



## Memorandum

**To:** Sunny Becker, Washington State Department of Ecology  
**Copies:** Bob Code, Fox Ave Building LLC, Tom Colligan, Floyd|Snider  
**From:** Tom McKeon, CALIBRE  
**Date:** August 29, 2019  
**Project:** Fox Avenue Site

### **Re: Technical Memorandum Summarizing June 2019 Site Wide Sampling for the Fox Avenue Site**

This Tech Memo provides a short summary of the most recent sampling completed at the Fox Avenue Site. The data presented herein is intended as supplemental information to support the ongoing 5-year review. Site-wide groundwater monitoring was completed in June 2019 and these results are summarized in the attached tables and figures.

Previous monitoring in May 2018 indicated a significant number of wells throughout the site with reduced total total chlorinated volatile organic compounds (CVOC) concentrations. The 2019 sample list was adjusted to focus on the remaining wells with elevated CVOC concentrations, as those locations are essential to remedial optimization of the continued remedial actions. The recent data show all wells but one well are below the remediation level (RL) of 250 µg/L total CVOCs; source area well R0-IW2D is still above the RL with 365 µg/L total CVOCs. The seep data show concentrations near the cleanup level (CUL) of 2.4 µg/L for vinyl chloride (VC), with SP-03 at 2.88 µg/L VC and SP-03b at 3.89 µg/L VC.

The summary of June 2019 sampling is presented in Table 1 and Figure 2. The sampling data from the seeps over the last several years is presented in Figures 3 and 4. The laboratory results for the June 2019 sampling are attached.

Table 1 - Performance Monitoring Results June 2019  
 Fox Avenue

	WBZ	Sample Depth (ft bgs)	Analyte	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Total CVOCs	TOC
Location			Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
<b>Source Area</b>										
R0-IW02D	2nd	62	6/5/2019	2.46	10	150 D	<1 U	203 D	365	3,480 D
MW-18S	1st	18	6/5/2019	<1 U	<0.5 U	8.28	<1 U	17.6	25.9	
DUP02 (MW18S)	1st	18	6/5/2019	<1 U	<0.5 U	6.82	<1 U	16.2	23.0	
<b>Whitehead</b>										
MW-9	1st	11	6/4/2019	<1 U	<0.5 U	1.15	1.11	<0.2 U	2.26	22.1 D
MW-7	1st	12	6/4/2019	<1 U	<0.5 U	29.5	<1 U	20.3	49.8	
B-49	1st	13.5	6/4/2019	<1 U	<0.5 U	4.93	<1 U	7.43	12.4	
<b>Northwest Corner</b>										
NW1-1	1st	11	6/5/2019	<1 U	<0.5 U	41.2 D	<1 U	22	63.2	--
B-22	1st	10	6/5/2019	7.44	8.07	116 D	<1 U	12.5	144	--
<b>Row 1 IWs</b>										
R1-IW4a	1st	11	6/4/2019	<1 U	1.93	7.12	<1 U	8.45	17.5	7.2 D
B-20a	1st	14	6/4/2019	<1 U	<0.5 U	2.46	<1 U	4.97	7.43	--
B-19	2nd	45	6/4/2019	<1 U	<0.5 U	46.5 D	<1 U	10.9	57.4	
<b>Row 1 MWs</b>										
B-58	1st	11	6/5/2019	12.5	2.66	5.88	<1 U	5.03	26.1	--
<b>In SBW</b>										
R2-IW1	1st	17	6/4/2019	<1 U	<0.5 U	<1 U	<1 U	<0.2 U	ND	2,030 D
R2-IW1	2nd	45	6/4/2019	<1 U	<0.5 U	<1 U	<1 U	<0.2 U	ND	2,120 D
DUP01(R2IW1@45)	2nd	45	6/4/2019	<1 U	<0.5 U	<1 U	<1 U	<0.2 U	ND	--
MW-6	2nd	40	6/4/2019	17	11.5	48 D	<1 U	<0.2 U	76.5	--
<b>Myrtle St</b>										
B-35	2nd	27	6/4/2019	<1 U	<0.5 U	<1 U	<1 U	0.501	0.501	--
B-64	1st	10	6/4/2019	<1 U	<0.5 U	4.55	<1 U	4.56	9.11	--
B-33a	2nd	30	6/4/2019	<1 U	<0.5 U	<1 U	<1 U	<0.2 U	ND	--
<b>Embayment Seeps</b>										
SP-03	--	--	6/4/2019	<1 U	<0.5 U	2.46	<1 U	2.88	5.34	--
SP-03b	--	--	6/4/2019	<1 U	<0.5 U	5.96	<1 U	3.89	9.85	--

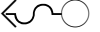




Abbreviations:

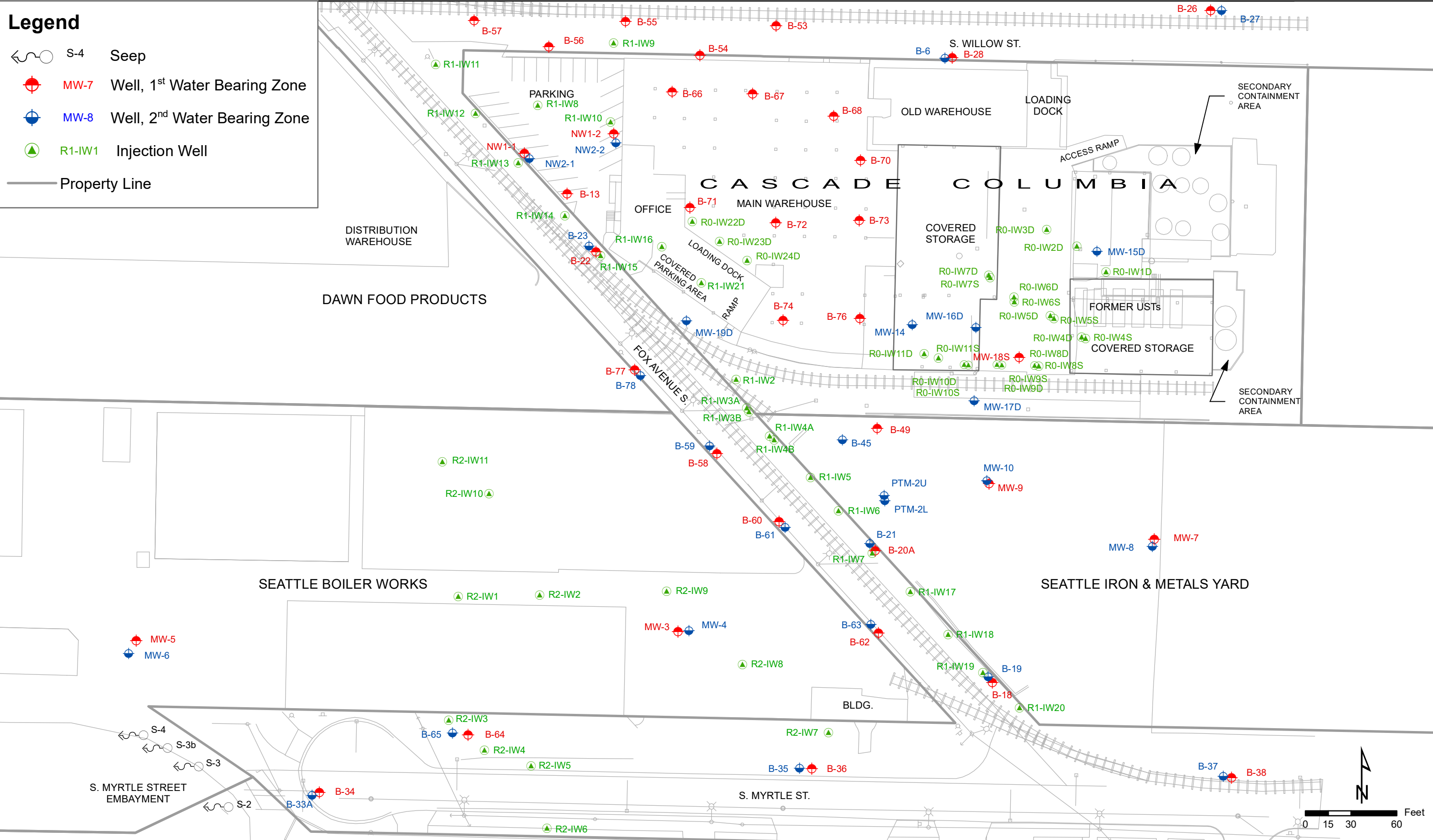
- Not analyzed
- PCE Tetrachloroethene
- TCE Trichloroethene
- DCE Dichloroethene
- TOC Total Organic Carbon
- µg/L Micrograms per liter
- ND non-detect

Qualifiers:

- U Analyte was not detected, concentration given is the reporting limit.

**Legend**

-  S-4 Seep
-  MW-7 Well, 1<sup>st</sup> Water Bearing Zone
-  MW-8 Well, 2<sup>nd</sup> Water Bearing Zone
-  R1-IW1 Injection Well
-  Property Line



**2019 Monitoring Summary  
Fox Avenue Site  
Seattle, Washington**

Figure 1  
Site Plan

C:\Users\justin.neste\Desktop\GIS\FOX AVE\2019\Figure 1.1 Site Plan.mxd  
8/29/2019

**Legend**  
**Total CVOCs (µg/L)**

- 0-1
- 1-10
- 10-100
- 100-1,000

**Notes:**

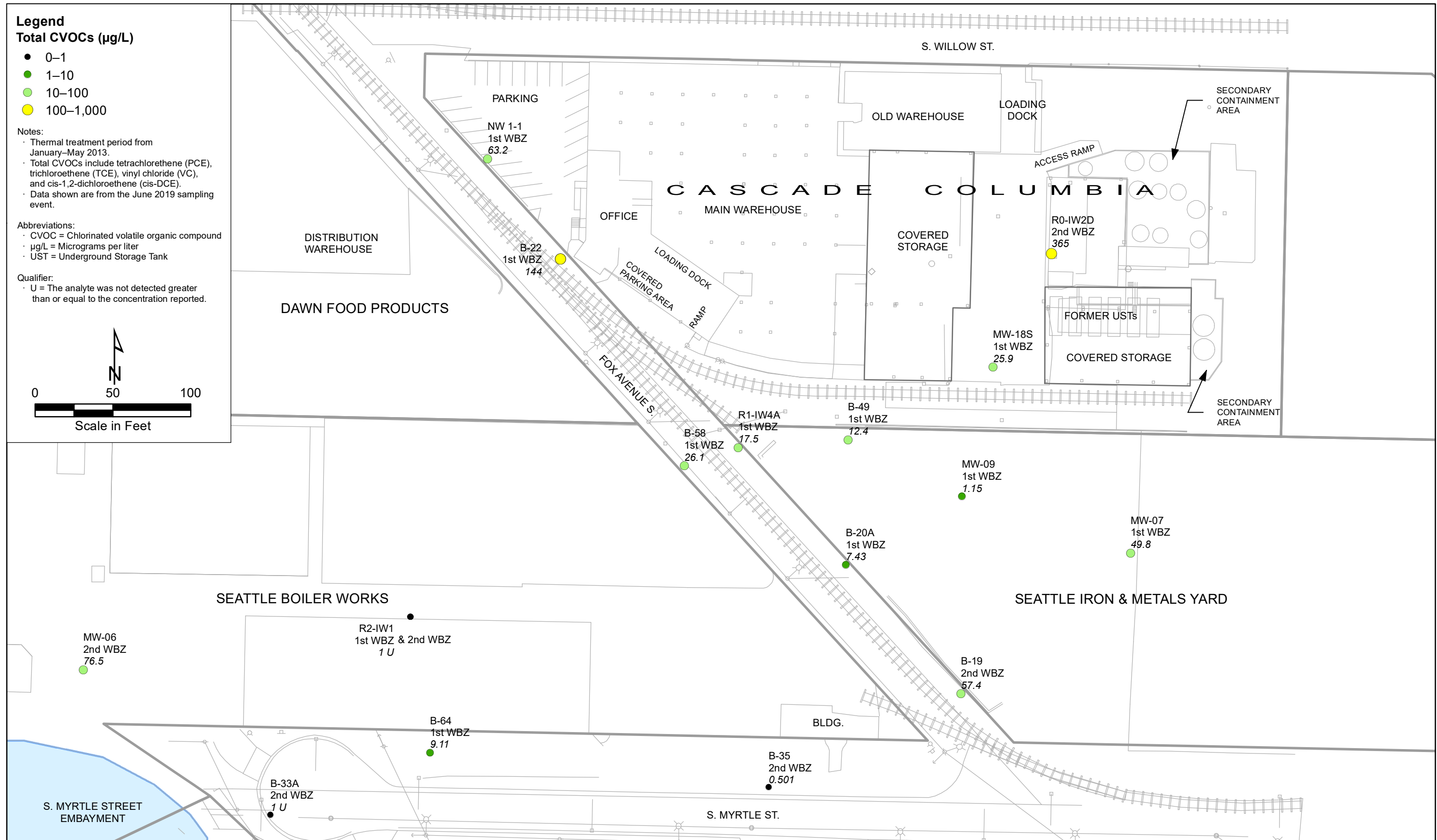
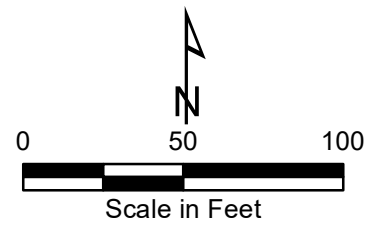
- Thermal treatment period from January-May 2013.
- Total CVOCs include tetrachlorethene (PCE), trichloroethene (TCE), vinyl chloride (VC), and cis-1,2-dichloroethene (cis-DCE).
- Data shown are from the June 2019 sampling event.

**Abbreviations:**

- CVOC = Chlorinated volatile organic compound
- µg/L = Micrograms per liter
- UST = Underground Storage Tank

**Qualifier:**

- U = The analyte was not detected greater than or equal to the concentration reported.



**2019 Monitoring Summary**  
**Fox Avenue Site**  
**Seattle, Washington**

**Figure 2**  
**Total CVOCs Concentrations in Groundwater**  
**1st and 2nd Water Bearing Zones**  
**June 2019**

Figure 3

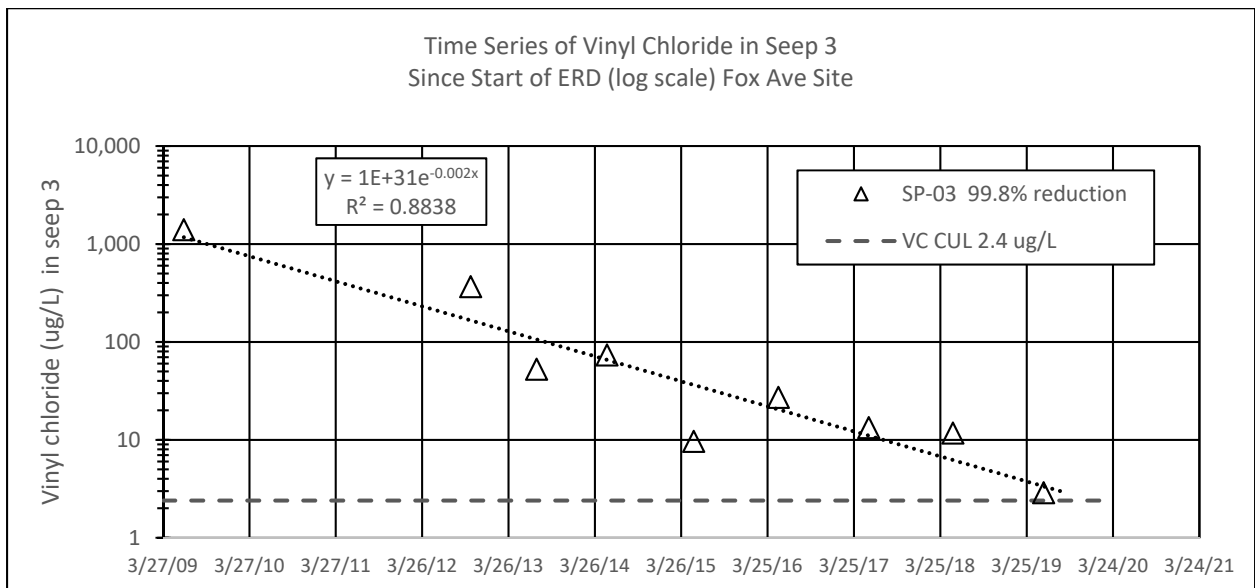
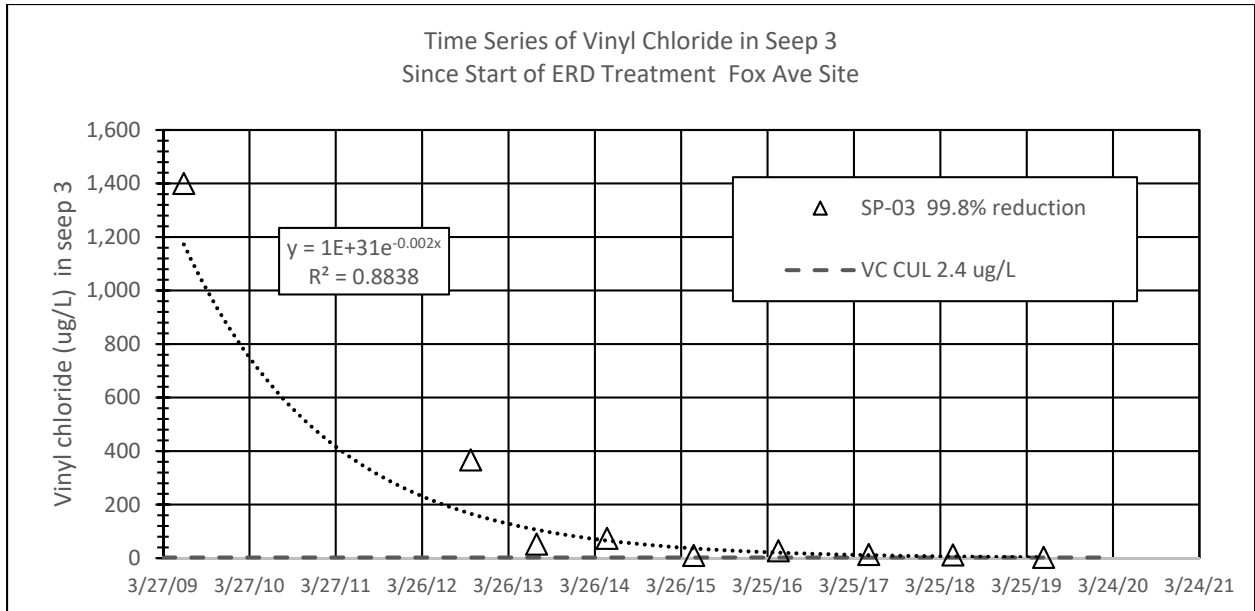
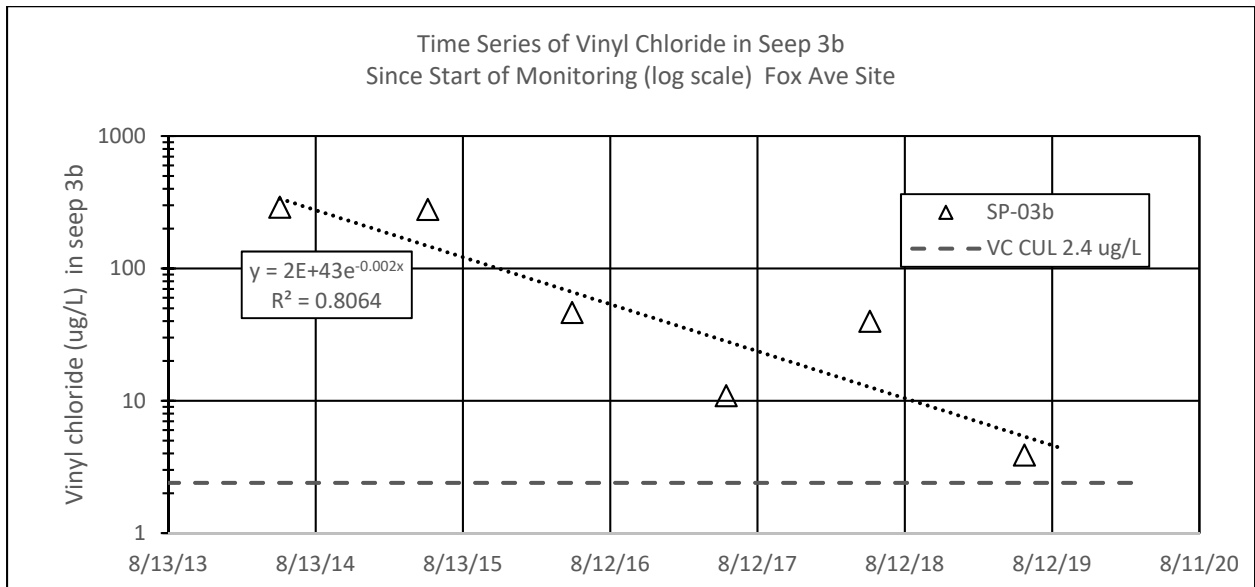
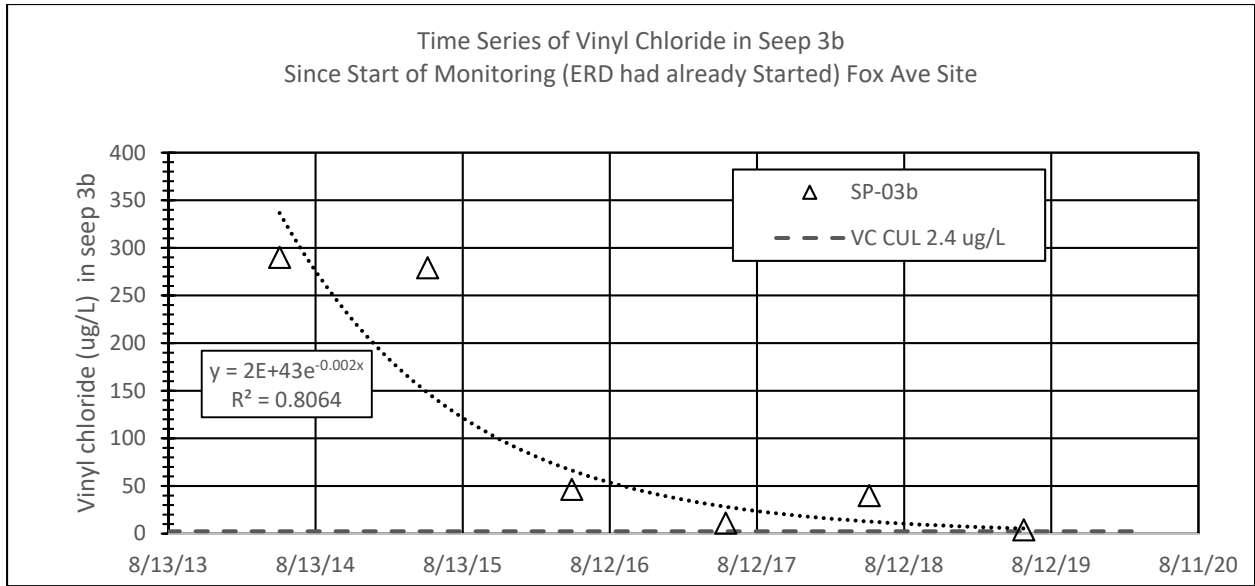


Figure 4



## Laboratory results from the June 2019 sampling



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Calibre Systems**  
Tom McKeon  
16935 SE 39th St.  
Bellevue, WA 98008

**RE: Fox Avenue**  
**Work Order Number: 1906054**

June 12, 2019

**Attention Tom McKeon:**

Fremont Analytical, Inc. received 22 sample(s) on 6/5/2019 for the analyses presented in the following report.

***Total Organic Carbon by SM 5310C***  
***Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike C. Ridgeway", written in a cursive style.

Mike Ridgeway  
Laboratory Director

**CC:**  
Justin Neste  
Rune Lassen

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005  
ORELAP Certification: WA 100009-007 (NELAP Recognized)



**CLIENT:** Calibre Systems  
**Project:** Fox Avenue  
**Work Order:** 1906054

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906054-001	DUP01-060419	06/04/2019 8:00 AM	06/05/2019 12:30 PM
1906054-002	MW-06-06042019	06/04/2019 9:38 AM	06/05/2019 12:30 PM
1906054-003	R2-IW1-17-060419	06/04/2019 10:14 AM	06/05/2019 12:30 PM
1906054-004	B33A-06042019	06/04/2019 10:42 AM	06/05/2019 12:30 PM
1906054-005	R2-IW1-45-060419	06/04/2019 10:49 AM	06/05/2019 12:30 PM
1906054-006	B-64-06042019	06/04/2019 11:20 AM	06/05/2019 12:30 PM
1906054-007	B-35-060419	06/04/2019 12:03 PM	06/05/2019 12:30 PM
1906054-008	SP-03-06042019	06/04/2019 12:15 PM	06/05/2019 12:30 PM
1906054-009	SP-3B-06042019	06/04/2019 12:20 PM	06/05/2019 12:30 PM
1906054-010	B-49-06042019	06/04/2019 2:05 PM	06/05/2019 12:30 PM
1906054-011	B-19-060419	06/04/2019 2:25 PM	06/05/2019 12:30 PM
1906054-012	MW-9-06042019	06/04/2019 2:38 PM	06/05/2019 12:30 PM
1906054-013	B-20A-060419	06/04/2019 3:05 PM	06/05/2019 12:30 PM
1906054-014	MW-7-06042019	06/04/2019 3:30 PM	06/05/2019 12:30 PM
1906054-015	RI-IW4A-060419	06/04/2019 4:00 PM	06/05/2019 12:30 PM
1906054-016	B-58-06052019	06/05/2019 8:15 AM	06/05/2019 12:30 PM
1906054-017	B-22-060519	06/05/2019 8:45 AM	06/05/2019 12:30 PM
1906054-018	NW1-1-060519	06/05/2019 10:25 AM	06/05/2019 12:30 PM
1906054-019	RO-IW2D-06052019	06/05/2019 10:38 AM	06/05/2019 12:30 PM
1906054-020	MW-18S-06052019	06/05/2019 11:20 AM	06/05/2019 12:30 PM
1906054-021	DUP02-06052019	06/05/2019 12:00 PM	06/05/2019 12:30 PM
1906054-022	Trip Blank	04/26/2019 4:00 PM	06/05/2019 12:30 PM

**CLIENT:** Calibre Systems

**Project:** Fox Avenue

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 8:00:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-001

**Matrix:** Water

**Client Sample ID:** DUP01-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24821

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/7/2019 1:57:20 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
Acetone	ND	5.00		µg/L	1	6/7/2019 1:57:20 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
(MEK) 2-Butanone	375	50.0	D	µg/L	10	6/7/2019 1:40:57 PM
Benzene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/7/2019 1:57:20 AM
Toluene	229	10.0	D	µg/L	10	6/7/2019 1:40:57 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
Ethylbenzene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
m,p-Xylene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
o-Xylene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/7/2019 1:57:20 AM
Naphthalene	ND	1.00		µg/L	1	6/7/2019 2:11:09 PM
Surr: Dibromofluoromethane	97.5	45.4 - 152		%Rec	1	6/7/2019 1:57:20 AM
Surr: Toluene-d8	90.5	40.1 - 139		%Rec	1	6/7/2019 1:57:20 AM
Surr: 1-Bromo-4-fluorobenzene	105	64.2 - 128		%Rec	1	6/7/2019 1:57:20 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 9:38:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-002

**Matrix:** Water

**Client Sample ID:** MW-06-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/11/2019 1:17:12 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 1:17:12 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
cis-1,2-Dichloroethene	48.0	10.0	D	µg/L	10	6/10/2019 5:09:02 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 1:17:12 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
Trichloroethene (TCE)	11.5	0.500		µg/L	1	6/11/2019 1:17:12 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
Tetrachloroethene (PCE)	17.0	1.00		µg/L	1	6/11/2019 1:17:12 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 1:17:12 AM
Surr: Dibromofluoromethane	97.3	45.4 - 152		%Rec	1	6/11/2019 1:17:12 AM
Surr: Toluene-d8	92.6	40.1 - 139		%Rec	1	6/11/2019 1:17:12 AM
Surr: 1-Bromo-4-fluorobenzene	93.7	64.2 - 128		%Rec	1	6/11/2019 1:17:12 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 10:14:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-003

**Matrix:** Water

**Client Sample ID:** R2-IW1-17-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/11/2019 5:49:52 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 5:49:52 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
(MEK) 2-Butanone	506	100	D	µg/L	20	6/10/2019 3:36:56 PM
Benzene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 5:49:52 AM
Toluene	222	20.0	D	µg/L	20	6/10/2019 3:36:56 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 5:49:52 AM
1,2,4-Trimethylbenzene	2.51	1.00		µg/L	1	6/11/2019 5:49:52 AM
Naphthalene	4.48	1.00		µg/L	1	6/11/2019 5:49:52 AM
Surr: Dibromofluoromethane	95.9	45.4 - 152		%Rec	1	6/11/2019 5:49:52 AM
Surr: Toluene-d8	93.7	40.1 - 139		%Rec	1	6/11/2019 5:49:52 AM
Surr: 1-Bromo-4-fluorobenzene	105	64.2 - 128		%Rec	1	6/11/2019 5:49:52 AM

**Total Organic Carbon by SM 5310C**

Batch ID: R52011

Analyst: GM

Total Organic Carbon	2,030	50.0	D	mg/L	100	6/7/2019 11:50:00 AM
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**Client:** Calibre Systems

**Collection Date:** 6/4/2019 10:42:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-004

**Matrix:** Water

**Client Sample ID:** B33A-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/10/2019 10:32:45 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
Acetone	ND	5.00		µg/L	1	6/10/2019 10:32:45 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
1,1-Dichloroethane	2.01	1.00		µg/L	1	6/10/2019 10:32:45 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 10:32:45 AM
Benzene	7.09	1.00		µg/L	1	6/10/2019 10:32:45 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 10:32:45 AM
Toluene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 10:32:45 AM
Surr: Dibromofluoromethane	98.2	45.4 - 152		%Rec	1	6/10/2019 10:32:45 AM
Surr: Toluene-d8	95.3	40.1 - 139		%Rec	1	6/10/2019 10:32:45 AM
Surr: 1-Bromo-4-fluorobenzene	90.8	64.2 - 128		%Rec	1	6/10/2019 10:32:45 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 10:49:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-005

**Matrix:** Water

**Client Sample ID:** R2-IW1-45-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/11/2019 6:20:09 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 6:20:09 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
(MEK) 2-Butanone	515	100	D	µg/L	20	6/10/2019 4:07:38 PM
Benzene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 6:20:09 AM
Toluene	253	20.0	D	µg/L	20	6/10/2019 4:07:38 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 6:20:09 AM
Surr: Dibromofluoromethane	96.6	45.4 - 152		%Rec	1	6/11/2019 6:20:09 AM
Surr: Toluene-d8	87.5	40.1 - 139		%Rec	1	6/11/2019 6:20:09 AM
Surr: 1-Bromo-4-fluorobenzene	111	64.2 - 128		%Rec	1	6/11/2019 6:20:09 AM

**Total Organic Carbon by SM 5310C**

Batch ID: R52011

Analyst: GM

Total Organic Carbon	2,120	50.0	D	mg/L	100	6/7/2019 12:11:00 PM
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**Client:** Calibre Systems

**Collection Date:** 6/4/2019 11:20:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-006

**Matrix:** Water

**Client Sample ID:** B-64-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	4.56	0.200		µg/L	1	6/10/2019 11:03:06 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Acetone	ND	5.00		µg/L	1	6/10/2019 11:03:06 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
cis-1,2-Dichloroethene	4.55	1.00		µg/L	1	6/10/2019 11:03:06 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 11:03:06 AM
Benzene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 11:03:06 AM
Toluene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 11:03:06 AM
Surr: Dibromofluoromethane	102	45.4 - 152		%Rec	1	6/10/2019 11:03:06 AM
Surr: Toluene-d8	96.1	40.1 - 139		%Rec	1	6/10/2019 11:03:06 AM
Surr: 1-Bromo-4-fluorobenzene	92.9	64.2 - 128		%Rec	1	6/10/2019 11:03:06 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 12:03:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-007

**Matrix:** Water

**Client Sample ID:** B-35-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	0.501	0.200		µg/L	1	6/10/2019 11:33:18 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
Acetone	ND	5.00		µg/L	1	6/10/2019 11:33:18 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 11:33:18 AM
Benzene	1.84	1.00		µg/L	1	6/10/2019 11:33:18 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 11:33:18 AM
Toluene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 11:33:18 AM
Surr: Dibromofluoromethane	102	45.4 - 152		%Rec	1	6/10/2019 11:33:18 AM
Surr: Toluene-d8	97.7	40.1 - 139		%Rec	1	6/10/2019 11:33:18 AM
Surr: 1-Bromo-4-fluorobenzene	93.6	64.2 - 128		%Rec	1	6/10/2019 11:33:18 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 12:15:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-008

**Matrix:** Water

**Client Sample ID:** SP-03-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	2.88	0.200		µg/L	1	6/10/2019 12:03:39 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
Acetone	ND	5.00		µg/L	1	6/10/2019 12:03:39 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
1,1-Dichloroethane	1.07	1.00		µg/L	1	6/10/2019 12:03:39 PM
cis-1,2-Dichloroethene	2.46	1.00		µg/L	1	6/10/2019 12:03:39 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 12:03:39 PM
Benzene	3.96	1.00		µg/L	1	6/10/2019 12:03:39 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 12:03:39 PM
Toluene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 12:03:39 PM
Naphthalene	1.14	1.00		µg/L	1	6/10/2019 12:03:39 PM
Surr: Dibromofluoromethane	100	45.4 - 152		%Rec	1	6/10/2019 12:03:39 PM
Surr: Toluene-d8	97.2	40.1 - 139		%Rec	1	6/10/2019 12:03:39 PM
Surr: 1-Bromo-4-fluorobenzene	92.0	64.2 - 128		%Rec	1	6/10/2019 12:03:39 PM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 12:20:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-009

**Matrix:** Water

**Client Sample ID:** SP-3B-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	3.89	0.200		µg/L	1	6/11/2019 1:47:28 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 1:47:28 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
cis-1,2-Dichloroethene	5.96	1.00		µg/L	1	6/11/2019 1:47:28 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 1:47:28 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 1:47:28 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 1:47:28 AM
Surr: Dibromofluoromethane	93.8	45.4 - 152		%Rec	1	6/11/2019 1:47:28 AM
Surr: Toluene-d8	96.3	40.1 - 139		%Rec	1	6/11/2019 1:47:28 AM
Surr: 1-Bromo-4-fluorobenzene	90.5	64.2 - 128		%Rec	1	6/11/2019 1:47:28 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 2:05:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-010

**Matrix:** Water

**Client Sample ID:** B-49-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	7.43	0.200		µg/L	1	6/11/2019 2:17:39 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 2:17:39 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
cis-1,2-Dichloroethene	4.93	1.00		µg/L	1	6/11/2019 2:17:39 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 2:17:39 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 2:17:39 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 2:17:39 AM
Surr: Dibromofluoromethane	107	45.4 - 152		%Rec	1	6/11/2019 2:17:39 AM
Surr: Toluene-d8	88.6	40.1 - 139		%Rec	1	6/11/2019 2:17:39 AM
Surr: 1-Bromo-4-fluorobenzene	93.4	64.2 - 128		%Rec	1	6/11/2019 2:17:39 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 2:25:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-011

**Matrix:** Water

**Client Sample ID:** B-19-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	10.9	0.200		µg/L	1	6/10/2019 1:34:42 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Acetone	ND	5.00		µg/L	1	6/10/2019 1:34:42 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
cis-1,2-Dichloroethene	46.5	10.0	D	µg/L	10	6/10/2019 8:13:16 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 1:34:42 PM
Benzene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 1:34:42 PM
Toluene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 1:34:42 PM
Surr: Dibromofluoromethane	98.8	45.4 - 152		%Rec	1	6/10/2019 1:34:42 PM
Surr: Toluene-d8	97.8	40.1 - 139		%Rec	1	6/10/2019 1:34:42 PM
Surr: 1-Bromo-4-fluorobenzene	87.4	64.2 - 128		%Rec	1	6/10/2019 1:34:42 PM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 2:38:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-012

**Matrix:** Water

**Client Sample ID:** MW-9-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	ND	0.200		µg/L	1	6/11/2019 6:50:30 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 6:50:30 AM
trans-1,2-Dichloroethene	1.11	1.00		µg/L	1	6/11/2019 6:50:30 AM
1,1-Dichloroethane	1.44	1.00		µg/L	1	6/11/2019 6:50:30 AM
cis-1,2-Dichloroethene	1.15	1.00		µg/L	1	6/11/2019 6:50:30 AM
(MEK) 2-Butanone	17.2	5.00		µg/L	1	6/11/2019 6:50:30 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 6:50:30 AM
Toluene	3.72	1.00		µg/L	1	6/11/2019 6:50:30 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
Ethylbenzene	1.01	1.00		µg/L	1	6/11/2019 6:50:30 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
o-Xylene	1.14	1.00		µg/L	1	6/11/2019 6:50:30 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 6:50:30 AM
Surr: Dibromofluoromethane	100	45.4 - 152		%Rec	1	6/11/2019 6:50:30 AM
Surr: Toluene-d8	103	40.1 - 139		%Rec	1	6/11/2019 6:50:30 AM
Surr: 1-Bromo-4-fluorobenzene	95.3	64.2 - 128		%Rec	1	6/11/2019 6:50:30 AM

**Total Organic Carbon by SM 5310C**

Batch ID: R52011

Analyst: GM

Total Organic Carbon	22.1	0.500		mg/L	1	6/6/2019 6:20:00 PM
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**Client:** Calibre Systems

**Collection Date:** 6/4/2019 3:05:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-013

**Matrix:** Water

**Client Sample ID:** B-20A-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	4.97	0.200		µg/L	1	6/10/2019 12:33:56 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Acetone	ND	5.00		µg/L	1	6/10/2019 12:33:56 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
cis-1,2-Dichloroethene	2.46	1.00		µg/L	1	6/10/2019 12:33:56 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 12:33:56 PM
Benzene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/10/2019 12:33:56 PM
Toluene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 12:33:56 PM
Surr: Dibromofluoromethane	101	45.4 - 152		%Rec	1	6/10/2019 12:33:56 PM
Surr: Toluene-d8	97.2	40.1 - 139		%Rec	1	6/10/2019 12:33:56 PM
Surr: 1-Bromo-4-fluorobenzene	90.1	64.2 - 128		%Rec	1	6/10/2019 12:33:56 PM





**Client:** Calibre Systems

**Collection Date:** 6/4/2019 3:30:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-014

**Matrix:** Water

**Client Sample ID:** MW-7-06042019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	20.3	0.200		µg/L	1	6/11/2019 2:47:58 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 2:47:58 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
cis-1,2-Dichloroethene	29.5	1.00		µg/L	1	6/11/2019 2:47:58 AM
(MEK) 2-Butanone	9.08	5.00		µg/L	1	6/11/2019 2:47:58 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 2:47:58 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 2:47:58 AM
Surr: Dibromofluoromethane	94.1	45.4 - 152		%Rec	1	6/11/2019 2:47:58 AM
Surr: Toluene-d8	95.2	40.1 - 139		%Rec	1	6/11/2019 2:47:58 AM
Surr: 1-Bromo-4-fluorobenzene	88.3	64.2 - 128		%Rec	1	6/11/2019 2:47:58 AM



**Client:** Calibre Systems

**Collection Date:** 6/4/2019 4:00:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-015

**Matrix:** Water

**Client Sample ID:** RI-IW4A-060419

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	8.45	0.200		µg/L	1	6/10/2019 1:04:16 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Acetone	ND	5.00		µg/L	1	6/10/2019 1:04:16 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
cis-1,2-Dichloroethene	7.12	1.00		µg/L	1	6/10/2019 1:04:16 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/10/2019 1:04:16 PM
Benzene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Trichloroethene (TCE)	1.93	0.500		µg/L	1	6/10/2019 1:04:16 PM
Toluene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Ethylbenzene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
m,p-Xylene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
o-Xylene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Naphthalene	ND	1.00		µg/L	1	6/10/2019 1:04:16 PM
Surr: Dibromofluoromethane	103	45.4 - 152		%Rec	1	6/10/2019 1:04:16 PM
Surr: Toluene-d8	99.1	40.1 - 139		%Rec	1	6/10/2019 1:04:16 PM
Surr: 1-Bromo-4-fluorobenzene	91.1	64.2 - 128		%Rec	1	6/10/2019 1:04:16 PM

**Total Organic Carbon by SM 5310C**

Batch ID: R52011

Analyst: GM

Total Organic Carbon	7.18	0.500		mg/L	1	6/6/2019 8:00:00 PM
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**Client:** Calibre Systems

**Collection Date:** 6/5/2019 8:15:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-016

**Matrix:** Water

**Client Sample ID:** B-58-06052019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	5.03	0.200		µg/L	1	6/11/2019 3:18:19 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 3:18:19 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
cis-1,2-Dichloroethene	5.88	1.00		µg/L	1	6/11/2019 3:18:19 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 3:18:19 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
Trichloroethene (TCE)	2.66	0.500		µg/L	1	6/11/2019 3:18:19 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
Tetrachloroethene (PCE)	12.5	1.00		µg/L	1	6/11/2019 3:18:19 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 3:18:19 AM
Surr: Dibromofluoromethane	98.2	45.4 - 152		%Rec	1	6/11/2019 3:18:19 AM
Surr: Toluene-d8	96.3	40.1 - 139		%Rec	1	6/11/2019 3:18:19 AM
Surr: 1-Bromo-4-fluorobenzene	90.5	64.2 - 128		%Rec	1	6/11/2019 3:18:19 AM



**Client:** Calibre Systems

**Collection Date:** 6/5/2019 8:45:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-017

**Matrix:** Water

**Client Sample ID:** B-22-060519

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	12.5	0.200		µg/L	1	6/11/2019 7:20:42 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 7:20:42 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
cis-1,2-Dichloroethene	116	10.0	D	µg/L	10	6/10/2019 5:39:54 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 7:20:42 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
Trichloroethene (TCE)	8.07	0.500		µg/L	1	6/11/2019 7:20:42 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
Tetrachloroethene (PCE)	7.44	1.00		µg/L	1	6/11/2019 7:20:42 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 7:20:42 AM
Surr: Dibromofluoromethane	99.9	45.4 - 152		%Rec	1	6/11/2019 7:20:42 AM
Surr: Toluene-d8	96.2	40.1 - 139		%Rec	1	6/11/2019 7:20:42 AM
Surr: 1-Bromo-4-fluorobenzene	95.4	64.2 - 128		%Rec	1	6/11/2019 7:20:42 AM



**Client:** Calibre Systems

**Collection Date:** 6/5/2019 10:25:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-018

**Matrix:** Water

**Client Sample ID:** NW1-1-060519

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	22.0	0.200		µg/L	1	6/11/2019 3:48:36 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 3:48:36 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
cis-1,2-Dichloroethene	41.2	10.0	D	µg/L	10	6/10/2019 11:46:26 PM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 3:48:36 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 3:48:36 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 3:48:36 AM
Surr: Dibromofluoromethane	93.2	45.4 - 152		%Rec	1	6/11/2019 3:48:36 AM
Surr: Toluene-d8	95.0	40.1 - 139		%Rec	1	6/11/2019 3:48:36 AM
Surr: 1-Bromo-4-fluorobenzene	85.1	64.2 - 128		%Rec	1	6/11/2019 3:48:36 AM



**Client:** Calibre Systems

**Collection Date:** 6/5/2019 10:38:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-019

**Matrix:** Water

**Client Sample ID:** RO-IW2D-06052019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	203	20.0	D	µg/L	100	6/10/2019 2:05:09 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
Acetone	389	500	QJD	µg/L	100	6/10/2019 2:05:09 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
cis-1,2-Dichloroethene	150	100	D	µg/L	100	6/10/2019 2:05:09 PM
(MEK) 2-Butanone	553	500	D	µg/L	100	6/10/2019 2:05:09 PM
Benzene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
Trichloroethene (TCE)	10.0	0.500		µg/L	1	6/11/2019 8:21:16 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
Tetrachloroethene (PCE)	2.46	1.00		µg/L	1	6/11/2019 8:21:16 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 8:21:16 AM
Surr: Dibromofluoromethane	98.5	45.4 - 152		%Rec	1	6/11/2019 8:21:16 AM
Surr: Toluene-d8	98.2	40.1 - 139		%Rec	1	6/11/2019 8:21:16 AM
Surr: 1-Bromo-4-fluorobenzene	106	64.2 - 128		%Rec	1	6/11/2019 8:21:16 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

**Total Organic Carbon by SM 5310C**

Batch ID: R52011

Analyst: GM

Total Organic Carbon	3,480	50.0	D	mg/L	100	6/7/2019 12:33:00 PM
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**Client:** Calibre Systems

**Collection Date:** 6/5/2019 11:20:00 AM

**Project:** Fox Avenue

**Lab ID:** 1906054-020

**Matrix:** Water

**Client Sample ID:** MW-18S-06052019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	17.6	0.200		µg/L	1	6/11/2019 7:51:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 7:51:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
1,1-Dichloroethane	3.10	1.00		µg/L	1	6/11/2019 7:51:00 AM
cis-1,2-Dichloroethene	8.28	1.00		µg/L	1	6/11/2019 7:51:00 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 7:51:00 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 7:51:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
m,p-Xylene	1.44	1.00		µg/L	1	6/11/2019 7:51:00 AM
o-Xylene	1.30	1.00		µg/L	1	6/11/2019 7:51:00 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 7:51:00 AM
Surr: Dibromofluoromethane	99.0	45.4 - 152		%Rec	1	6/11/2019 7:51:00 AM
Surr: Toluene-d8	96.5	40.1 - 139		%Rec	1	6/11/2019 7:51:00 AM
Surr: 1-Bromo-4-fluorobenzene	95.4	64.2 - 128		%Rec	1	6/11/2019 7:51:00 AM



**Client:** Calibre Systems

**Collection Date:** 6/5/2019 12:00:00 PM

**Project:** Fox Avenue

**Lab ID:** 1906054-021

**Matrix:** Water

**Client Sample ID:** DUP02-06052019

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24843

Analyst: CR

Vinyl chloride	16.2	0.200		µg/L	1	6/11/2019 4:19:02 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Acetone	ND	5.00		µg/L	1	6/11/2019 4:19:02 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
1,1-Dichloroethane	2.87	1.00		µg/L	1	6/11/2019 4:19:02 AM
cis-1,2-Dichloroethene	6.82	1.00		µg/L	1	6/11/2019 4:19:02 AM
(MEK) 2-Butanone	ND	5.00		µg/L	1	6/11/2019 4:19:02 AM
Benzene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/11/2019 4:19:02 AM
Toluene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
m,p-Xylene	1.27	1.00		µg/L	1	6/11/2019 4:19:02 AM
o-Xylene	1.08	1.00		µg/L	1	6/11/2019 4:19:02 AM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Naphthalene	ND	1.00		µg/L	1	6/11/2019 4:19:02 AM
Surr: Dibromofluoromethane	98.9	45.4 - 152		%Rec	1	6/11/2019 4:19:02 AM
Surr: Toluene-d8	96.5	40.1 - 139		%Rec	1	6/11/2019 4:19:02 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	64.2 - 128		%Rec	1	6/11/2019 4:19:02 AM





Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: LCS-24821	SampType: LCS	Units: µg/L			Prep Date: 6/6/2019	RunNo: 51934					
Client ID: LCSW	Batch ID: 24821				Analysis Date: 6/6/2019	SeqNo: 1024866					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	23.0	0.200	20.00	0	115	48	145				
1,1-Dichloroethene	20.8	1.00	20.00	0	104	57.5	150				
Acetone	51.9	5.00	50.00	0	104	33.7	168				
trans-1,2-Dichloroethene	19.7	1.00	20.00	0	98.4	71.7	129				
1,1-Dichloroethane	18.3	1.00	20.00	0	91.5	67.9	134				
cis-1,2-Dichloroethene	19.0	1.00	20.00	0	95.0	70.2	139				
(MEK) 2-Butanone	48.5	5.00	50.00	0	96.9	35.9	186				
Benzene	19.7	1.00	20.00	0	98.4	69.3	132				
Trichloroethene (TCE)	19.7	0.500	20.00	0	98.7	65.2	136				
Toluene	20.4	1.00	20.00	0	102	61.3	145				
Tetrachloroethene (PCE)	20.2	1.00	20.00	0	101	47.5	147				
Ethylbenzene	20.2	1.00	20.00	0	101	72	130				
m,p-Xylene	40.4	1.00	40.00	0	101	70.3	134				
o-Xylene	20.0	1.00	20.00	0	100	62	125				
1,2,4-Trimethylbenzene	19.8	1.00	20.00	0	99.1	73.4	127				
Naphthalene	19.5	1.00	20.00	0	97.7	41.8	165				
Surr: Dibromofluoromethane	24.1		25.00		96.3	45.4	152				
Surr: Toluene-d8	24.7		25.00		98.8	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	64.2	128				

Sample ID: LCS-24821	SampType: LCS	Units: µg/L			Prep Date: 6/6/2019	RunNo: 51934					
Client ID: LCSW02	Batch ID: 24821				Analysis Date: 6/6/2019	SeqNo: 1024867					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	21.7	0.200	20.00	0	109	48	145	22.99	5.67	20	
1,1-Dichloroethene	19.7	1.00	20.00	0	98.7	57.5	150	20.76	5.04	20	
Acetone	51.2	5.00	50.00	0	102	33.7	168	51.86	1.27	20	
trans-1,2-Dichloroethene	18.2	1.00	20.00	0	90.8	71.7	129	19.68	8.04	20	
1,1-Dichloroethane	17.7	1.00	20.00	0	88.5	67.9	134	18.30	3.37	20	
cis-1,2-Dichloroethene	18.6	1.00	20.00	0	92.9	70.2	139	19.00	2.22	20	

Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS D-24821</b>	SampType: <b>LCS D</b>	Units: <b>µg/L</b>				Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>				
Client ID: <b>LCSW02</b>	Batch ID: <b>24821</b>					Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024867</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
(MEK) 2-Butanone	48.7	5.00	50.00	0	97.3	35.9	186	48.46	0.397	20	
Benzene	19.1	1.00	20.00	0	95.3	69.3	132	19.68	3.25	20	
Trichloroethene (TCE)	18.9	0.500	20.00	0	94.3	65.2	136	19.74	4.54	20	
Toluene	19.8	1.00	20.00	0	98.9	61.3	145	20.38	2.96	20	
Tetrachloroethene (PCE)	19.8	1.00	20.00	0	99.1	47.5	147	20.18	1.74	20	
Ethylbenzene	19.6	1.00	20.00	0	97.8	72	130	20.16	2.99	20	
m,p-Xylene	38.9	1.00	40.00	0	97.4	70.3	134	40.42	3.72	20	
o-Xylene	19.6	1.00	20.00	0	98.0	62	125	20.04	2.19	20	
1,2,4-Trimethylbenzene	19.4	1.00	20.00	0	97.2	73.4	127	19.83	1.93	20	
Naphthalene	19.4	1.00	20.00	0	96.8	41.8	165	19.53	0.903	20	
Surr: Dibromofluoromethane	23.9		25.00		95.7	45.4	152		0		
Surr: Toluene-d8	24.8		25.00		99.2	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	25.9		25.00		104	64.2	128		0		

Sample ID: <b>MB-24821</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>24821</b>					Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024868</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	1.00									
Acetone	ND	5.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
(MEK) 2-Butanone	ND	5.00									
Benzene	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Ethylbenzene	ND	1.00									

**Work Order:** 1906054  
**CLIENT:** Calibre Systems  
**Project:** Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-24821</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>24821</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024868</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
Naphthalene	ND	1.00									Q
Surr: Dibromofluoromethane	22.5		25.00		89.9	45.4	152				
Surr: Toluene-d8	23.5		25.00		93.9	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	22.2		25.00		88.8	64.2	128				

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>1906023-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24821</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024848</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Acetone	ND	5.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
(MEK) 2-Butanone	ND	5.00						0		30	
Benzene	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
1,2,4-Trimethylbenzene	ND	1.00						0		30	
Naphthalene	ND	1.00						0		30	Q
Surr: Dibromofluoromethane	22.2		25.00		88.9	45.4	152		0		

Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>1906023-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24821</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024848</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	23.4		25.00		93.6	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	22.2		25.00		88.9	64.2	128		0		

**NOTES:**  
 Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>1906053-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51934</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24821</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024854</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Acetone	ND	5.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
(MEK) 2-Butanone	ND	5.00						0		30	
Benzene	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
1,2,4-Trimethylbenzene	ND	1.00						0		30	
Naphthalene	ND	1.00						0		30	Q
Surr: Dibromofluoromethane	23.5		25.00		93.9	45.4	152		0		
Surr: Toluene-d8	23.7		25.00		94.7	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	22.7		25.00		90.7	64.2	128		0		

**NOTES:**  
 Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-24843</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>24843</b>				Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026162</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.8	0.200	20.00	0	114	48	145				
1,1-Dichloroethene	19.6	1.00	20.00	0	97.9	57.5	150				
Acetone	50.7	5.00	50.00	0	101	33.7	168				
trans-1,2-Dichloroethene	17.7	1.00	20.00	0	88.3	71.7	129				
1,1-Dichloroethane	17.5	1.00	20.00	0	87.3	67.9	134				
cis-1,2-Dichloroethene	18.3	1.00	20.00	0	91.4	70.2	139				
(MEK) 2-Butanone	46.9	5.00	50.00	0	93.8	35.9	186				
Benzene	19.1	1.00	20.00	0	95.5	69.3	132				
Trichloroethene (TCE)	18.7	0.500	20.00	0	93.7	65.2	136				
Toluene	19.2	1.00	20.00	0	95.9	61.3	145				
Tetrachloroethene (PCE)	19.5	1.00	20.00	0	97.5	47.5	147				
Ethylbenzene	19.1	1.00	20.00	0	95.5	72	130				
m,p-Xylene	37.6	1.00	40.00	0	93.9	70.3	134				
o-Xylene	19.0	1.00	20.00	0	95.1	62	125				
1,2,4-Trimethylbenzene	18.8	1.00	20.00	0	94.1	73.4	127				
Naphthalene	17.1	1.00	20.00	0	85.3	41.8	165				
Surr: Dibromofluoromethane	23.9		25.00		95.6	45.4	152				
Surr: Toluene-d8	25.0		25.00		100	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	26.3		25.00		105	64.2	128				

Sample ID: <b>MB-24843</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>24843</b>				Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026163</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
Benzene	ND	1.00									

Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-24843</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026163</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
Naphthalene	ND	1.00									
Surr: Dibromofluoromethane	22.9		25.00		91.7	45.4	152				
Surr: Toluene-d8	24.2		25.00		96.8	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	22.2		25.00		88.9	64.2	128				

Sample ID: <b>1906054-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>R2-IW1-45-060419</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026126</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	4.00						0		30	D
1,1-Dichloroethene	ND	20.0						0		30	D
Acetone	ND	100						0		30	DQ
trans-1,2-Dichloroethene	ND	20.0						0		30	D
1,1-Dichloroethane	ND	20.0						0		30	D
cis-1,2-Dichloroethene	ND	20.0						0		30	D
(MEK) 2-Butanone	459	100						514.8	11.6	30	D
Benzene	ND	20.0						0		30	D
Trichloroethene (TCE)	ND	10.0						0		30	D
Toluene	240	20.0						253.3	5.30	30	D
Tetrachloroethene (PCE)	ND	20.0						0		30	D
Ethylbenzene	ND	20.0						0		30	D
m,p-Xylene	ND	20.0						0		30	D
o-Xylene	ND	20.0						0		30	D

**Work Order:** 1906054  
**CLIENT:** Calibre Systems  
**Project:** Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>1906054-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>R2-IW1-45-060419</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026126</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	20.0						0		30	D
Naphthalene	ND	20.0						0		30	D
Surr: Dibromofluoromethane	514		500.0		103	45.4	152		0		D
Surr: Toluene-d8	503		500.0		101	40.1	139		0		D
Surr: 1-Bromo-4-fluorobenzene	449		500.0		89.8	64.2	128		0		D

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>1906054-017AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>B-22-060519</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026148</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	265	2.00	200.0	10.13	127	41	165				D
1,1-Dichloroethene	214	10.0	200.0	0	107	51.6	164				D
Acetone	618	50.0	500.0	0	124	50.8	135				D
trans-1,2-Dichloroethene	189	10.0	200.0	0	94.3	63.5	138				D
1,1-Dichloroethane	185	10.0	200.0	0	92.5	55.7	151				D
cis-1,2-Dichloroethene	307	10.0	200.0	116.2	95.4	60	154				D
(MEK) 2-Butanone	599	50.0	500.0	0	120	61.8	132				D
Benzene	207	10.0	200.0	0	103	65.4	138				D
Trichloroethene (TCE)	207	5.00	200.0	7.401	99.7	60.4	134				D
Toluene	212	10.0	200.0	0	106	52	147				D
Tetrachloroethene (PCE)	224	10.0	200.0	8.282	108	50.3	133				D
Ethylbenzene	205	10.0	200.0	0	103	64.5	136				D
m,p-Xylene	392	10.0	400.0	0	97.9	63.3	135				D
o-Xylene	193	10.0	200.0	0	96.5	64.8	150				D
1,2,4-Trimethylbenzene	188	10.0	200.0	0	94.1	63.7	132				D
Naphthalene	185	10.0	200.0	0	92.5	50.7	154				D
Surr: Dibromofluoromethane	248		250.0		99.1	45.4	152				D
Surr: Toluene-d8	262		250.0		105	40.1	139				D
Surr: 1-Bromo-4-fluorobenzene	250		250.0		99.9	64.2	128				D



Work Order: 1906054  
 CLIENT: Calibre Systems  
 Project: Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>1906054-017AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>B-22-060519</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026148</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>1906054-017AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>B-22-060519</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026149</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	271	2.00	200.0	10.13	131	41	165	264.7	2.52	30	D
1,1-Dichloroethene	226	10.0	200.0	0	113	51.6	164	214.4	5.17	30	D
Acetone	635	50.0	500.0	0	127	50.8	135	618.0	2.64	30	D
trans-1,2-Dichloroethene	185	10.0	200.0	0	92.6	63.5	138	188.5	1.75	30	D
1,1-Dichloroethane	182	10.0	200.0	0	91.0	55.7	151	185.0	1.66	30	D
cis-1,2-Dichloroethene	301	10.0	200.0	116.2	92.2	60	154	307.0	2.09	30	D
(MEK) 2-Butanone	558	50.0	500.0	0	112	61.8	132	599.4	7.08	30	D
Benzene	201	10.0	200.0	0	101	65.4	138	206.8	2.65	30	D
Trichloroethene (TCE)	205	5.00	200.0	7.401	98.7	60.4	134	206.8	1.03	30	D
Toluene	207	10.0	200.0	0	104	52	147	211.7	2.15	30	D
Tetrachloroethene (PCE)	215	10.0	200.0	8.282	103	50.3	133	223.8	3.93	30	D
Ethylbenzene	201	10.0	200.0	0	100	64.5	136	205.3	2.26	30	D
m,p-Xylene	384	10.0	400.0	0	96.0	63.3	135	391.7	1.99	30	D
o-Xylene	193	10.0	200.0	0	96.4	64.8	150	193.0	0.141	30	D
1,2,4-Trimethylbenzene	187	10.0	200.0	0	93.7	63.7	132	188.2	0.477	30	D
Naphthalene	189	10.0	200.0	0	94.6	50.7	154	185.1	2.21	30	D
Surr: Dibromofluoromethane	247		250.0		98.7	45.4	152		0		D
Surr: Toluene-d8	257		250.0		103	40.1	139		0		D
Surr: 1-Bromo-4-fluorobenzene	253		250.0		101	64.2	128		0		D

Sample ID: <b>1906054-009ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/7/2019</b>	RunNo: <b>51986</b>							
Client ID: <b>SP-3B-06042019</b>	Batch ID: <b>24843</b>		Analysis Date: <b>6/10/2019</b>	SeqNo: <b>1026132</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	2.00						0		30	D

**Work Order:** 1906054  
**CLIENT:** Calibre Systems  
**Project:** Fox Avenue

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: 1906054-009ADUP	SampType: DUP	Units: µg/L	Prep Date: 6/7/2019	RunNo: 51986							
Client ID: SP-3B-06042019	Batch ID: 24843		Analysis Date: 6/10/2019	SeqNo: 1026132							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	10.0						0		30	D
trans-1,2-Dichloroethene	ND	10.0						0		30	D
1,1-Dichloroethane	ND	10.0						0		30	D
cis-1,2-Dichloroethene	ND	10.0						0		30	D
Benzene	ND	10.0						0		30	D
Trichloroethene (TCE)	ND	5.00						0		30	D
Toluene	ND	10.0						0		30	D
Tetrachloroethene (PCE)	ND	10.0						0		30	D
Ethylbenzene	ND	10.0						0		30	D
m,p-Xylene	ND	10.0						0		30	D
o-Xylene	ND	10.0						0		30	D
1,2,4-Trimethylbenzene	ND	10.0						0		30	D
Naphthalene	ND	10.0						0		30	D
Surr: Dibromofluoromethane	228		250.0		91.0	45.4	152		0		D
Surr: Toluene-d8	241		250.0		96.4	40.1	139		0		D
Surr: 1-Bromo-4-fluorobenzene	253		250.0		101	64.2	128		0		D

Client Name: **CLBRE**  
 Logged by: **Clare Griggs**

Work Order Number: **1906054**  
 Date Received: **6/5/2019 12:30:00 PM**

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

**Log In**

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 5. Custody Seals present on shipping container/cooler?  
 (Refer to comments for Custody Seals not intact) Yes  No  Not Required   
 6. Was an attempt made to cool the samples? Yes  No  NA   
 7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA   
 8. Sample(s) in proper container(s)? Yes  No   
 9. Sufficient sample volume for indicated test(s)? Yes  No   
 10. Are samples properly preserved? Yes  No   
 11. Was preservative added to bottles? Yes  No  NA   
 12. Is there headspace in the VOA vials? Yes  No  NA   
 13. Did all samples containers arrive in good condition(unbroken)? Yes  No   
 14. Does paperwork match bottle labels? Yes  No   
 15. Are matrices correctly identified on Chain of Custody? Yes  No   
 16. Is it clear what analyses were requested? Yes  No   
 17. Were all holding times able to be met? Yes  No

**Special Handling (if applicable)**

18. Was client notified of all discrepancies with this order? Yes  No  NA

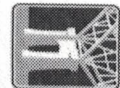
Person Notified:	<input type="text" value="Tom McKeon"/>	Date:	<input type="text" value="6/6/2019"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming select list and samples to be analyzed."/>		
Client Instructions:	<input type="text" value="Select list confirmed via email. See revised COC for samples to be analyzed."/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	9.6
Sample	7.4
Temp Blank	6.1

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# Fremont

ANALYTICAL

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

## Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 1 of 3

Project Name: Fox Avenue

Project No:

Collected by: Phyllis Lassen + Justin Waste

Location: Fox Ave

Report To (PM): Tom McKeon

PM Email: Tom.McKeon@caliberanalytical.com

Laboratory Project No (Internal): 1906054

Special Remarks: Cc Justin Waste  
Phyllis Lassen

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes														Comments			
				VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heav Oil Range Organics (HDY)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)**	EDB (8011)	TOC				
1 DuP01-06042019	6/4/19	0800	Water	X																	
2 NW-06-06042019		938		X																	
3 R2-TW1-12-060419		1014		X																	
4 B33A-06042019		1041		X																	
5 R2-TW1-45-060419		1044		X																	
6 B-64-06042019		1120		X																	
7 B-35-060419		1203		X																	
8 SP-03-06042019		1215		X																	
9 SP-38-06042019		1220		X																	
10 B-49-06042019		1405		X																	

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

\*\*Metals (Circle): MICA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [Signature] Date/Time: 6/5/19 1230

Received: [Signature] Date/Time: 6/5/19 1230

Relinquished: [Signature] Date/Time: 6/5/19 1230

Received: [Signature] Date/Time: 6/5/19 1230



3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

### Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 2 of 3  
Project Name: FOX ARMOR  
Project No: \_\_\_\_\_

Collected by: JNOSTE PLOSSER

Location: FOX ARMOR

Report To (PM): TOM MCKEON

PM Email: Tom.Mckeon@calibresys.com

Laboratory Project No (Internal): 1906054

Special Remarks: cc RMC Lossen  
Justin Nester

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Client: Calibre  
Address: 6354 Walker Ln Ste 500  
City, State, Zip: Alexandria, VA 22310  
Telephone: 360 981 5606

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heav Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8082 / 608)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)**	EDB (8011)	Comments	
1 B-19-060419	6/4/19	1425	<del>WV</del> <u>WV</u>	X														
2 MW-9-06042019		1438	<u>WV</u>	X														
3 B-20A-060419		1505	<u>WV</u>	X														
4 MW-7-06042019		1530	<u>WV</u>	X														
5 PI-IW4A-060419		1600	<u>WV</u>	X														
6 B-68-06052019	6/5/19	815	<u>WV</u>	X														
7 B-22-060519		845	<u>WV</u>	X														
8 MW1-1-060519		1025	<u>WV</u>	X														Extra QA vocs
9 RO-IW2D-06052019		1038	<u>WV</u>	X														
10 MW-185-06052019		1120	<u>WV</u>	X														

Turn-around Time:

Standard

3 Day

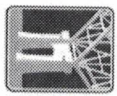
2 Day

Next Day

Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<u>Specimen</u>	<u>6/5/19 1230</u>	<u>[Signature]</u>	<u>6/5/19 1230</u>
Relinquished	Date/Time	Received	Date/Time
X		X	



# Fremont

ANALYTICAL

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

## Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 3 of 3

Project Name: Fox Avenue

Project No:

Collected by: R Lassen & J Nestle

Location: Fox Ave

Report To (PM): Tom Mckean

PM Email: Tom.Mckean@calibresys.com

Laboratory Project No (Internal): 1906054

Special Remarks: CC Justin Nestle  
Rene Lassen

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Client: Calibre  
Address: 6354 Walker Ln #500  
City, State, Zip: Alexandria, VA, 22310  
Telephone: 360-981-3606  
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)***	EDs (8011)	Comments
1 DUP02-06052019	6/5/19	1200	Water	X													
2 TRIP BLANK																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water  
 \*\*Metals (Circle): MTC-A-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn  
 \*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished 6/5/19 1230 Date/Time

Received [Signature] Date/Time 6/5/19 1230

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (specify) \_\_\_\_\_



# Fremont

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-552-3790  
Fax: 206-352-7178

## Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 2 of 3

Project Name: FOX Avenue

Collected by: Jessie R Larson

Location: FOX Avenue

Report To (PM): Tom McKeen

PM Email: Tom.McKeen@calibresys.com

Laboratory Project No (internal): 1906054

Special Remarks: a. Rine Larson  
Dustin Nasser

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 6241)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/heavy Oil Range Organics (DOR)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)***	EDB (8011)	FOX	Comments
1. B-19-060419	6/4/19	1425	Water	X														
2. MW-9-06042019		1438	Water	X														
3. B-20A-060419		1505		X														
4. MW-7-06042019		1530		X														
5. PI-TW4A-060419		1600		X														
6. B-6-8-06052019	6/5/19	815		X														
7. B-22-060519		845		X														Extra QA users
8. MW1-1-060519		1025		X														
9. RO-TW2D-06052019		1038		X														
10. MW-185-06052019		1120		X														edit per TN. 6/6/19 cly

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

\*\*Metals (Circle): MTCAS RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

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Relinquished: [Signature] Date/Time: 6/5/19 1230