

APPENDIX G
CONSTRUCTION DEWATERING



June 23rd, 2015

Ryan Scarff
Lease Crutcher Lewis
Project Engineer- Troy Block
Re: Troy Block Self-Monitoring Report

Dear Mr. Scarff,

This letter report summarizes the water treatment operations for the entirety of the Troy Block Construction Project, located at 307 Fairview Avenue North, Seattle, WA, as performed by Clear Water Services, LLC. The monitoring system was commissioned four days throughout the duration of the project. During this reporting period a total of 20,800 gallons of water was discharged to King County's sewer system in accordance with Authorization No.921-03.

Operation Notes

Mobilization of the M3 monitoring system occurred on May 22nd, 2014. The M3 is designed to automatically terminate discharge when the water quality goes outside of set parameters, such as, pH and turbidity, and resume discharge utilizing automated pneumatic valves. In addition this system was designed to automatically switch between tanks once the initial tank was 80% full. After 60 minutes of settling at 80% the system will begin to discharge. Each tank holds 6,500 gallons, at each discharge event the system discharged approximately 5,200 gallons to the King County's sewer system. Data from operations can be found in Attachment A. Troy Block Self-Monitoring Report.

Analytical Monitoring

Analytical sampling was conducted by Clear Water Services in accordance with King County Minor Discharge Authorization Number 921-03. Table 1 identifies the discharge parameters for the project. All samples collected by Clear Water Services were sent to Fremont Analytical for analysis. Analytical results can be found in Attachment B. Compiled Fremont Analytical Reports for Troy Block. In addition, all the lab results can be found in Attachment A. Troy Block Self-Monitoring Report.



Table 1. Troy Block Discharge Limits

Parameter	Limit	Detection Limit	Sample Type	Frequency
1,1,2-Trichloroethylene (TCE)	0.24 mg/L	0.50 µg/L	Grab	First three batches
Tetrachloroethylene (PCE)	0.5 mg/L	1.00 µg/L	Grab	First three batches
Nonpolar Fog	100 mg/L	4.00 mg/L	Grab	Monthly
Settleable Solids, Volumetric	7.0 mL/L	NA	Grab	Daily
pH	Between 5.0 s.u.-12 s.u.	NA	Meter	Daily

Total Rainfall

Clear Water monitors data local meteorological stations through Weather Underground Inc. to provide data validation for information coming from onsite equipment. The following table summarizes the precipitation for the duration of this reporting period for the project.

Precipitation data included in this table was collected from Weather Underground KWASEATT220 station.

Month and Year	Rainfall Amount (inches)
May 2014	2.5
June 2014	0.88
July 2014	1.3
August 2014	1.33
September 2014	2.66
October 2014	6.04
November 2014	3.74
December 2014	3.88
January 2015	2.9
February 2015	4.54
March 2015	3.41
April 2015	1.55
May 2015	0.61



If you have any questions regarding the information presented in this report or operations at the project site, please contact Tyrone Clager at (425) 754-4016.

Sincerely,

A handwritten signature in black ink, appearing to read "Tyrone Clager", with a horizontal line extending to the right.

Tyrone Clager
Project Manager

Attachments:

Attachment A. Troy Block Self-Monitoring Report

Attachment B. Compiled Fremont Analytical Reports for Troy Block

Total Discharge Volume: 20,800

The authorization holder is responsible for monitoring the discharge in accordance with the monitoring requirements specified in King County Discharge Authorization No. 921-01. This report form must be completed, signed, and submitted to KCIW by **January 15, 2016**. **Your King County Industrial Waste Program Contact:** Dave Haberman, 206-263-3007



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

Clear Water Compliance Services

Tyrone Clager
6501 212th St SW #A
Lynnwood, WA 98036

RE: Troy Block
Lab ID: 1408114

August 20, 2014

Attention Tyrone Clager:

Fremont Analytical, Inc. received 2 sample(s) on 8/13/2014 for the analyses presented in the following report.

Hexane Extractable Materials by EPA Method 1664
Volatile Organic Compounds by EPA Method 8260

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 "Chelsea", written in a cursive style.

Chelsea Ward
Project Manager



Date: 08/20/2014

CLIENT: Clear Water Compliance Services
Project: Troy Block
Lab Order: 1408114

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1408114-001	Troy Block 1 (A,B,C)	08/13/2014 12:00 PM	08/13/2014 12:30 PM
1408114-002	Troy Block 2 (A,B,C)	08/13/2014 12:00 PM	08/13/2014 12:30 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Clear Water Compliance Services

Project: Troy Block

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.



CLIENT: Clear Water Compliance Services

Project: Troy Block

Lab ID: 1408114-001

Collection Date: 8/13/2014 12:00:00 PM

Client Sample ID: Troy Block 1 (A,B,C)

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Hexane Extractable Materials by EPA Method 1664

Batch ID: 8410

Analyst: WC

HEM (Oil and Grease)	ND	4.00		mg/L	1	8/18/2014 10:12:00 AM
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Lab ID: 1408114-002

Collection Date: 8/13/2014 12:00:00 PM

Client Sample ID: Troy Block 2 (A,B,C)

Matrix: Water

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

Batch ID: R16227

Analyst: EM

Trichloroethene (TCE)	ND	0.500		µg/L	1	8/15/2014 10:01:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	8/15/2014 10:01:00 PM
Surr: Dibromofluoromethane	97.2	61.7-130		%REC	1	8/15/2014 10:01:00 PM
Surr: Toluene-d8	104	40.1-139		%REC	1	8/15/2014 10:01:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	68.2-127		%REC	1	8/15/2014 10:01:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 8/20/2014

Work Order: 1408114

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Hexane Extractable Materials by EPA Method 1664

Sample ID: MB-8410	SampType: MBLK	Units: mg/L	Prep Date: 8/15/2014	RunNo: 16234
Client ID: MBLKW	Batch ID: 8410		Analysis Date: 8/18/2014	SeqNo: 326187
Analyte	Result	RL	SPK value	SPK Ref Val
	ND	4.00		
HEM (Oil and Grease)			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Sample ID: LCS-8410	SampType: LCS	Units: mg/L	Prep Date: 8/15/2014	RunNo: 16234
Client ID: LCSW	Batch ID: 8410		Analysis Date: 8/18/2014	SeqNo: 326188
Analyte	Result	RL	SPK value	SPK Ref Val
	42.3	4.00	40.00	0
HEM (Oil and Grease)			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Sample ID: LCSD-8410	SampType: LCSD	Units: mg/L	Prep Date: 8/15/2014	RunNo: 16234
Client ID: LCSW02	Batch ID: 8410		Analysis Date: 8/18/2014	SeqNo: 326189
Analyte	Result	RL	SPK value	SPK Ref Val
	40.1	4.00	40.00	0
HEM (Oil and Grease)			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Sample ID: 1408117-001AMS	SampType: MS	Units: mg/L	Prep Date: 8/15/2014	RunNo: 16234
Client ID: BATCH	Batch ID: 8410		Analysis Date: 8/18/2014	SeqNo: 326192
Analyte	Result	RL	SPK value	SPK Ref Val
	42.8	4.00	40.00	7.200
HEM (Oil and Grease)			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

D Dilution was required

J Analyte detected below quantitation limits

RL Reporting Limit

E Value above quantitation range

ND Not detected at the Reporting Limit

S Spike recovery outside accepted recovery limits



Date: 8/20/2014

Work Order: 1408114

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-R16227	SampType: MBLK	Units: µg/L	Prep Date: 8/15/2014	RunNo: 16227							
Client ID: MBLKW	Batch ID: R16227		Analysis Date: 8/15/2014	SeqNo: 326063							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	1.00									
Surr: Dibromofluoromethane	48.3		50.00		96.6	61.7	130				
Surr: Toluene-d8	51.3		50.00		103	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	46.3		50.00		92.6	68.2	127				

Sample ID: LCS-R16227	SampType: LCS	Units: µg/L	Prep Date: 8/15/2014	RunNo: 16227							
Client ID: LCSW	Batch ID: R16227		Analysis Date: 8/15/2014	SeqNo: 326099							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	18.2	0.500	20.00	0	91.2	65.2	136				
Tetrachloroethene (PCE)	21.4	1.00	20.00	0	107	47.5	147				
Surr: Dibromofluoromethane	48.8		50.00		97.6	61.7	130				
Surr: Toluene-d8	55.5		50.00		111	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	52.5		50.00		105	68.2	127				

Sample ID: 1408078-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 8/15/2014	RunNo: 16227							
Client ID: BATCH	Batch ID: R16227		Analysis Date: 8/15/2014	SeqNo: 326108							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Surr: Dibromofluoromethane	49.1		50.00		98.1	61.7	130			0	
Surr: Toluene-d8	50.8		50.00		102	40.1	139			0	
Surr: 1-Bromo-4-fluorobenzene	46.1		50.00		92.3	68.2	127			0	

Qualifiers:	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	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 8/20/2014

Work Order: 1408114

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	19.7	0.500	20.00	0	98.4	60.4	134				
Tetrachloroethene (PCE)	23.8	1.00	20.00	0	119	50.3	133				
Surr: Dibromofluoromethane	49.0		50.00		98.0	61.7	130				
Surr: Toluene-d8	55.4		50.00		111	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	52.2		50.00		104	68.2	127				

Sample ID: 1408136-005AMS SampType: MS Units: µg/L Prep Date: 8/15/2014 RunNo: 16227
 Client ID: BATCH Batch ID: R16227 Analysis Date: 8/15/2014 SeqNo: 326120

Qualifiers:
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

D Dilution was required
 J Analyte detected below quantitation limits
 RL Reporting Limit

E Value above quantitation range
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

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

Work Order Number: **1408114**
 Date Received: **8/13/2014 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

Samples received straight from field

4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers 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 the 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="CWCS"/>	Date:	<input type="text" value="8/13/2014"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Analyte confirmation."/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



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

Clear Water Compliance Services

Duncan Medlin
6501 212th St SW #A
Lynnwood, WA 98036

RE: Troy Block
Lab ID: 1409276

October 01, 2014

Attention Duncan Medlin:

Fremont Analytical, Inc. received 8 sample(s) on 9/24/2014 for the analyses presented in the following report.

Hexane Extractable Materials by EPA Method 1664
Volatile Organic Compounds by EPA Method 8260

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 "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager



Date: 10/01/2014

CLIENT: Clear Water Compliance Services
Project: Troy Block
Lab Order: 1409276

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1409276-001	1 Composite	09/24/2014 12:45 PM	09/24/2014 1:29 PM
1409276-002	1A	09/24/2014 12:45 PM	09/24/2014 1:29 PM
1409276-003	1B	09/24/2014 12:50 PM	09/24/2014 1:29 PM
1409276-004	1C	09/24/2014 12:55 PM	09/24/2014 1:29 PM
1409276-005	2 Composite	09/24/2014 1:00 PM	09/24/2014 1:29 PM
1409276-006	2A	09/24/2014 1:00 PM	09/24/2014 1:29 PM
1409276-007	2B	09/24/2014 1:05 PM	09/24/2014 1:29 PM
1409276-008	2C	09/24/2014 1:10 PM	09/24/2014 1:29 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Clear Water Compliance Services**Project:** Troy Block

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.



CLIENT: Clear Water Compliance Services

Project: Troy Block

Lab ID: 1409276-001

Collection Date: 9/24/2014 12:45:00 PM

Client Sample ID: 1 Composite

Matrix: Water

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

Batch ID: R17135

Analyst: EM

Trichloroethene (TCE)	ND	0.500		µg/L	1	9/30/2014 8:16:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 8:16:00 PM
Surr: Dibromofluoromethane	101	61.7-130		%REC	1	9/30/2014 8:16:00 PM
Surr: Toluene-d8	101	40.1-139		%REC	1	9/30/2014 8:16:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.8	68.2-127		%REC	1	9/30/2014 8:16:00 PM

Lab ID: 1409276-005

Collection Date: 9/24/2014 1:00:00 PM

Client Sample ID: 2 Composite

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Hexane Extractable Materials by EPA Method 1664

Batch ID: 8836

Analyst: WC

HEM (Oil and Grease)	5.40	4.00		mg/L	1	9/26/2014 2:41:58 PM
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 10/1/2014

Work Order: 1409276

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT
Hexane Extractable Materials by EPA Method 1664

Sample ID: MB-8836	SampType: MBLK	Units: mg/L	Prep Date: 9/24/2014	RunNo: 17052							
Client ID: MBLKW	Batch ID: 8836		Analysis Date: 9/26/2014	SeqNo: 341627							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)	ND	4.00									

Sample ID: LCS-8836	SampType: LCS	Units: mg/L	Prep Date: 9/24/2014	RunNo: 17052							
Client ID: LCSW	Batch ID: 8836		Analysis Date: 9/26/2014	SeqNo: 341628							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)	41.1	4.00	40.00	0	103	65.5	118				

Sample ID: 1409227-001AMS	SampType: MS	Units: mg/L	Prep Date: 9/24/2014	RunNo: 17052							
Client ID: BATCH	Batch ID: 8836		Analysis Date: 9/26/2014	SeqNo: 341630							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)	45.6	4.00	40.00	3.000	106	70.6	112				

Sample ID: 1409227-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 9/24/2014	RunNo: 17052							
Client ID: BATCH	Batch ID: 8836		Analysis Date: 9/26/2014	SeqNo: 341631							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)	41.9	4.00	40.00	3.000	97.3	65	135	45.60	8.46	18	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
D Dilution was required
J Analyte detected below quantitation limits
RL Reporting Limit
E Value above quantitation range
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 10/1/2014

Work Order: 1409276

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	ND	0.500							0		30
Tetrachloroethene (PCE)	ND	1.00							0		30
Surr: Dibromofluoromethane	47.3		50.00			94.5	61.7	130		0	
Surr: Toluene-d8	49.3		50.00			98.7	40.1	139		0	
Surr: 1-Bromo-4-fluorobenzene	48.9		50.00			97.7	68.2	127		0	

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	20.2	0.500	20.00	0		101	60.4	134			
Tetrachloroethene (PCE)	20.7	1.00	20.00	0		104	50.3	133			
Surr: Dibromofluoromethane	46.3		50.00			92.5	61.7	130			
Surr: Toluene-d8	50.3		50.00			101	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	49.0		50.00			97.9	68.2	127			

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	18.4	0.500	20.00	0		92.0	65.2	136			
Tetrachloroethene (PCE)	18.5	1.00	20.00	0		92.5	47.5	147			
Surr: Dibromofluoromethane	42.5		50.00			85.1	61.7	130			
Surr: Toluene-d8	49.8		50.00			99.5	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	49.0		50.00			98.0	68.2	127			

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	18.4	0.500	20.00	0		92.0	65.2	136			
Tetrachloroethene (PCE)	18.5	1.00	20.00	0		92.5	47.5	147			
Surr: Dibromofluoromethane	42.5		50.00			85.1	61.7	130			
Surr: Toluene-d8	49.8		50.00			99.5	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	49.0		50.00			98.0	68.2	127			

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
D Dilution was required
J Analyte detected below quantitation limits
RL Reporting Limit
E Value above quantitation range
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 10/1/2014

Work Order: 1409276

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	1.00									
Surr: Dibromofluoromethane	49.5		50.00		99.0	61.7	130				
Surr: Toluene-d8	49.8		50.00		99.6	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	48.8		50.00		97.6	68.2	127				

Sample ID: MB-R17135 SampType: MBLK Units: µg/L Prep Date: 9/30/2014 RunNo: 17135

Client ID: MBLKW Batch ID: R17135 Analysis Date: 9/30/2014 SeqNo: 343609

Qualifiers:
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

D Dilution was required
 J Analyte detected below quantitation limits
 RL Reporting Limit

E Value above quantitation range
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

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

Work Order Number: **1409276**
 Date Received: **9/24/2014 1:29:00 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

Samples received straight from field.

4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers 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 the 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"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



Fremont Analytical

Chain of Custody Record

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

Laboratory Project No (Internal): 1409276

Date: 9-24-2014

Page: _____ of: _____

Client: Clear Water

Project Name: Troy Block

Address: 6501 212nd St. SW

Location: 703 Fairview Ave N

City, State, Zip: Lynnwood, WA 98036 Tel: 360-280-0508

Collected by: Duncan Medlin

Reports To (PM): Duncan Medlin Fax: _____

Email: dmedlin@ch20csi.com Project No: _____

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments/Depth			
				VOC (EPA 8260)	SV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DHO)	SOM Vol (EPA 8270)	PAH (EPA 8270)	PCBs (EPA 8082)	Metals** (6020 / 200.3)	Total (T) Dissolved (D)	Anions (C)***	EDB (6011)		1,1,2 Trichloroethane	Tetrachloroethylene	F.d.g.
1 I A	9-24	12:45																X	X	Please Composite these
2 I B	9-24	12:50															X	X		
3 I C	9-24	12:55															X	X		
4 2A	9-24	1:00																	X	Please Composite these
5 2B	9-24	1:05																X		
6 2C	9-24	1:10																X		
7																				
8																				
9																				
10																				

**Metals Analysis (Circle): MTCA-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 Ti Tl U V Zn

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

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished	Date/Time	Received	Date/Time
<i>Duncan Medlin</i>	9-24-2014 1:30 PM	<i>[Signature]</i>	9/24/14 1329
Relinquished	Date/Time	Received	Date/Time

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD

*Please coordinate with the lab in advance



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

Clear Water Compliance Services

Duncan Medlin
6501 212th St SW #A
Lynnwood, WA 98036

RE: Troy Block
Lab ID: 1409330

October 03, 2014

Attention Duncan Medlin:

Fremont Analytical, Inc. received 4 sample(s) on 9/26/2014 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260

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 "Chelsea Ward".

Chelsea Ward
Project Manager



Date: 10/03/2014

CLIENT: Clear Water Compliance Services
Project: Troy Block
Lab Order: 1409330

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1409330-001	1 Composite	09/26/2014 2:40 PM	09/26/2014 3:08 PM
1409330-002	1 A	09/26/2014 2:40 PM	09/26/2014 3:08 PM
1409330-003	1 B	09/26/2014 2:50 PM	09/26/2014 3:08 PM
1409330-004	1 C	09/26/2014 2:45 PM	09/26/2014 3:08 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Clear Water Compliance Services

Project: Troy Block

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.



Client: Clear Water Compliance Services

Collection Date: 9/26/2014 2:40:00 PM

Project: Troy Block

Lab ID: 1409330-001

Matrix: Water

Client Sample ID: 1 Composite

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

Batch ID: R17135

Analyst: EM

Trichloroethene (TCE)	2.39	0.500		µg/L	1	9/30/2014 8:44:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 8:44:00 PM
Surr: Dibromofluoromethane	103	61.7-130		%REC	1	9/30/2014 8:44:00 PM
Surr: Toluene-d8	99.9	40.1-139		%REC	1	9/30/2014 8:44:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	68.2-127		%REC	1	9/30/2014 8:44:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Date: 10/3/2014

Work Order: 1409330

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	ND	0.500							0		30
Tetrachloroethene (PCE)	ND	1.00							0		30
Surr: Dibromofluoromethane	47.3		50.00			94.5	61.7	130		0	
Surr: Toluene-d8	49.3		50.00			98.7	40.1	139		0	
Surr: 1-Bromo-4-fluorobenzene	48.9		50.00			97.7	68.2	127		0	

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	20.2	0.500	20.00	0		101	60.4	134			
Tetrachloroethene (PCE)	20.7	1.00	20.00	0		104	50.3	133			
Surr: Dibromofluoromethane	46.3		50.00			92.5	61.7	130			
Surr: Toluene-d8	50.3		50.00			101	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	49.0		50.00			97.9	68.2	127			

Analyte	Result	RL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	RunNo: 17135	
										%RPD	RPDLimit
Trichloroethene (TCE)	18.4	0.500	20.00	0		92.0	65.2	136			
Tetrachloroethene (PCE)	18.5	1.00	20.00	0		92.5	47.5	147			
Surr: Dibromofluoromethane	42.5		50.00			85.1	61.7	130			
Surr: Toluene-d8	49.8		50.00			99.5	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	49.0		50.00			98.0	68.2	127			

Qualifiers:	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	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits
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Fremont
Analytical

Date: 10/3/2014

Work Order: 1409330

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	1.00									
Surr: Dibromofluoromethane	49.5		50.00		99.0	61.7	130				
Surr: Toluene-d8	49.8		50.00		99.6	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	48.8		50.00		97.6	68.2	127				

Sample ID: MB-R17135 SampType: MBLK Units: µg/L Prep Date: 9/30/2014 RunNo: 17135

Client ID: MBLKW Batch ID: R17135 Analysis Date: 9/30/2014 SeqNo: 343609

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- D Dilution was required
- J Analyte detected below quantitation limits
- RL Reporting Limit
- E Value above quantitation range
- ND Not detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Client Name: **CWCS**
 Logged by: **Erica Silva**

Work Order Number: **1409330**
 Date Received: **9/26/2014 3:08:00 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

Samples received straight from field

4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers 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 the 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"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



Fremont

Analytical

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

Chain of Custody Record

Laboratory Project No (internal): 1409330

Date: 9-26-2014

Page: _____ of: _____

Client: Clear Water
Address: 6501 212 st SW
City, State, Zip: Lynnwood WA 98036
Tel: 310-280-0508
Reports To (PM): Duncan Medlin Fax: 425-775-1524

Project Name: Tray Block
Location: 703 Fairview Ave N. Seattle
Collected by: Duncan Medlin
Email: duncanmedline@ch2ocsi.com Project No: 13LCL1

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes															Comments/Depth			
				VOC (EPA 8260) GX/PTX	BTEX	Gasoline Range Organics (OX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DHO)	SEM VOC (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA-8082)	Metals** (6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EC6 (801.1)	1,1,2 Trichloroethylene	TetraChloroethylene					
1 <u>A</u>	9-26	2:40																				} Please Composite
2 <u>B</u>	9-26	2:50																				
3 <u>C</u>	9-26	2:45																				
4																						
5																						
6																						
7																						
8																						
9																						
10																						

**Metals Analysis (Circle): MTCA-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 Ti Tl U V Zn

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

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Duncan Medlin Date/Time 9-26-2014 3:07 Received [Signature] Date/Time 9/26 1:50 P

Relinquished _____ Date/Time _____ Received _____ Date/Time _____

Special Remarks:

TAT -> SameDay^ NextDay^ 2 Day 3 Day **STD**

*Please coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Clear Water Compliance Services

Tyrone Clager
6501 212th St SW #A
Lynnwood, WA 98036

RE: Troy Block
Lab ID: 1505008

May 08, 2015

Attention Tyrone Clager:

Fremont Analytical, Inc. received 9 sample(s) on 5/1/2015 for the analyses presented in the following report.

Hexane Extractable Materials by EPA Method 1664A
Volatile Organic Compounds by EPA Method 8260

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 "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager



Date: 05/08/2015

CLIENT: Clear Water Compliance Services
Project: Troy Block
Lab Order: 1505008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505008-001	1 Composite	05/01/2015 1:30 PM	05/01/2015 2:10 PM
1505008-002	1A	05/01/2015 1:30 PM	05/01/2015 2:10 PM
1505008-003	1B	05/01/2015 1:35 PM	05/01/2015 2:10 PM
1505008-004	1C	05/01/2015 1:40 PM	05/01/2015 2:10 PM
1505008-005	2 Composite	05/01/2015 1:45 PM	05/01/2015 2:10 PM
1505008-006	2A	05/01/2015 1:45 PM	05/01/2015 2:10 PM
1505008-007	2B	05/01/2015 1:50 PM	05/01/2015 2:10 PM
1505008-008	2C	05/01/2015 1:55 PM	05/01/2015 2:10 PM
1505008-009	Trip Blank	05/01/2015 7:30 AM	05/01/2015 2:10 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Clear Water Compliance Services**Project:** Troy Block

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 LOQ
- 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

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



WO#: 1505008

Date Reported: 5/8/2015

CLIENT: Clear Water Compliance Services

Project: Troy Block

Lab ID: 1505008-001

Collection Date: 5/1/2015 1:30:00 PM

Client Sample ID: 1 Composite

Matrix: Aqueous

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

Batch ID: R22121

Analyst: AK

Trichloroethene (TCE)	ND	0.500		µg/L	1	5/1/2015 6:06:00 PM
Tetrachloroethylene(PCE)	ND	1.00		µg/L	1	5/1/2015 6:06:00 PM
Surr: Dibromofluoromethane	100	77.4-147		%REC	1	5/1/2015 6:06:00 PM
Surr: Toluene-d8	96.3	40.1-139		%REC	1	5/1/2015 6:06:00 PM
Surr: 1-Bromo-4-fluorobenzene	105	64.2-128		%REC	1	5/1/2015 6:06:00 PM

Lab ID: 1505008-005

Collection Date: 5/1/2015 1:45:00 PM

Client Sample ID: 2 Composite

Matrix: Aqueous

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Hexane Extractable Materials by EPA Method 1664A

Batch ID: 10706

Analyst: WC

HEM (Oil and Grease)	ND	4.00		mg/L	1	5/7/2015 1:28:34 PM
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NOTES:

Sample is a composite.



Date: 5/8/2015

QC SUMMARY REPORT
Hexane Extractable Materials by EPA Method 1664A

Work Order: 1505008
CLIENT: Clear Water Compliance Services
Project: Troy Block

Sample ID	MB-10706	SampType:	MBLK	Units:	mg/L	Prep Date:	5/6/2015	RunNo:	22217			
Client ID:	MBLKW	Batch ID:	10706	Analysis Date:	5/7/2015	SeqNo:	421718					
Analyte		Result	ND	RL	4.00	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	LCS-10706	SampType:	LCS	Units:	mg/L	Prep Date:	5/6/2015	RunNo:	22217			
Client ID:	LCSW	Batch ID:	10706	Analysis Date:	5/7/2015	SeqNo:	421719					
Analyte		Result	38.6	RL	4.00	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)					40.00	96.5	65.5	118				

Sample ID	1505009-001AMS	SampType:	MS	Units:	mg/L	Prep Date:	5/6/2015	RunNo:	22217			
Client ID:	BATCH	Batch ID:	10706	Analysis Date:	5/7/2015	SeqNo:	421722					
Analyte		Result	41.5	RL	4.00	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)					39.10	96.4	70.6	112				

NOTES:
Sample is a composite.

Sample ID	1505009-001AMSD	SampType:	MSD	Units:	mg/L	Prep Date:	5/6/2015	RunNo:	22217			
Client ID:	BATCH	Batch ID:	10706	Analysis Date:	5/7/2015	SeqNo:	421723					
Analyte		Result	43.5	RL	4.00	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil and Grease)					39.11	102	65	135	41.50	4.71	18	

NOTES:
Sample is a composite.



Date: 5/8/2015

Work Order: 1505008

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260

Sample ID	1504236-001AMS	SampType:	MS	Batch ID:	R22121	Units:	µg/L	Prep Date:	5/1/2015	RunNo:	22121
Client ID:	BATCH	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Analyte											Qual
Trichloroethene (TCE)	23.6	0.500	20.00	0	0	118	60.4	134			
Tetrachloroethylene(PCE)	22.1	1.00	20.00	0	0	111	50.3	133			
Surr: Dibromofluoromethane	24.3		25.00			97.2	77.4	147			
Surr: Toluene-d8	24.2		25.00			96.8	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00			103	64.2	128			

Sample ID	1504264-001ADUP	SampType:	DUP	Batch ID:	R22121	Units:	µg/L	Prep Date:	5/1/2015	RunNo:	22121
Client ID:	BATCH	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Analyte											Qual
Trichloroethene (TCE)	ND	0.500							0		30
Tetrachloroethylene(PCE)	ND	1.00							0		30
Surr: Dibromofluoromethane	25.2		25.00			101	77.4	147		0	
Surr: Toluene-d8	24.8		25.00			99.2	40.1	139		0	
Surr: 1-Bromo-4-fluorobenzene	24.7		25.00			98.7	64.2	128		0	

Sample ID	LCS-R22121	SampType:	LCS	Batch ID:	R22121	Units:	µg/L	Prep Date:	5/1/2015	RunNo:	22121
Client ID:	LCSW	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Analyte											Qual
Trichloroethene (TCE)	20.7	0.500	20.00	0	0	103	65.2	136			
Tetrachloroethylene(PCE)	19.0	1.00	20.00	0	0	94.8	47.5	147			
Surr: Dibromofluoromethane	25.4		25.00			102	77.4	147			
Surr: Toluene-d8	25.4		25.00			102	40.1	139			
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00			100	64.2	128			



Date: 5/8/2015

Work Order: 1505008

CLIENT: Clear Water Compliance Services

Project: Troy Block

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260

Sample ID	MB-R22121	SampType: MBLK	Units: µg/L	Prep Date: 5/1/2015	RunNo: 22121					
Client ID: MBLKW	Batch ID: R22121	Result	RL	SPK value	SPK Ref Val					
Analyte				%REC	LowLimit	HighLimit	RPD	Ref Val	RPDLimit	Qual
Trichloroethene (TCE)		ND	0.500							
Tetrachloroethylene(PCE)		ND	1.00							
Surr: Dibromofluoromethane		25.5		25.00	102	77.4		147		
Surr: Toluene-d8		25.2		25.00	101	40.1		139		
Surr: 1-Bromo-4-fluorobenzene		25.3		25.00	101	64.2		128		

Client Name: **CWCS**
 Logged by: **Erica Silva**

 Work Order Number: **1505008**
 Date Received: **5/1/2015 2:10:00 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 intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA

Samples received straight from field

7. Were all coolers 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 the 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"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Sample labels did not match sample names on Chain of Custody -
 COC -> LABEL
 1A -> Fog 1 (40mL VOA HCl)
 1B -> Fog 2 (40mL VOA HCl)
 1C -> Fog 3 (40mL VOA HCl)
 2A -> 1 (1L amber)
 2B -> 2 (1L amber)
 2C -> 3 (1L amber)

Item Information

Item #	Temp °C	Condition



Sample Log-In Check List

Client Name: **CWCS**
Logged by: **Erica Silva**

Work Order Number: **1505008**
Date Received: **5/1/2015 2:10:00 PM**

Item #	Temp °C	Condition
Sample	21.5	
Temp Blank	22.5	



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/1/15

Laboratory Project No (internal): 1505008

Page: _____ of: _____

Client: Clear Water Services
Address: 6501 212m STW
City, State, Zip: Lynnwood, WA
Tel: 425 412 5700 Fax: _____

Project Name: TROY BLACK
Project No: _____ Collected by: Caitlin Allwood
Location: Seattle, WA
Reports To (PM): Tyrene Cooper
Email: _____

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments/Depth				
				VOC (EPA 8260)	OX/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SEMI-VOL (EPA 8270)	PAH (EPA 8270 - 9M)	PCBs (EPA 8092)	Metals** (6020 / 200-8)	Total (T) / Dissolved (D)	Anions (Cl ⁻ / SO ₄ ²⁻)	FOG (8011)					
1 IA	5/1	1330	AQ														X	X			Composite
2 IB	5/1	1335	AQ														X	X			
3 IC	5/1	1340	AQ														X	X			
4 2A	5/1	1345	AQ																X		Composite
5 2B	5/1	1350	AQ																X		
6 2C	5/1	1355	AQ																X		
7																					
8																					
9																					
10																					

**Metals Analysis (Circle): MITA-5 RCRA-6 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 Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite Turn-around times for samples received after 4:00pm will begin on the following business day. Special Remarks:

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: 5/1/15 14:10 Received Date/Time: 5/1/15 14:10
Relinquished Date/Time: _____ Received Date/Time: _____

TAT -> SameDay[^] NextDay[^] 2 Day 3 Day STD
*Please coordinate with the lab in advance