

**REPORTED TO** Allterra Construction  
2158 Millstream Road  
Victoria, BC V9B 6H4

**TEL** (250) 508-0726  
**FAX**

**ATTENTION** Rahim Gaidhar

**WORK ORDER** 6100550

**PO NUMBER**

**RECEIVED / TEMP** 2016-10-10 11:00 / 6°C

**PROJECT** SIRM 460 Stebbings

**REPORTED** 2016-10-11

**PROJECT INFO**

**COC NUMBER** B33040

**General Comments:**

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

**Work Order Comments:**

1 VOC vial for sample 1 was broken upon arrival.

DRAFT

Authorized By:

**DRAFT REPORT**  
DATA SUBJECT TO CHANGE

***If you have any questions or concerns, please contact your Account Manager:  
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Analysis Description	Method Reference	Technique	Location
Chloride by Titration in Water	APHA 4500-Cl- D*	Potentiometric Titration	Richmond
Conductivity in Water	APHA 2510 B	Conductivity Meter	Richmond
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Glycols in Water	EPA 8015B*	Gas Chromatography (GC-FID)	Richmond
Hardness (as CaCO <sub>3</sub> ) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Hardness (as CaCO <sub>3</sub> ) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved by CVAFS in Water	EPA 245.7*	BrCl <sub>2</sub> Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl <sub>2</sub> Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Richmond
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO <sub>3</sub> +HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Richmond
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260B	Purge&Trap / GC-MS (SIM)	Richmond

**Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method**

**Method Reference Descriptions:**

APHA Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association/American Water Works Association/Water Environment Federation  
 BCMOE British Columbia Environmental Laboratory Manual, 2013, British Columbia Ministry of Environment  
 EPA United States Environmental Protection Agency Test Methods

**Glossary of Terms:**

MRL Method Reporting Limit  
 < Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences  
 mg/L Milligrams per litre  
 NTU Nephelometric Turbidity Units  
 pH units pH < 7 = acidic, pH > 7 = basic  
 µg/L Micrograms per litre  
 µS/cm Microsiemens per centimetre

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Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: PEA (6100550-01) [Water] Sampled: 2016-10-08 10:00

CT5, F1

**General Parameters**

Chloride	44 ± 3		2 mg/L		N/A	2016-10-11	
Conductivity (EC)	1390 ± 96		2 µS/cm		N/A	2016-10-11	
pH	6.72 ± 0.03		0.01 pH units		N/A	2016-10-11	HT2
Solids, Total Suspended	25200 ± 3180		2 mg/L		N/A	2016-10-11	
Turbidity	8960 ± 1120		0.10 NTU		N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	651		0.50 mg/L		N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	0.009 ± 0.002		0.005 mg/L		N/A	2016-10-11	
Antimony, dissolved	0.0016 ± 0.0002		0.0001 mg/L		N/A	2016-10-11	
Arsenic, dissolved	0.0008 ± 0.0001		0.0005 mg/L		N/A	2016-10-11	
Barium, dissolved	0.156 ± 0.020		0.005 mg/L		N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001 mg/L		N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001 mg/L		N/A	2016-10-11	
Boron, dissolved	0.042 ± 0.008		0.004 mg/L		N/A	2016-10-11	
Cadmium, dissolved	0.00006 ± 0.00001		0.00001 mg/L		N/A	2016-10-11	
Calcium, dissolved	234 ± 36		0.2 mg/L		N/A	2016-10-11	
Chromium, dissolved	0.0016 ± 0.0003		0.0005 mg/L		N/A	2016-10-11	
Cobalt, dissolved	0.00311 ± 0.00031		0.00005 mg/L		N/A	2016-10-11	
Copper, dissolved	0.0041 ± 0.0007		0.0002 mg/L		N/A	2016-10-11	
Iron, dissolved	0.011 ± 0.008		0.010 mg/L		N/A	2016-10-11	
Lead, dissolved	< 0.0001		0.0001 mg/L		N/A	2016-10-11	
Lithium, dissolved	0.0001		0.0001 mg/L		N/A	2016-10-11	
Magnesium, dissolved	16.2 ± 2.6		0.01 mg/L		N/A	2016-10-11	
Manganese, dissolved	0.850 ± 0.096		0.0002 mg/L		N/A	2016-10-11	
Mercury, dissolved	0.00003 ± 0.00002		0.00002 mg/L		N/A	2016-10-11	
Molybdenum, dissolved	0.0125 ± 0.0011		0.0001 mg/L		N/A	2016-10-11	
Nickel, dissolved	0.0034 ± 0.0004		0.0002 mg/L		N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02 mg/L		N/A	2016-10-11	
Potassium, dissolved	8.00 ± 1.10		0.02 mg/L		N/A	2016-10-11	
Selenium, dissolved	0.0013 ± 0.0004		0.0005 mg/L		N/A	2016-10-11	
Silicon, dissolved	3.7 ± 1.7		0.5 mg/L		N/A	2016-10-11	
Silver, dissolved	< 0.00005		0.00005 mg/L		N/A	2016-10-11	
Sodium, dissolved	65.8 ± 10.1		0.02 mg/L		N/A	2016-10-11	
Strontium, dissolved	1.09 ± 0.11		0.001 mg/L		N/A	2016-10-11	
Sulfur, dissolved	252 ± 6110		1 mg/L		N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002 mg/L		N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002 mg/L		N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001 mg/L		N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002 mg/L		N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005 mg/L		N/A	2016-10-11	
Uranium, dissolved	< 0.00002		0.00002 mg/L		N/A	2016-10-11	
Vanadium, dissolved	< 0.001		0.001 mg/L		N/A	2016-10-11	
Zinc, dissolved	0.011 ± 0.006		0.004 mg/L		N/A	2016-10-11	

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Sample ID: PEA (6100550-01) [Water] Sampled: 2016-10-08 10:00, Continued

CT5, F1

**Dissolved Metals, Continued**

Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
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**Total Metals**

Aluminum, total	492 ± 90		0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	0.0016 ± 0.0002		0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	0.0516 ± 0.0069		0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	2.37 ± 0.36		0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	0.0111 ± 0.0054		0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	0.0009 ± 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	0.078 ± 0.016		0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	0.00346 ± 0.00034		0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	313 ± 36		0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	0.743 ± 0.100		0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	0.246 ± 0.022		0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	0.877 ± 0.100		0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	369 ± 73		0.01	mg/L	2016-10-11	2016-10-11	
Lead, total	0.266 ± 0.022		0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	0.127 ± 0.019		0.0001	mg/L	2016-10-11	2016-10-11	
Magnesium, total	105 ± 15		0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	11.8 ± 1.1		0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	0.00026 ± 0.00005		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	0.0128 ± 0.0010		0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	0.403 ± 0.039		0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	12.2 ± 3342.3		0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	17.5 ± 2.0		0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	0.0047 ± 0.0007		0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	224 ± 82		0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	0.00196 ± 0.00102		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	70.0 ± 10.3		0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	1.67 ± 0.15		0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	240 ± 83200		1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Thallium, total	0.00085 ± 0.00009		0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	0.0089 ± 0.0018		0.0001	mg/L	2016-10-11	2016-10-11	
Tin, total	0.0022 ± 0.0004		0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	12.5 ± 1.7		0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	0.0148 ± 0.0010		0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	1.17 ± 0.14		0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	2.05 ± 0.28		0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	0.0352 ± 0.0077		0.0001	mg/L	2016-10-11	2016-10-11	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	901 ± 614		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	899		250	µg/L	N/A	N/A	

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: PEA (6100550-01) [Water] Sampled: 2016-10-08 10:00, Continued**

**CT5, F1**

**BCMOE Aggregate Hydrocarbons, Continued**

<i>Surrogate: 2-Methylnonane</i>	83		60-140	%	2016-10-10	2016-10-10	
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**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
<i>Surrogate: Tetramethylene Glycol</i>	90		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	0.08 ± 0.43		0.05	µg/L	2016-10-10	2016-10-10	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Anthracene	0.12 ± 0.51		0.01	µg/L	2016-10-10	2016-10-10	
Benz (a) anthracene	0.19 ± 0.44		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (a) pyrene	0.26 ± 0.15		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (b) fluoranthene	0.20 ± 1.18		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (g,h,i) perylene	0.36 ± 4.31		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (k) fluoranthene	0.13 ± 1.03		0.05	µg/L	2016-10-10	2016-10-10	
Chrysene	0.21 ± 0.35		0.05	µg/L	2016-10-10	2016-10-10	
Dibenz (a,h) anthracene	0.10 ± 1.13		0.05	µg/L	2016-10-10	2016-10-10	
Fluoranthene	0.86 ± 3.29		0.03	µg/L	2016-10-10	2016-10-10	
Fluorene	0.06 ± 0.25		0.05	µg/L	2016-10-10	2016-10-10	
Indeno (1,2,3-cd) pyrene	0.27 ± 0.38		0.05	µg/L	2016-10-10	2016-10-10	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Phenanthrene	0.41 ± 1.97		0.10	µg/L	2016-10-10	2016-10-10	
Pyrene	0.45 ± 1.61		0.02	µg/L	2016-10-10	2016-10-10	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
<i>Surrogate: Acridine-d9</i>	37		60-130	%	2016-10-10	2016-10-10	S02
<i>Surrogate: Naphthalene-d8</i>	87		60-130	%	2016-10-10	2016-10-10	
<i>Surrogate: Perylene-d12</i>	84		60-130	%	2016-10-10	2016-10-10	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	

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**Sample ID: PEA (6100550-01) [Water] Sampled: 2016-10-08 10:00, Continued**

**CT5, F1**

**Volatile Organic Compounds (VOC), Continued**

1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	91		70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	89		70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	95		70-130	%	N/A	2016-10-11	

**Sample ID: Weir (6100550-02) [Water] Sampled: 2016-10-08 11:15**

**General Parameters**

Chloride	13 ± 1		2	mg/L	N/A	2016-10-11	
Conductivity (EC)	275 ± 19		2	µS/cm	N/A	2016-10-11	
pH	7.35 ± 0.03		0.01	pH units	N/A	2016-10-11	HT2
Solids, Total Suspended	95 ± 12		2	mg/L	N/A	2016-10-11	
Turbidity	416 ± 52		0.10	NTU	N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	98.6		0.50	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	0.022 ± 0.005		0.005	mg/L	N/A	2016-10-11	
Antimony, dissolved	0.0004 ± 0.0001		0.0001	mg/L	N/A	2016-10-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Barium, dissolved	0.009 ± 0.001		0.005	mg/L	N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

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**Sample ID: Weir (6100550-02) [Water] Sampled: 2016-10-08 11:15, Continued**

***Dissolved Metals, Continued***

Boron, dissolved	0.026	± 0.005	0.004	mg/L	N/A	2016-10-11	
Cadmium, dissolved	0.00003	± 0.00001	0.00001	mg/L	N/A	2016-10-11	
Calcium, dissolved	31.6	± 4.9	0.2	mg/L	N/A	2016-10-11	
Chromium, dissolved	0.0006	± 0.0002	0.0005	mg/L	N/A	2016-10-11	
Cobalt, dissolved	0.00170	± 0.00017	0.00005	mg/L	N/A	2016-10-11	
Copper, dissolved	0.0017	± 0.0004	0.0002	mg/L	N/A	2016-10-11	
Iron, dissolved	0.024	± 0.009	0.010	mg/L	N/A	2016-10-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-10-11	
Magnesium, dissolved	4.79	± 0.77	0.01	mg/L	N/A	2016-10-11	
Manganese, dissolved	0.0154	± 0.0017	0.0002	mg/L	N/A	2016-10-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, dissolved	0.0017	± 0.0002	0.0001	mg/L	N/A	2016-10-11	
Nickel, dissolved	0.0008	± 0.0002	0.0002	mg/L	N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-11	
Potassium, dissolved	2.54	± 0.35	0.02	mg/L	N/A	2016-10-11	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Silicon, dissolved	1.1	± 0.5	0.5	mg/L	N/A	2016-10-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Sodium, dissolved	12.2	± 1.9	0.02	mg/L	N/A	2016-10-11	
Strontium, dissolved	0.146	± 0.015	0.001	mg/L	N/A	2016-10-11	
Sulfur, dissolved	26	± 634	1	mg/L	N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Uranium, dissolved	0.00006	± 0.00001	0.00002	mg/L	N/A	2016-10-11	
Vanadium, dissolved	0.001		0.001	mg/L	N/A	2016-10-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

***Total Metals***

Aluminum, total	13.7	± 2.5	0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	0.0006	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	0.0026	± 0.0003	0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	0.085	± 0.013	0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	0.0002	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	0.035	± 0.007	0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	0.00010	± 0.00002	0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	36.2	± 4.2	0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	0.0276	± 0.0037	0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	0.00871	± 0.00079	0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	0.0307	± 0.0035	0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	14.8	± 2.9	0.01	mg/L	2016-10-11	2016-10-11	



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**Sample ID: Weir (6100550-02) [Water] Sampled: 2016-10-08 11:15, Continued**

**Total Metals, Continued**

Lead, total	0.0113	± 0.0009	0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	0.0073	± 0.0011	0.0001	mg/L	2016-10-11	2016-10-11	
Magnesium, total	10.5	± 1.5	0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	0.260	± 0.024	0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	0.0018	± 0.0002	0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	0.0199	± 0.0019	0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	0.21	± 40.97	0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	4.35	± 0.49	0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	26.0	± 9.5	0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	13.5	± 2.0	0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	0.172	± 0.016	0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	25	± 8410	1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Thallium, total	0.00005	± 0.00001	0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	0.0005	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Tin, total	0.0005	± 0.0001	0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	0.737	± 0.099	0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	0.00036	± 0.00002	0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	0.038	± 0.005	0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	0.043	± 0.006	0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	0.0078	± 0.0017	0.0001	mg/L	2016-10-11	2016-10-11	

**BCMOC Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	< 250		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	85		60-140	%	2016-10-10	2016-10-10	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Surrogate: Tetramethylene Glycol	95		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	

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**Sample ID: Weir (6100550-02) [Water] Sampled: 2016-10-08 11:15, Continued**

**Polycyclic Aromatic Hydrocarbons (PAH), Continued**

Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Chrysene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-10	2016-10-10	
Fluorene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Pyrene	< 0.02		0.02	µg/L	2016-10-10	2016-10-10	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Surrogate: Acridine-d9	74		60-130	%	2016-10-10	2016-10-10	
Surrogate: Naphthalene-d8	89		60-130	%	2016-10-10	2016-10-10	
Surrogate: Perylene-d12	118		60-130	%	2016-10-10	2016-10-10	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	

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**Sample ID: Weir (6100550-02) [Water] Sampled: 2016-10-08 11:15, Continued**

**Volatile Organic Compounds (VOC), Continued**

Toluene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	101		70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	100		70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	108		70-130	%	N/A	2016-10-11	

**Sample ID: SW1 (6100550-03) [Water] Sampled: 2016-10-08 11:00**

**General Parameters**

Chloride	228 ± 17		2	mg/L	N/A	2016-10-11	
Conductivity (EC)	1360 ± 95		2	µS/cm	N/A	2016-10-11	
pH	7.22 ± 0.03		0.01	pH units	N/A	2016-10-11	HT2
Solids, Total Suspended	28 ± 4		2	mg/L	N/A	2016-10-11	
Turbidity	45.8 ± 5.8		0.10	NTU	N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	479		0.50	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	0.020 ± 0.004		0.005	mg/L	N/A	2016-10-11	
Antimony, dissolved	0.0003 ± 0.0001		0.0001	mg/L	N/A	2016-10-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Barium, dissolved	0.066 ± 0.008		0.005	mg/L	N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Boron, dissolved	0.061 ± 0.012		0.004	mg/L	N/A	2016-10-11	
Cadmium, dissolved	0.00002 ± 0.00001		0.00001	mg/L	N/A	2016-10-11	
Calcium, dissolved	148 ± 23		0.2	mg/L	N/A	2016-10-11	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Cobalt, dissolved	0.00200 ± 0.00020		0.00005	mg/L	N/A	2016-10-11	
Copper, dissolved	0.0014 ± 0.0004		0.0002	mg/L	N/A	2016-10-11	
Iron, dissolved	0.136 ± 0.030		0.010	mg/L	N/A	2016-10-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Lithium, dissolved	0.0003 ± 0.0001		0.0001	mg/L	N/A	2016-10-11	
Magnesium, dissolved	26.5 ± 4.3		0.01	mg/L	N/A	2016-10-11	
Manganese, dissolved	0.435 ± 0.049		0.0002	mg/L	N/A	2016-10-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, dissolved	0.0039 ± 0.0003		0.0001	mg/L	N/A	2016-10-11	
Nickel, dissolved	0.0016 ± 0.0003		0.0002	mg/L	N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-11	
Potassium, dissolved	4.59 ± 0.63		0.02	mg/L	N/A	2016-10-11	

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**Sample ID: SW1 (6100550-03) [Water] Sampled: 2016-10-08 11:00, Continued**

***Dissolved Metals, Continued***

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Silicon, dissolved	<b>4.5</b>	± 2.0	0.5	mg/L	N/A	2016-10-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Sodium, dissolved	<b>93.6</b>	± 14.4	0.02	mg/L	N/A	2016-10-11	
Strontium, dissolved	<b>0.609</b>	± 0.062	0.001	mg/L	N/A	2016-10-11	
Sulfur, dissolved	<b>82</b>	± 1990	1	mg/L	N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Uranium, dissolved	<b>0.00268</b>	± 0.00035	0.00002	mg/L	N/A	2016-10-11	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

***Total Metals***

Aluminum, total	<b>1.06</b>	± 0.19	0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	<b>0.0003</b>	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	<b>0.0007</b>	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	<b>0.080</b>	± 0.012	0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	<b>0.073</b>	± 0.015	0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	<b>0.00003</b>	± 0.00002	0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	<b>164</b>	± 19	0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	<b>0.0025</b>	± 0.0003	0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	<b>0.00420</b>	± 0.00038	0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	<b>0.0052</b>	± 0.0006	0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	<b>1.37</b>	± 0.27	0.01	mg/L	2016-10-11	2016-10-11	
Lead, total	<b>0.0013</b>	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	<b>0.0008</b>	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Magnesium, total	<b>29.8</b>	± 4.3	0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	<b>0.746</b>	± 0.068	0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	<b>0.0043</b>	± 0.0003	0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	<b>0.0033</b>	± 0.0003	0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	<b>0.06</b>	± 1.32	0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	<b>5.04</b>	± 0.57	0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	<b>6.3</b>	± 2.3	0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	<b>100</b>	± 15	0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	<b>0.649</b>	± 0.060	0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	<b>88</b>	± 30100	1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	

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**Sample ID: SW1 (6100550-03) [Water] Sampled: 2016-10-08 11:00, Continued**

**Total Metals, Continued**

Thallium, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	<b>0.059</b>	± 0.008	0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	<b>0.00285</b>	± 0.00018	0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	<b>0.004</b>		0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	<b>0.006</b>	± 0.002	0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	<b>0.0021</b>	± 0.0005	0.0001	mg/L	2016-10-11	2016-10-11	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	< 250		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	81		60-140	%	2016-10-10	2016-10-10	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Surrogate: Tetramethylene Glycol	81		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Chrysene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-10	2016-10-10	
Fluorene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Pyrene	< 0.02		0.02	µg/L	2016-10-10	2016-10-10	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Surrogate: Acridine-d9	76		60-130	%	2016-10-10	2016-10-10	
Surrogate: Naphthalene-d8	84		60-130	%	2016-10-10	2016-10-10	
Surrogate: Perylene-d12	117		60-130	%	2016-10-10	2016-10-10	

**Volatile Organic Compounds (VOC)**

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**Sample ID: SW1 (6100550-03) [Water] Sampled: 2016-10-08 11:00, Continued**

*Volatile Organic Compounds (VOC), Continued*

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	94		70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	96		70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	103		70-130	%	N/A	2016-10-11	

**Sample ID: SW1 (6100550-04) [Water] Sampled: 2016-10-08 18:00**

**General Parameters**

Chloride	94 ± 7	2 mg/L	N/A	2016-10-11
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**Sample ID: SW1 (6100550-04) [Water] Sampled: 2016-10-08 18:00, Continued**

**General Parameters, Continued**

Conductivity (EC)	861	± 60	2	µS/cm	N/A	2016-10-11	
pH	7.33	± 0.03	0.01	pH units	N/A	2016-10-11	HT2
Solids, Total Suspended	3	± 1	2	mg/L	N/A	2016-10-11	
Turbidity	6.41	± 0.81	0.10	NTU	N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	345		0.50	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	0.007	± 0.002	0.005	mg/L	N/A	2016-10-11	
Antimony, dissolved	0.0004	± 0.0001	0.0001	mg/L	N/A	2016-10-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Barium, dissolved	0.035	± 0.004	0.005	mg/L	N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Boron, dissolved	0.035	± 0.007	0.004	mg/L	N/A	2016-10-11	
Cadmium, dissolved	0.00004	± 0.00001	0.00001	mg/L	N/A	2016-10-11	
Calcium, dissolved	109	± 17	0.2	mg/L	N/A	2016-10-11	
Chromium, dissolved	0.0006	± 0.0001	0.0005	mg/L	N/A	2016-10-11	
Cobalt, dissolved	0.00095	± 0.00009	0.00005	mg/L	N/A	2016-10-11	
Copper, dissolved	0.0014	± 0.0004	0.0002	mg/L	N/A	2016-10-11	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-10-11	
Magnesium, dissolved	17.9	± 2.9	0.01	mg/L	N/A	2016-10-11	
Manganese, dissolved	0.155	± 0.018	0.0002	mg/L	N/A	2016-10-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, dissolved	0.0027	± 0.0002	0.0001	mg/L	N/A	2016-10-11	
Nickel, dissolved	0.0015	± 0.0003	0.0002	mg/L	N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-11	
Potassium, dissolved	2.57	± 0.35	0.02	mg/L	N/A	2016-10-11	
Selenium, dissolved	0.0005	± 0.0001	0.0005	mg/L	N/A	2016-10-11	
Silicon, dissolved	3.9	± 1.8	0.5	mg/L	N/A	2016-10-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Sodium, dissolved	40.1	± 6.1	0.02	mg/L	N/A	2016-10-11	
Strontium, dissolved	0.376	± 0.038	0.001	mg/L	N/A	2016-10-11	
Sulfur, dissolved	70	± 1700	1	mg/L	N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Uranium, dissolved	0.00215	± 0.00028	0.00002	mg/L	N/A	2016-10-11	
Vanadium, dissolved	0.002		0.001	mg/L	N/A	2016-10-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

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**Sample ID: SW1 (6100550-04) [Water] Sampled: 2016-10-08 18:00, Continued**

<b>Total Metals</b>							
Aluminum, total	0.193	± 0.036	0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	0.0004	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	0.037	± 0.006	0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	0.038	± 0.008	0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	0.00004	± 0.00002	0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	113	± 13	0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	0.0008	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	0.00111	± 0.00010	0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	0.0022	± 0.0003	0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	0.22	± 0.04	0.01	mg/L	2016-10-11	2016-10-11	
Lead, total	0.0003	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	0.0003	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Magnesium, total	18.8	± 2.7	0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	0.173	± 0.016	0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	0.0028	± 0.0002	0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	0.0018	± 0.0002	0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	< 0.02		0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	2.63	± 0.30	0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	0.0005	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	4.2	± 1.5	0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	40.4	± 6.0	0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	0.375	± 0.035	0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	71	± 24100	1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Thallium, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	0.010	± 0.001	0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	0.00216	± 0.00014	0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	0.003		0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	< 0.004		0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	

<b>BCMOE Aggregate Hydrocarbons</b>							
EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	< 250		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	87		60-140	%	2016-10-10	2016-10-10	

**Glycols**



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**Sample ID: SW1 (6100550-04) [Water] Sampled: 2016-10-08 18:00, Continued**

**Glycols, Continued**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
<i>Surrogate: Tetramethylene Glycol</i>	94		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Chrysene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-10	2016-10-10	
Fluorene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Pyrene	< 0.02		0.02	µg/L	2016-10-10	2016-10-10	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
<i>Surrogate: Acridine-d9</i>	75		60-130	%	2016-10-10	2016-10-10	
<i>Surrogate: Naphthalene-d8</i>	89		60-130	%	2016-10-10	2016-10-10	
<i>Surrogate: Perylene-d12</i>	125		60-130	%	2016-10-10	2016-10-10	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	

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**Sample ID: SW1 (6100550-04) [Water] Sampled: 2016-10-08 18:00, Continued**

**Volatile Organic Compounds (VOC), Continued**

1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	92		70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	93		70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	100		70-130	%	N/A	2016-10-11	

**Sample ID: FB (6100550-05) [Water] Sampled: 2016-10-08 17:45**

**General Parameters**

Chloride	< 2		2	mg/L	N/A	2016-10-11	
Conductivity (EC)	3		2	µS/cm	N/A	2016-10-11	
pH	7.21 ± 0.03		0.01	pH units	N/A	2016-10-11	HT2
Solids, Total Suspended	< 2		2	mg/L	N/A	2016-10-11	
Turbidity	0.35 ± 0.06		0.10	NTU	N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	0.59		0.50	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Antimony, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Boron, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-11	
Cadmium, dissolved	0.00002 ± 0.00001		0.00001	mg/L	N/A	2016-10-11	

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**Sample ID: FB (6100550-05) [Water] Sampled: 2016-10-08 17:45, Continued**

***Dissolved Metals, Continued***

Calcium, dissolved	0.2	± 0.1	0.2	mg/L	N/A	2016-10-11	
Chromium, dissolved	0.0006	± 0.0002	0.0005	mg/L	N/A	2016-10-11	
Cobalt, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Copper, dissolved	0.0005	± 0.0003	0.0002	mg/L	N/A	2016-10-11	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-11	
Lead, dissolved	0.0001	± 0.0001	0.0001	mg/L	N/A	2016-10-11	
Lithium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Magnesium, dissolved	0.02		0.01	mg/L	N/A	2016-10-11	
Manganese, dissolved	0.0010	± 0.0002	0.0002	mg/L	N/A	2016-10-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Nickel, dissolved	0.0002	± 0.0002	0.0002	mg/L	N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-11	
Potassium, dissolved	0.07	± 0.03	0.02	mg/L	N/A	2016-10-11	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Silicon, dissolved	< 0.5		0.5	mg/L	N/A	2016-10-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Sodium, dissolved	0.06	± 0.03	0.02	mg/L	N/A	2016-10-11	
Strontium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-11	
Sulfur, dissolved	< 1		1	mg/L	N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Uranium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-11	
Zinc, dissolved	0.006	± 0.006	0.004	mg/L	N/A	2016-10-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

***Total Metals***

Aluminum, total	< 0.005		0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	< 0.005		0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	< 0.004		0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	0.00002	± 0.00002	0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	0.2	± 0.1	0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	0.0006	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	0.0006	± 0.0002	0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	0.01	± 0.01	0.01	mg/L	2016-10-11	2016-10-11	
Lead, total	0.0002	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	

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**Sample ID: FB (6100550-05) [Water] Sampled: 2016-10-08 17:45, Continued**

**Total Metals, Continued**

Magnesium, total	0.02	± 0.01	0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	0.0011	± 0.0001	0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	0.0003	± 0.0001	0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	< 0.02		0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	0.07	± 0.04	0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	< 0.5		0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	0.05	± 0.04	0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	< 0.001		0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	1	± 5	1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Thallium, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	< 0.005		0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	< 0.001		0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	0.006	± 0.002	0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	< 250		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	83		60-140	%	2016-10-10	2016-10-10	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Surrogate: Tetramethylene Glycol	112		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-10	2016-10-10	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	

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**Sample ID: FB (6100550-05) [Water] Sampled: 2016-10-08 17:45, Continued**

**Polycyclic Aromatic Hydrocarbons (PAH), Continued**

Chrysene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-10	2016-10-10	
Fluorene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-10	2016-10-10	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-10	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Pyrene	< 0.02		0.02	µg/L	2016-10-10	2016-10-10	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-10	
Surrogate: Acridine-d9	76		60-130	%	2016-10-10	2016-10-10	
Surrogate: Naphthalene-d8	87		60-130	%	2016-10-10	2016-10-10	
Surrogate: Perylene-d12	124		60-130	%	2016-10-10	2016-10-10	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Chloroform	<b>2.3 ± 0.9</b>		1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	

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**Sample ID: FB (6100550-05) [Water] Sampled: 2016-10-08 17:45, Continued**

**Volatile Organic Compounds (VOC), Continued**

1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	96		70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	97		70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	103		70-130	%	N/A	2016-10-11	

**Sample ID: SW1 (6100550-06) [Water] Sampled: 2016-10-09 09:00**

**General Parameters**

Chloride	129 ± 9		2	mg/L	N/A	2016-10-11	
Conductivity (EC)	1060 ± 73		2	µS/cm	N/A	2016-10-11	
pH	7.26 ± 0.03		0.01	pH units	N/A	2016-10-11	HT2
Solids, Total Suspended	< 2		2	mg/L	N/A	2016-10-11	
Turbidity	1.79 ± 0.23		0.10	NTU	N/A	2016-10-11	

**Calculated Parameters**

Hardness, Total (as CaCO3)	413		0.50	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Antimony, dissolved	0.0005 ± 0.0001		0.0001	mg/L	N/A	2016-10-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-11	
Barium, dissolved	0.049 ± 0.006		0.005	mg/L	N/A	2016-10-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Boron, dissolved	0.042 ± 0.008		0.004	mg/L	N/A	2016-10-11	
Cadmium, dissolved	0.00004 ± 0.00001		0.00001	mg/L	N/A	2016-10-11	
Calcium, dissolved	129 ± 20		0.2	mg/L	N/A	2016-10-11	
Chromium, dissolved	0.0006 ± 0.0002		0.0005	mg/L	N/A	2016-10-11	
Cobalt, dissolved	0.00076 ± 0.00008		0.00005	mg/L	N/A	2016-10-11	
Copper, dissolved	0.0014 ± 0.0004		0.0002	mg/L	N/A	2016-10-11	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Lithium, dissolved	0.0003 ± 0.0001		0.0001	mg/L	N/A	2016-10-11	
Magnesium, dissolved	22.4 ± 3.6		0.01	mg/L	N/A	2016-10-11	
Manganese, dissolved	0.117 ± 0.013		0.0002	mg/L	N/A	2016-10-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, dissolved	0.0027 ± 0.0002		0.0001	mg/L	N/A	2016-10-11	
Nickel, dissolved	0.0020 ± 0.0003		0.0002	mg/L	N/A	2016-10-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-11	
Potassium, dissolved	3.46 ± 0.47		0.02	mg/L	N/A	2016-10-11	
Selenium, dissolved	0.0006 ± 0.0002		0.0005	mg/L	N/A	2016-10-11	
Silicon, dissolved	4.0 ± 1.8		0.5	mg/L	N/A	2016-10-11	

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**Sample ID: SW1 (6100550-06) [Water] Sampled: 2016-10-09 09:00, Continued**

**Dissolved Metals, Continued**

Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-11	
Sodium, dissolved	<b>59.6</b>	± 9.1	0.02	mg/L	N/A	2016-10-11	
Strontium, dissolved	<b>0.506</b>	± 0.052	0.001	mg/L	N/A	2016-10-11	
Sulfur, dissolved	<b>92</b>	± 2240	1	mg/L	N/A	2016-10-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-11	
Uranium, dissolved	<b>0.00159</b>	± 0.00021	0.00002	mg/L	N/A	2016-10-11	
Vanadium, dissolved	<b>0.002</b>		0.001	mg/L	N/A	2016-10-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-11	

**Total Metals**

Aluminum, total	<b>0.064</b>	± 0.014	0.005	mg/L	2016-10-11	2016-10-11	
Antimony, total	<b>0.0005</b>	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-11	2016-10-11	
Barium, total	<b>0.052</b>	± 0.008	0.005	mg/L	2016-10-11	2016-10-11	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Boron, total	<b>0.055</b>	± 0.011	0.004	mg/L	2016-10-11	2016-10-11	
Cadmium, total	<b>0.00005</b>	± 0.00002	0.00001	mg/L	2016-10-11	2016-10-11	
Calcium, total	<b>149</b>	± 17	0.2	mg/L	2016-10-11	2016-10-11	
Chromium, total	<b>0.0007</b>	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Cobalt, total	<b>0.00089</b>	± 0.00008	0.00005	mg/L	2016-10-11	2016-10-11	
Copper, total	<b>0.0020</b>	± 0.0003	0.0002	mg/L	2016-10-11	2016-10-11	
Iron, total	<b>0.07</b>	± 0.02	0.01	mg/L	2016-10-11	2016-10-11	
Lead, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	
Lithium, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2016-10-11	2016-10-11	
Magnesium, total	<b>24.7</b>	± 3.6	0.01	mg/L	2016-10-11	2016-10-11	
Manganese, total	<b>0.134</b>	± 0.012	0.0002	mg/L	2016-10-11	2016-10-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Molybdenum, total	<b>0.0030</b>	± 0.0002	0.0001	mg/L	2016-10-11	2016-10-11	
Nickel, total	<b>0.0021</b>	± 0.0002	0.0002	mg/L	2016-10-11	2016-10-11	
Phosphorus, total	< 0.02		0.02	mg/L	2016-10-11	2016-10-11	
Potassium, total	<b>3.62</b>	± 0.41	0.02	mg/L	2016-10-11	2016-10-11	
Selenium, total	<b>0.0006</b>	± 0.0001	0.0005	mg/L	2016-10-11	2016-10-11	
Silicon, total	<b>4.3</b>	± 1.6	0.5	mg/L	2016-10-11	2016-10-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-11	2016-10-11	
Sodium, total	<b>62.1</b>	± 9.2	0.02	mg/L	2016-10-11	2016-10-11	
Strontium, total	<b>0.528</b>	± 0.049	0.001	mg/L	2016-10-11	2016-10-11	
Sulfur, total	<b>95</b>	± 32600	1	mg/L	2016-10-11	2016-10-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Thallium, total	< 0.00002		0.00002	mg/L	2016-10-11	2016-10-11	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	

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Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: SW1 (6100550-06) [Water] Sampled: 2016-10-09 09:00, Continued**

**Total Metals, Continued**

Tin, total	< 0.0002		0.0002	mg/L	2016-10-11	2016-10-11	
Titanium, total	< 0.005		0.005	mg/L	2016-10-11	2016-10-11	
Uranium, total	<b>0.00176</b>	± 0.00011	0.00002	mg/L	2016-10-11	2016-10-11	
Vanadium, total	<b>0.002</b>		0.001	mg/L	2016-10-11	2016-10-11	
Zinc, total	< 0.004		0.004	mg/L	2016-10-11	2016-10-11	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-10-11	2016-10-11	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-10	2016-10-10	
EPHw19-32	< 250		250	µg/L	2016-10-10	2016-10-10	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	88		60-140	%	2016-10-10	2016-10-10	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-11	
Surrogate: Tetramethylene Glycol	79		66-125	%	N/A	2016-10-11	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-10	2016-10-11	
Acridine	< 0.10		0.10	µg/L	2016-10-10	2016-10-11	
Anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-11	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-10	2016-10-11	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-10	2016-10-11	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Chrysene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-10	2016-10-11	
Fluorene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-10	2016-10-11	
Naphthalene	< 0.20		0.20	µg/L	2016-10-10	2016-10-11	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-10	2016-10-11	
Pyrene	< 0.02		0.02	µg/L	2016-10-10	2016-10-11	
Quinoline	< 0.10		0.10	µg/L	2016-10-10	2016-10-11	
Surrogate: Acridine-d9	67		60-130	%	2016-10-10	2016-10-11	
Surrogate: Naphthalene-d8	93		60-130	%	2016-10-10	2016-10-11	
Surrogate: Perylene-d12	123		60-130	%	2016-10-10	2016-10-11	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-11	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-11	



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Analyte	Result / Estimate of Recovery Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: SW1 (6100550-06) [Water] Sampled: 2016-10-09 09:00, Continued**

**Volatile Organic Compounds (VOC), Continued**

Bromoform	< 1.0	1.0	µg/L	N/A	2016-10-11	
Bromomethane	< 2.0	2.0	µg/L	N/A	2016-10-11	
Carbon tetrachloride	< 1.0	1.0	µg/L	N/A	2016-10-11	
Chlorobenzene	< 1.0	1.0	µg/L	N/A	2016-10-11	
Chloroethane	< 2.0	2.0	µg/L	N/A	2016-10-11	
Chloroform	< 1.0	1.0	µg/L	N/A	2016-10-11	
Chloromethane	< 2.0	2.0	µg/L	N/A	2016-10-11	
Dibromochloromethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,2-Dibromoethane	< 0.3	0.3	µg/L	N/A	2016-10-11	
Dibromomethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,2-Dichlorobenzene	< 0.5	0.5	µg/L	N/A	2016-10-11	
1,3-Dichlorobenzene	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,4-Dichlorobenzene	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,2-Dichloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1-Dichloroethene	< 1.0	1.0	µg/L	N/A	2016-10-11	
cis-1,2-Dichloroethene	< 1.0	1.0	µg/L	N/A	2016-10-11	
trans-1,2-Dichloroethene	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,2-Dichloropropane	< 1.0	1.0	µg/L	N/A	2016-10-11	
cis-1,3-Dichloropropene	< 1.0	1.0	µg/L	N/A	2016-10-11	
trans-1,3-Dichloropropene	< 1.0	1.0	µg/L	N/A	2016-10-11	
Ethylbenzene	< 1.0	1.0	µg/L	N/A	2016-10-11	
Methyl tert-butyl ether	< 1.0	1.0	µg/L	N/A	2016-10-11	
Methylene chloride	< 3.0	3.0	µg/L	N/A	2016-10-11	
Styrene	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
Tetrachloroethene	< 1.0	1.0	µg/L	N/A	2016-10-11	
Toluene	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1,1-Trichloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
1,1,2-Trichloroethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
Trichloroethene	< 1.0	1.0	µg/L	N/A	2016-10-11	
Trichlorofluoromethane	< 1.0	1.0	µg/L	N/A	2016-10-11	
Vinyl chloride	< 2.0	2.0	µg/L	N/A	2016-10-11	
Xylenes (total)	< 2.0	2.0	µg/L	N/A	2016-10-11	
Surrogate: Toluene-d8	96	70-130	%	N/A	2016-10-11	
Surrogate: 4-Bromofluorobenzene	96	70-130	%	N/A	2016-10-11	
Surrogate: 1,4-Dichlorobenzene-d4	103	70-130	%	N/A	2016-10-11	

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**Sample / Analysis Qualifiers:**

- CT5 This sample has been incorrectly preserved for Dissolved mercury analysis
- F1 The sample was not field-filtered and was therefore filtered through a 0.45 µm membrane in the laboratory and preserved with HNO3 prior to analysis for dissolved metals.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** Laboratory reagent water is carried through sample preparation and analysis steps. Method Blanks indicate that results are free from contamination, i.e. not biased high from sources such as the sample container or the laboratory environment
- **Duplicate (Dup):** Preparation and analysis of a replicate aliquot of a sample. Duplicates provide a measure of the analytical method's precision, i.e. how reproducible a result is. Duplicates are only reported if they are associated with your sample data.
- **Blank Spike (BS):** A known amount of standard is carried through sample preparation and analysis steps. Blank Spikes, also known as laboratory control samples (LCS), are prepared from a different source of standard than used for the calibration. They ensure that the calibration is acceptable (i.e. not biased high or low) and also provide a measure of the analytical method's accuracy (i.e. closeness of the result to a target value).
- **Standard Reference Material (SRM):** A material of similar matrix to the samples, externally certified for the parameter(s) listed. Standard Reference Materials ensure that the preparation steps in the method are adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**BCMOE Aggregate Hydrocarbons, Batch B6J0529**

Blank (B6J0529-BLK1) Prepared: 2016-10-10, Analyzed: 2016-10-10									
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane	388	µg/L	444		87	60-140			
LCS (B6J0529-BS2) Prepared: 2016-10-10, Analyzed: 2016-10-10									
EPHw10-19	17300	250 µg/L	15500		111	70-130			
EPHw19-32	19800	250 µg/L	22200		89	70-130			
Surrogate: 2-Methylnonane	428	µg/L	444		96	60-140			

**Dissolved Metals, Batch B6J0536**

Blank (B6J0536-BLK1) Prepared: 2016-10-11, Analyzed: 2016-10-11									
Aluminum, dissolved	< 0.005	0.005 mg/L							
Antimony, dissolved	< 0.0001	0.0001 mg/L							
Arsenic, dissolved	< 0.0005	0.0005 mg/L							
Barium, dissolved	< 0.005	0.005 mg/L							
Beryllium, dissolved	< 0.0001	0.0001 mg/L							
Bismuth, dissolved	< 0.0001	0.0001 mg/L							
Boron, dissolved	< 0.004	0.004 mg/L							
Cadmium, dissolved	< 0.00001	0.00001 mg/L							
Calcium, dissolved	< 0.2	0.2 mg/L							
Chromium, dissolved	< 0.0005	0.0005 mg/L							
Cobalt, dissolved	< 0.00005	0.00005 mg/L							
Copper, dissolved	< 0.0002	0.0002 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.0001	0.0001 mg/L							
Lithium, dissolved	< 0.0001	0.0001 mg/L							
Magnesium, dissolved	< 0.01	0.01 mg/L							
Manganese, dissolved	< 0.0002	0.0002 mg/L							
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Molybdenum, dissolved	< 0.0001	0.0001 mg/L							
Nickel, dissolved	< 0.0002	0.0002 mg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6J0536, Continued</b>									
<b>Blank (B6J0536-BLK1), Continued</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Phosphorus, dissolved	< 0.02	0.02 mg/L							
Potassium, dissolved	< 0.02	0.02 mg/L							
Selenium, dissolved	< 0.0005	0.0005 mg/L							
Silicon, dissolved	< 0.5	0.5 mg/L							
Silver, dissolved	< 0.00005	0.00005 mg/L							
Sodium, dissolved	< 0.02	0.02 mg/L							
Strontium, dissolved	< 0.001	0.001 mg/L							
Sulfur, dissolved	< 1	1 mg/L							
Tellurium, dissolved	< 0.0002	0.0002 mg/L							
Thallium, dissolved	< 0.00002	0.00002 mg/L							
Thorium, dissolved	< 0.0001	0.0001 mg/L							
Tin, dissolved	< 0.0002	0.0002 mg/L							
Titanium, dissolved	< 0.005	0.005 mg/L							
Uranium, dissolved	< 0.00002	0.00002 mg/L							
Vanadium, dissolved	< 0.001	0.001 mg/L							
Zinc, dissolved	< 0.004	0.004 mg/L							
Zirconium, dissolved	< 0.0001	0.0001 mg/L							
<b>Duplicate (B6J0536-DUP1)</b>					Source: 6100550-02 Prepared: 2016-10-11, Analyzed: 2016-10-11				
Aluminum, dissolved	0.020	0.005 mg/L		0.022				11	
Antimony, dissolved	0.0003	0.0001 mg/L		0.0004				44	
Arsenic, dissolved	< 0.0005	0.0005 mg/L		< 0.0005				8	
Barium, dissolved	0.009	0.005 mg/L		0.009				7	
Beryllium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				14	
Bismuth, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				20	
Boron, dissolved	0.025	0.004 mg/L		0.026		5		13	
Cadmium, dissolved	0.00002	0.00001 mg/L		0.00003				27	
Calcium, dissolved	29.6	0.2 mg/L		31.6		6		8	
Chromium, dissolved	0.0006	0.0005 mg/L		0.0006				14	
Cobalt, dissolved	0.00227	0.00005 mg/L		0.00170			29	10	RPD
Copper, dissolved	0.0017	0.0002 mg/L		0.0017		< 1		28	
Iron, dissolved	0.027	0.010 mg/L		0.024				14	
Lead, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				26	
Lithium, dissolved	0.0002	0.0001 mg/L		0.0002				14	
Magnesium, dissolved	4.60	0.01 mg/L		4.79		4		6	
Manganese, dissolved	0.0139	0.0002 mg/L		0.0154		10		9	RPD
Mercury, dissolved	0.00008	0.00002 mg/L		0.00003				20	
Molybdenum, dissolved	0.0016	0.0001 mg/L		0.0017		8		19	
Nickel, dissolved	0.0007	0.0002 mg/L		0.0008				21	
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02				14	
Potassium, dissolved	2.43	0.02 mg/L		2.54		4		8	
Selenium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005				36	
Silicon, dissolved	0.9	0.5 mg/L		1.1				12	
Silver, dissolved	< 0.00005	0.00005 mg/L		< 0.00005				20	
Sodium, dissolved	11.7	0.02 mg/L		12.2		4		6	
Strontium, dissolved	0.140	0.001 mg/L		0.146		4		6	
Sulfur, dissolved	23	1 mg/L		26		11		26	
Tellurium, dissolved	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, dissolved	< 0.00002	0.00002 mg/L		< 0.00002				13	
Thorium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				30	
Tin, dissolved	< 0.0002	0.0002 mg/L		< 0.0002				6	
Titanium, dissolved	< 0.005	0.005 mg/L		< 0.005				20	
Uranium, dissolved	0.00006	0.00002 mg/L		0.00006				14	
Vanadium, dissolved	0.001	0.001 mg/L		0.001				20	
Zinc, dissolved	< 0.004	0.004 mg/L		< 0.004				11	
Zirconium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				36	

**APPENDIX 1: QUALITY CONTROL DATA**

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6J0536, Continued**

Matrix Spike (B6J0536-MS1)	Source: 6100550-03		Prepared: 2016-10-11, Analyzed: 2016-10-11						
Antimony, dissolved	0.366	0.0001 mg/L	0.400	0.0003	92	76-114			
Arsenic, dissolved	0.201	0.0005 mg/L	0.200	< 0.0005	100	81-115			
Barium, dissolved	1.02	0.005 mg/L	1.00	0.066	95	80-113			
Beryllium, dissolved	0.0903	0.0001 mg/L	0.100	< 0.0001	90	69-109			
Cadmium, dissolved	0.0931	0.00001 mg/L	0.100	0.00002	93	83-110			
Chromium, dissolved	0.387	0.0005 mg/L	0.400	0.0005	97	85-115			
Cobalt, dissolved	0.393	0.00005 mg/L	0.400	0.00200	98	86-114			
Copper, dissolved	0.393	0.0002 mg/L	0.400	0.0014	98	82-119			
Iron, dissolved	2.57	0.010 mg/L	2.00	0.136	122	80-116			SPK1
Lead, dissolved	0.192	0.0001 mg/L	0.200	< 0.0001	96	83-112			
Manganese, dissolved	0.815	0.0002 mg/L	0.400	0.435	95	62-131			
Nickel, dissolved	0.384	0.0002 mg/L	0.400	0.0016	96	81-115			
Selenium, dissolved	0.0908	0.0005 mg/L	0.100	< 0.0005	91	79-115			
Silver, dissolved	0.0984	0.00005 mg/L	0.100	< 0.00005	98	69-121			
Thallium, dissolved	0.0946	0.00002 mg/L	0.100	< 0.00002	95	84-115			
Vanadium, dissolved	0.384	0.001 mg/L	0.400	< 0.001	96	83-113			
Zinc, dissolved	0.955	0.004 mg/L	1.00	< 0.004	96	82-115			

Reference (B6J0536-SRM1)	Prepared: 2016-10-11, Analyzed: 2016-10-11								
Aluminum, dissolved	0.279	0.005 mg/L	0.233		120	58-142			
Antimony, dissolved	0.0436	0.0001 mg/L	0.0430		101	75-125			
Arsenic, dissolved	0.435	0.0005 mg/L	0.438		99	81-119			
Barium, dissolved	3.32	0.005 mg/L	3.35		99	83-117			
Beryllium, dissolved	0.208	0.0001 mg/L	0.213		98	80-120			
Boron, dissolved	1.53	0.004 mg/L	1.74		88	74-117			
Cadmium, dissolved	0.225	0.00001 mg/L	0.224		100	83-117			
Calcium, dissolved	7.5	0.2 mg/L	7.69		97	76-124			
Chromium, dissolved	0.418	0.0005 mg/L	0.437		96	81-119			
Cobalt, dissolved	0.127	0.00005 mg/L	0.128		100	76-124			
Copper, dissolved	0.853	0.0002 mg/L	0.844		101	84-116			
Iron, dissolved	1.43	0.010 mg/L	1.29		111	74-126			
Lead, dissolved	0.111	0.0001 mg/L	0.112		100	72-128			
Lithium, dissolved	0.106	0.0001 mg/L	0.104		102	60-140			
Magnesium, dissolved	6.72	0.01 mg/L	6.92		97	81-119			
Manganese, dissolved	0.340	0.0002 mg/L	0.345		99	84-116			
Molybdenum, dissolved	0.406	0.0001 mg/L	0.426		95	83-117			
Nickel, dissolved	0.836	0.0002 mg/L	0.840		99	74-126			
Phosphorus, dissolved	0.42	0.02 mg/L	0.495		84	68-132			
Potassium, dissolved	2.99	0.02 mg/L	3.19		94	74-126			
Selenium, dissolved	0.0354	0.0005 mg/L	0.0331		107	70-130			
Sodium, dissolved	18.7	0.02 mg/L	19.1		98	72-128			
Strontium, dissolved	0.865	0.001 mg/L	0.916		94	84-113			
Thallium, dissolved	0.0386	0.00002 mg/L	0.0393		98	57-143			
Uranium, dissolved	0.263	0.00002 mg/L	0.266		99	85-115			
Vanadium, dissolved	0.839	0.001 mg/L	0.869		96	87-113			
Zinc, dissolved	0.876	0.004 mg/L	0.881		99	72-128			

**Dissolved Metals, Batch B6J0568**

Blank (B6J0568-BLK1)	Prepared: 2016-10-11, Analyzed: 2016-10-11								
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Duplicate (B6J0568-DUP1)	Source: 6100550-03		Prepared: 2016-10-11, Analyzed: 2016-10-11						
Mercury, dissolved	< 0.00002	0.00002 mg/L		< 0.00002					20

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6J0568, Continued</b>									
<b>Matrix Spike (B6J0568-MS1)</b>			<b>Source: 6100550-04</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11				
Mercury, dissolved	0.00025	0.00002 mg/L	0.000250	< 0.00002	98	70-130			
<b>Reference (B6J0568-SRM1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Mercury, dissolved	0.00489	0.00002 mg/L	0.00486		101	50-150			
<b>General Parameters, Batch B6J0548</b>									
<b>Blank (B6J0548-BLK1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B6J0548-BS1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Turbidity	10.7	0.10 NTU	10.0		107	82-115			
<b>Duplicate (B6J0548-DUP1)</b>			<b>Source: 6100550-04</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11				
Turbidity	6.85	0.10 NTU		6.41			7	18	
<b>General Parameters, Batch B6J0549</b>									
<b>Reference (B6J0549-SRM1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
pH	7.01	0.01 pH units	7.02		100	98-102			
<b>Reference (B6J0549-SRM2)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
pH	7.02	0.01 pH units	7.02		100	98-102			
<b>General Parameters, Batch B6J0550</b>									
<b>Blank (B6J0550-BLK1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Conductivity (EC)	< 2	2 µS/cm							
<b>LCS (B6J0550-BS1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Conductivity (EC)	148	2 µS/cm	147		101	88-112			
<b>Reference (B6J0550-SRM1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Conductivity (EC)	1000	2 µS/cm	1000		100	90-110			
<b>General Parameters, Batch B6J0551</b>									
<b>Blank (B6J0551-BLK1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Solids, Total Suspended	< 2	2 mg/L							
<b>Blank (B6J0551-BLK2)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Solids, Total Suspended	< 2	2 mg/L							
<b>LCS (B6J0551-BS1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Solids, Total Suspended	45	2 mg/L	50.4		90	83-107			
<b>LCS (B6J0551-BS2)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Solids, Total Suspended	47	2 mg/L	54.8		85	83-107			
<b>General Parameters, Batch B6J0555</b>									
<b>Blank (B6J0555-BLK1)</b>					Prepared: 2016-10-11, Analyzed: 2016-10-11				
Chloride	< 2	2 mg/L							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**General Parameters, Batch B6J0555, Continued**

**LCS (B6J0555-BS1)**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Chloride	20	2 mg/L	20.0		98	90-110			
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**Glycols, Batch B6J0539**

**Blank (B6J0539-BLK1)**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Propylene glycol	< 5	5 mg/L							
Ethylene glycol	< 5	5 mg/L							
Diethylene glycol	< 5	5 mg/L							
Triethylene glycol	< 5	5 mg/L							
Surrogate: Tetramethylene Glycol	96.9	mg/L	95.6		101	66-125			

**LCS (B6J0539-BS1)**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Propylene glycol	51	5 mg/L	50.0		101	71-114			
Ethylene glycol	48	5 mg/L	49.9		95	82-124			
Diethylene glycol	46	5 mg/L	50.0		92	80-116			
Triethylene glycol	45	5 mg/L	49.8		91	73-120			
Surrogate: Tetramethylene Glycol	92.4	mg/L	95.6		97	66-125			

**LCS Dup (B6J0539-BSD1)**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Propylene glycol	59	5 mg/L	50.0		118	71-114	15	20	SPK1
Ethylene glycol	49	5 mg/L	49.9		98	82-124	3	20	
Diethylene glycol	49	5 mg/L	50.0		98	80-116	6	20	
Triethylene glycol	52	5 mg/L	49.8		104	73-120	13	20	
Surrogate: Tetramethylene Glycol	95.9	mg/L	95.6		100	66-125			

**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J0529**

**Blank (B6J0529-BLK1)**

Prepared: 2016-10-10, Analyzed: 2016-10-10

Acenaphthene	< 0.05	0.05 µg/L							
Acenaphthylene	< 0.20	0.20 µg/L							
Acridine	< 0.10	0.10 µg/L							
Anthracene	< 0.01	0.01 µg/L							
Benz (a) anthracene	< 0.01	0.01 µg/L							
Benzo (a) pyrene	< 0.01	0.01 µg/L							
Benzo (b) fluoranthene	< 0.05	0.05 µg/L							
Benzo (g,h,i) perylene	< 0.05	0.05 µg/L							
Benzo (k) fluoranthene	< 0.05	0.05 µg/L							
Chrysene	< 0.05	0.05 µg/L							
Dibenz (a,h) anthracene	< 0.05	0.05 µg/L							
Fluoranthene	< 0.03	0.03 µg/L							
Fluorene	< 0.05	0.05 µg/L							
Indeno (1,2,3-cd) pyrene	< 0.05	0.05 µg/L							
Naphthalene	< 0.20	0.20 µg/L							
Phenanthrene	< 0.10	0.10 µg/L							
Pyrene	< 0.02	0.02 µg/L							
Quinoline	< 0.10	0.10 µg/L							
Surrogate: Acridine-d9	3.48	µg/L	4.44		78	60-130			
Surrogate: Naphthalene-d8	4.22	µg/L	4.44		95	60-130			
Surrogate: Perylene-d12	5.52	µg/L	4.44		124	60-130			

**LCS (B6J0529-BS1)**

Prepared: 2016-10-10, Analyzed: 2016-10-10

Acenaphthene	4.04	0.05 µg/L	4.44		91	70-130			
Acenaphthylene	3.84	0.20 µg/L	4.44		86	70-130			
Acridine	3.81	0.10 µg/L	4.44		86	60-130			
Anthracene	4.19	0.01 µg/L	4.44		94	70-130			
Benz (a) anthracene	4.08	0.01 µg/L	4.44		92	70-130			

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J0529, Continued**

**LCS (B6J0529-BS1), Continued**

Prepared: 2016-10-10, Analyzed: 2016-10-10

Benzo (a) pyrene	4.77	0.01 µg/L	4.44		107	70-130			
Benzo (b) fluoranthene	4.24	0.05 µg/L	4.44		95	70-130			
Benzo (g,h,i) perylene	5.25	0.05 µg/L	4.44		118	70-130			
Benzo (k) fluoranthene	4.48	0.05 µg/L	4.44		101	70-130			
Chrysene	4.26	0.05 µg/L	4.44		96	70-130			
Dibenz (a,h) anthracene	4.81	0.05 µg/L	4.44		108	70-130			
Fluoranthene	4.45	0.03 µg/L	4.44		100	70-130			
Fluorene	3.76	0.05 µg/L	4.44		85	70-130			
Indeno (1,2,3-cd) pyrene	4.85	0.05 µg/L	4.44		109	70-130			
Naphthalene	4.13	0.20 µg/L	4.44		93	70-130			
Phenanthrene	4.38	0.10 µg/L	4.44		99	70-130			
Pyrene	4.53	0.02 µg/L	4.44		102	70-130			
Quinoline	4.43	0.10 µg/L	4.44		100	70-130			
Surrogate: Acridine-d9	3.51	µg/L	4.44		79	60-130			
Surrogate: Naphthalene-d8	4.12	µg/L	4.44		93	60-130			
Surrogate: Perylene-d12	5.30	µg/L	4.44		119	60-130			

**LCS Dup (B6J0529-BSD1)**

Prepared: 2016-10-10, Analyzed: 2016-10-10

Acenaphthene	3.90	0.05 µg/L	4.44		88	70-130	4	20	
Acenaphthylene	3.70	0.20 µg/L	4.44		83	70-130	4	20	
Acridine	3.66	0.10 µg/L	4.44		82	60-130	4	20	
Anthracene	4.06	0.01 µg/L	4.44		91	70-130	3	20	
Benz (a) anthracene	4.01	0.01 µg/L	4.44		90	70-130	2	20	
Benzo (a) pyrene	4.75	0.01 µg/L	4.44		107	70-130	< 1	20	
Benzo (b) fluoranthene	4.42	0.05 µg/L	4.44		99	70-130	4	20	
Benzo (g,h,i) perylene	4.83	0.05 µg/L	4.44		109	70-130	8	20	
Benzo (k) fluoranthene	4.23	0.05 µg/L	4.44		95	70-130	6	20	
Chrysene	4.21	0.05 µg/L	4.44		95	70-130	1	20	
Dibenz (a,h) anthracene	4.45	0.05 µg/L	4.44		100	70-130	8	20	
Fluoranthene	4.33	0.03 µg/L	4.44		98	70-130	3	20	
Fluorene	3.66	0.05 µg/L	4.44		82	70-130	3	20	
Indeno (1,2,3-cd) pyrene	4.80	0.05 µg/L	4.44		108	70-130	1	20	
Naphthalene	3.94	0.20 µg/L	4.44		89	70-130	5	20	
Phenanthrene	4.23	0.10 µg/L	4.44		95	70-130	3	20	
Pyrene	4.42	0.02 µg/L	4.44		99	70-130	3	20	
Quinoline	4.36	0.10 µg/L	4.44		98	70-130	1	20	
Surrogate: Acridine-d9	3.40	µg/L	4.44		76	60-130			
Surrogate: Naphthalene-d8	3.95	µg/L	4.44		89	60-130			
Surrogate: Perylene-d12	5.31	µg/L	4.44		119	60-130			

**Total Metals, Batch B6J0535**

**Blank (B6J0535-BLK1)**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Aluminum, total	< 0.005	0.005 mg/L							
Antimony, total	< 0.0001	0.0001 mg/L							
Arsenic, total	< 0.0005	0.0005 mg/L							
Barium, total	< 0.005	0.005 mg/L							
Beryllium, total	< 0.0001	0.0001 mg/L							
Bismuth, total	< 0.0001	0.0001 mg/L							
Boron, total	< 0.004	0.004 mg/L							
Cadmium, total	< 0.00001	0.00001 mg/L							
Calcium, total	< 0.2	0.2 mg/L							
Chromium, total	< 0.0005	0.0005 mg/L							
Cobalt, total	< 0.00005	0.00005 mg/L							
Copper, total	< 0.0002	0.0002 mg/L							
Iron, total	< 0.01	0.01 mg/L							



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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Total Metals, Batch B6J0535, Continued**

**Blank (B6J0535-BLK1), Continued**

Prepared: 2016-10-11, Analyzed: 2016-10-11

Lead, total	< 0.0001	0.0001 mg/L							
Lithium, total	< 0.0001	0.0001 mg/L							
Magnesium, total	< 0.01	0.01 mg/L							
Manganese, total	< 0.0002	0.0002 mg/L							
Molybdenum, total	< 0.0001	0.0001 mg/L							
Nickel, total	< 0.0002	0.0002 mg/L							
Phosphorus, total	< 0.02	0.02 mg/L							
Potassium, total	< 0.02	0.02 mg/L							
Selenium, total	< 0.0005	0.0005 mg/L							
Silicon, total	< 0.5	0.5 mg/L							
Silver, total	< 0.00005	0.00005 mg/L							
Sodium, total	< 0.02	0.02 mg/L							
Strontium, total	< 0.001	0.001 mg/L							
Sulfur, total	< 1	1 mg/L							
Tellurium, total	< 0.0002	0.0002 mg/L							
Thallium, total	< 0.00002	0.00002 mg/L							
Thorium, total	< 0.0001	0.0001 mg/L							
Tin, total	< 0.0002	0.0002 mg/L							
Titanium, total	< 0.005	0.005 mg/L							
Uranium, total	< 0.00002	0.00002 mg/L							
Vanadium, total	< 0.001	0.001 mg/L							
Zinc, total	< 0.004	0.004 mg/L							
Zirconium, total	< 0.0001	0.0001 mg/L							

**Duplicate (B6J0535-DUP1)**

Source: 6100550-02

Prepared: 2016-10-11, Analyzed: 2016-10-11

Aluminum, total	13.2	0.005 mg/L		13.7		4		29	
Antimony, total	0.0005	0.0001 mg/L		0.0006		13		31	
Arsenic, total	0.0027	0.0005 mg/L		0.0026		4		15	
Barium, total	0.082	0.005 mg/L		0.085		3		9	
Beryllium, total	0.0002	0.0001 mg/L		0.0002				16	
Bismuth, total	< 0.0001	0.0001 mg/L		< 0.0001				20	
Boron, total	0.038	0.004 mg/L		0.035		7		29	
Cadmium, total	0.00013	0.00001 mg/L		0.00010		20		33	
Calcium, total	36.3	0.2 mg/L		36.2		< 1		12	
Chromium, total	0.0265	0.0005 mg/L		0.0276		4		12	
Cobalt, total	0.00906	0.00005 mg/L		0.00871		4		13	
Copper, total	0.0304	0.0002 mg/L		0.0307		1		37	
Iron, total	14.4	0.01 mg/L		14.8		3		18	
Lead, total	0.0111	0.0001 mg/L		0.0113		2		23	
Lithium, total	0.0072	0.0001 mg/L		0.0073		< 1		19	
Magnesium, total	10.2	0.01 mg/L		10.5		3		10	
Manganese, total	0.253	0.0002 mg/L		0.260		3		13	
Molybdenum, total	0.0019	0.0001 mg/L		0.0018		4		20	
Nickel, total	0.0195	0.0002 mg/L		0.0199		2		28	
Phosphorus, total	0.23	0.02 mg/L		0.21		10		24	
Potassium, total	4.20	0.02 mg/L		4.35		4		13	
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	25.2	0.5 mg/L		26.0		3		11	
Silver, total	0.00005	0.00005 mg/L		< 0.00005				18	
Sodium, total	12.9	0.02 mg/L		13.5		5		10	
Strontium, total	0.166	0.001 mg/L		0.172		3		9	
Sulfur, total	25	1 mg/L		25		2		24	
Tellurium, total	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, total	0.00005	0.00002 mg/L		0.00005				24	
Thorium, total	0.0006	0.0001 mg/L		0.0005		7		18	
Tin, total	0.0005	0.0002 mg/L		0.0005				18	
Titanium, total	0.688	0.005 mg/L		0.737		7		32	

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B6J0535, Continued</b>									
<b>Duplicate (B6J0535-DUP1), Continued</b>		<b>Source: 6100550-02</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11					
Uranium, total	0.00035	0.00002 mg/L		0.00036			3	14	
Vanadium, total	0.038	0.001 mg/L		0.038			2	17	
Zinc, total	0.042	0.004 mg/L		0.043			4	8	
Zirconium, total	0.0074	0.0001 mg/L		0.0078			5	60	
<b>Matrix Spike (B6J0535-MS1)</b>		<b>Source: 6100550-06</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11					
Antimony, total	0.438	0.0001 mg/L	0.400	0.0005	109	84-125			
Arsenic, total	0.213	0.0005 mg/L	0.200	< 0.0005	106	85-116			
Barium, total	1.06	0.005 mg/L	1.00	0.052	101	87-114			
Beryllium, total	0.0948	0.0001 mg/L	0.100	< 0.0001	95	72-116			
Cadmium, total	0.0990	0.00001 mg/L	0.100	0.00005	99	90-112			
Chromium, total	0.410	0.0005 mg/L	0.400	0.0007	102	89-120			
Cobalt, total	0.418	0.00005 mg/L	0.400	0.00089	104	88-120			
Copper, total	0.425	0.0002 mg/L	0.400	0.0020	106	88-125			
Iron, total	2.30	0.01 mg/L	2.00	0.07	111	88-119			
Lead, total	0.205	0.0001 mg/L	0.200	< 0.0001	103	89-118			
Manganese, total	0.528	0.0002 mg/L	0.400	0.134	99	84-120			
Nickel, total	0.411	0.0002 mg/L	0.400	0.0021	102	87-119			
Selenium, total	0.100	0.0005 mg/L	0.100	0.0006	99	85-113			
Silver, total	0.106	0.00005 mg/L	0.100	< 0.00005	106	89-119			
Thallium, total	0.101	0.00002 mg/L	0.100	< 0.00002	101	92-119			
Vanadium, total	0.407	0.001 mg/L	0.400	0.002	101	87-117			
Zinc, total	1.02	0.004 mg/L	1.00	< 0.004	102	85-116			
<b>Reference (B6J0535-SRM1)</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11							
Aluminum, total	0.306	0.005 mg/L	0.303		101	81-129			
Antimony, total	0.0503	0.0001 mg/L	0.0511		98	88-114			
Arsenic, total	0.114	0.0005 mg/L	0.118		97	88-114			
Barium, total	0.762	0.005 mg/L	0.823		93	72-104			
Beryllium, total	0.0485	0.0001 mg/L	0.0496		98	76-131			
Boron, total	3.35	0.004 mg/L	3.45		97	75-121			
Cadmium, total	0.0487	0.00001 mg/L	0.0495		98	89-111			
Calcium, total	11.5	0.2 mg/L	11.6		99	86-121			
Chromium, total	0.237	0.0005 mg/L	0.250		95	89-114			
Cobalt, total	0.0374	0.00005 mg/L	0.0377		99	91-113			
Copper, total	0.498	0.0002 mg/L	0.486		102	91-115			
Iron, total	0.55	0.01 mg/L	0.488		113	77-124			
Lead, total	0.203	0.0001 mg/L	0.204		100	92-113			
Lithium, total	0.400	0.0001 mg/L	0.403		99	85-115			
Magnesium, total	3.87	0.01 mg/L	3.79		102	78-120			
Manganese, total	0.104	0.0002 mg/L	0.109		96	90-114			
Molybdenum, total	0.194	0.0001 mg/L	0.198		98	90-111			
Nickel, total	0.242	0.0002 mg/L	0.249		97	90-111			
Phosphorus, total	0.23	0.02 mg/L	0.227		100	85-115			
Potassium, total	6.88	0.02 mg/L	7.21		95	84-113			
Selenium, total	0.129	0.0005 mg/L	0.121		107	85-115			
Sodium, total	7.46	0.02 mg/L	7.54		99	82-123			
Strontium, total	0.352	0.001 mg/L	0.375		94	88-112			
Thallium, total	0.0812	0.00002 mg/L	0.0805		101	91-114			
Uranium, total	0.0306	0.00002 mg/L	0.0306		100	85-120			
Vanadium, total	0.364	0.001 mg/L	0.386		94	86-111			
Zinc, total	2.45	0.004 mg/L	2.49		98	85-111			

**Total Metals, Batch B6J0569**

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B6J0569, Continued</b>									
<b>Blank (B6J0569-BLK1)</b>			Prepared: 2016-10-11, Analyzed: 2016-10-11						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Duplicate (B6J0569-DUP1)</b>			Source: 6100550-04 Prepared: 2016-10-11, Analyzed: 2016-10-11						
Mercury, total	< 0.00002	0.00002 mg/L		< 0.00002				20	
<b>Matrix Spike (B6J0569-MS1)</b>			Source: 6100550-05 Prepared: 2016-10-11, Analyzed: 2016-10-11						
Mercury, total	0.00024	0.00002 mg/L	0.000250	< 0.00002	97	70-130			
<b>Reference (B6J0569-SRM1)</b>			Prepared: 2016-10-11, Analyzed: 2016-10-11						
Mercury, total	0.00483	0.00002 mg/L	0.00486		99	50-150			
<b>Volatile Organic Compounds (VOC), Batch B6J0553</b>									
<b>Blank (B6J0553-BLK1)</b>			Prepared: 2016-10-10, Analyzed: 2016-10-10						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 1.0	1.0 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Chloromethane	< 2.0	2.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L							
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Methylene chloride	< 3.0	3.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L							
Tetrachloroethene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 2.0	2.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	23.5	µg/L	25.0		94	70-130			
Surrogate: 4-Bromofluorobenzene	24.1	µg/L	25.0		97	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	23.3	µg/L	25.0		93	70-130			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Volatile Organic Compounds (VOC), Batch B6J0553, Continued**

<b>LCS (B6J0553-BS1)</b>		Prepared: 2016-10-11, Analyzed: 2016-10-11							
Benzene	22.8	0.5 µg/L	20.0		114	70-130			
Bromodichloromethane	19.9	1.0 µg/L	20.0		99	70-130			
Bromoform	15.6	1.0 µg/L	20.0		78	70-130			
Bromomethane	23.4	2.0 µg/L	20.0		117	70-130			
Carbon tetrachloride	18.4	1.0 µg/L	20.0		92	70-130			
Chlorobenzene	22.7	1.0 µg/L	20.0		114	70-130			
Chloroethane	24.8	2.0 µg/L	20.0		124	70-130			
Chloroform	19.9	1.0 µg/L	20.0		99	70-130			
Chloromethane	24.0	2.0 µg/L	20.0		120	70-130			
Dibromochloromethane	17.4	1.0 µg/L	20.0		87	70-130			
1,2-Dibromoethane	16.9	0.3 µg/L	20.0		85	70-130			
Dibromomethane	16.6	1.0 µg/L	20.0		83	70-130			
1,2-Dichlorobenzene	21.1	0.5 µg/L	20.0		105	70-130			
1,3-Dichlorobenzene	23.0	1.0 µg/L	20.0		115	70-130			
1,4-Dichlorobenzene	22.7	1.0 µg/L	20.0		114	70-130			
1,1-Dichloroethane	23.0	1.0 µg/L	20.0		115	70-130			
1,2-Dichloroethane	16.9	1.0 µg/L	20.0		85	70-130			
1,1-Dichloroethene	22.6	1.0 µg/L	20.0		113	70-130			
cis-1,2-Dichloroethene	21.8	1.0 µg/L	20.0		109	70-130			
trans-1,2-Dichloroethene	23.8	1.0 µg/L	20.0		119	70-130			
1,2-Dichloropropane	22.0	1.0 µg/L	20.0		110	70-130			
cis-1,3-Dichloropropene	20.6	1.0 µg/L	20.0		103	70-130			
trans-1,3-Dichloropropene	18.5	1.0 µg/L	20.0		92	70-130			
Ethylbenzene	22.4	1.0 µg/L	20.0		112	70-130			
Methyl tert-butyl ether	19.0	1.0 µg/L	20.0		95	70-130			
Methylene chloride	22.1	3.0 µg/L	20.0		110	70-130			
Styrene	20.9	1.0 µg/L	20.0		104	70-130			
1,1,1,2-Tetrachloroethane	19.6	1.0 µg/L	20.0		98	70-130			
1,1,2,2-Tetrachloroethane	9.6	1.0 µg/L	20.0		48	70-130			SPK
Tetrachloroethene	21.9	1.0 µg/L	20.0		109	70-130			
Toluene	22.7	1.0 µg/L	20.0		114	70-130			
1,1,1-Trichloroethane	20.7	1.0 µg/L	20.0		104	70-130			
1,1,2-Trichloroethane	18.3	1.0 µg/L	20.0		92	70-130			
Trichloroethene	25.6	1.0 µg/L	20.0		128	70-130			
Trichlorofluoromethane	22.9	1.0 µg/L	20.0		115	70-130			
Vinyl chloride	24.1	2.0 µg/L	20.0		120	70-130			
Xylenes (total)	67.7	2.0 µg/L	60.0		113	70-130			
Surrogate: Toluene-d8	25.4	µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.1	µg/L	25.0		104	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	27.2	µg/L	25.0		109	70-130			

<b>Duplicate (B6J0553-DUP1)</b>		Source: 6100550-01		Prepared: 2016-10-11, Analyzed: 2016-10-11					
Benzene	< 0.5	0.5 µg/L		< 0.5					20
Bromodichloromethane	< 1.0	1.0 µg/L		< 1.0					20
Bromoform	< 1.0	1.0 µg/L		< 1.0					20
Bromomethane	< 2.0	2.0 µg/L		< 2.0					20
Carbon tetrachloride	< 1.0	1.0 µg/L		< 1.0					20
Chlorobenzene	< 1.0	1.0 µg/L		< 1.0					20
Chloroethane	< 2.0	2.0 µg/L		< 2.0					20
Chloroform	< 1.0	1.0 µg/L		< 1.0					20
Chloromethane	< 2.0	2.0 µg/L		< 2.0					20
Dibromochloromethane	< 1.0	1.0 µg/L		< 1.0					20
1,2-Dibromoethane	< 0.3	0.3 µg/L		< 0.3					20
Dibromomethane	< 1.0	1.0 µg/L		< 1.0					20
1,2-Dichlorobenzene	< 0.5	0.5 µg/L		< 0.5					20
1,3-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0					20

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Volatile Organic Compounds (VOC), Batch B6J0553, Continued</b>									
<b>Duplicate (B6J0553-DUP1), Continued</b>		<b>Source: 6100550-01</b>		<b>Prepared: 2016-10-11, Analyzed: 2016-10-11</b>					
1,4-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0				20	
1,1-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dichloropropane	< 1.0	1.0 µg/L		< 1.0				20	
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L		< 1.0				20	
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L		< 1.0				20	
Ethylbenzene	< 1.0	1.0 µg/L		< 1.0				20	
Methyl tert-butyl ether	< 1.0	1.0 µg/L		< 1.0				20	
Methylene chloride	< 3.0	3.0 µg/L		< 3.0				20	
Styrene	< 1.0	1.0 µg/L		< 1.0				20	
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L		< 1.0				20	
Tetrachloroethene	< 1.0	1.0 µg/L		< 1.0				20	
Toluene	< 1.0	1.0 µg/L		< 1.0				20	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
Trichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				20	
Vinyl chloride	< 2.0	2.0 µg/L		< 2.0				20	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				20	
Surrogate: Toluene-d8	29.1	µg/L	25.0		116	70-130			
Surrogate: 4-Bromofluorobenzene	29.2	µg/L	25.0		117	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	31.0	µg/L	25.0		124	70-130			

**QC Qualifiers:**

- RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
- SPK The recovery of this analyte was outside of established control limits.
- SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.

**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

		6100550-01	6100550-02	6100550-03	6100550-04	6100550-05	6100550-06
		Water	Water	Water	Water	Water	Water
		2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-09
		PEA	Weir	SW1	SW1	FB	SW1
General Parameters	Chloride (mg/L)	44	13	228	94	< 2	129
	Conductivity (EC) (uS/cm)	1390	275	1360	861	3	1060
	pH (pH units)	6.72	7.35	7.22	7.33	7.21	7.26
	Solids, Total Suspended (mg/L)	25200	95	28	3	< 2	< 2
	Turbidity (NTU)	8960	416	45.8	6.41	0.35	1.79
Calculated Parameters	Hardness, Total (as CaCO3) (mg/L)	651	98.6	479	345	0.59	413
Dissolved Metals	Aluminum, dissolved (mg/L)	0.009	0.022	0.020	0.007	< 0.005	< 0.005
	Antimony, dissolved (mg/L)	0.0016	0.0004	0.0003	0.0004	< 0.0001	0.0005
	Arsenic, dissolved (mg/L)	0.0008	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.156	0.009	0.066	0.035	< 0.005	0.049
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.042	0.026	0.061	0.035	< 0.004	0.042
	Cadmium, dissolved (mg/L)	0.00006	0.00003	0.00002	0.00004	0.00002	0.00004
	Calcium, dissolved (mg/L)	234	31.6	148	109	0.2	129
	Chromium, dissolved (mg/L)	0.0016	0.0006	< 0.0005	0.0006	0.0006	0.0006
	Cobalt, dissolved (mg/L)	0.00311	0.00170	0.00200	0.00095	< 0.00005	0.00076
	Copper, dissolved (mg/L)	0.0041	0.0017	0.0014	0.0014	0.0005	0.0014
	Iron, dissolved (mg/L)	0.011	0.024	0.136	< 0.010	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0001	0.0002	0.0003	0.0002	< 0.0001	0.0003
	Magnesium, dissolved (mg/L)	16.2	4.79	26.5	17.9	0.02	22.4
	Manganese, dissolved (mg/L)	0.850	0.0154	0.435	0.155	0.0010	0.117
	Mercury, dissolved (mg/L)	0.00003	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0125	0.0017	0.0039	0.0027	< 0.0001	0.0027
	Nickel, dissolved (mg/L)	0.0034	0.0008	0.0016	0.0015	0.0002	0.0020
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	8.00	2.54	4.59	2.57	0.07	3.46
	Selenium, dissolved (mg/L)	0.0013	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0006
	Silicon, dissolved (mg/L)	3.7	1.1	4.5	3.9	< 0.5	4.0
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
	Sodium, dissolved (mg/L)	65.8	12.2	93.6	40.1	0.06	59.6
	Strontium, dissolved (mg/L)	1.09	0.146	0.609	0.376	< 0.001	0.506
	Sulfur, dissolved (mg/L)	252	26	82	70	< 1	92
	Tellurium, dissolved (mg/L)	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Thallium, dissolved (mg/L)	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
	Thorium, dissolved (mg/L)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Tin, dissolved (mg/L)	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Titanium, dissolved (mg/L)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium, dissolved (mg/L)	< 0.00002	0.00006	0.00268	0.00215	< 0.00002	0.00159	
Vanadium, dissolved (mg/L)	< 0.001	0.001	< 0.001	0.002	< 0.001	0.002	
Zinc, dissolved (mg/L)	0.011	< 0.004	< 0.004	< 0.004	0.006	< 0.004	
Zirconium, dissolved (mg/L)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	
Total Metals	Aluminum, total (mg/L)	492	13.7	1.06	0.193	< 0.005	0.064

**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 6100550  
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		6100550-01	6100550-02	6100550-03	6100550-04	6100550-05	6100550-06
		Water	Water	Water	Water	Water	Water
		2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-09
		PEA	Weir	SW1	SW1	FB	SW1
Total Metals	Antimony, total (mg/L)	0.0016	0.0006	0.0003	0.0004	< 0.0001	0.0005
	Arsenic, total (mg/L)	0.0516	0.0026	0.0007	< 0.0005	< 0.0005	< 0.0005
	Barium, total (mg/L)	2.37	0.085	0.080	0.037	< 0.005	0.052
	Beryllium, total (mg/L)	0.0111	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Bismuth, total (mg/L)	0.0009	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Boron, total (mg/L)	0.078	0.035	0.073	0.038	< 0.004	0.055
	Cadmium, total (mg/L)	0.00346	0.00010	0.00003	0.00004	0.00002	0.00005
	Calcium, total (mg/L)	313	36.2	164	113	0.2	149
	Chromium, total (mg/L)	0.743	0.0276	0.0025	0.0008	0.0006	0.0007
	Cobalt, total (mg/L)	0.246	0.00871	0.00420	0.00111	< 0.00005	0.00089
	Copper, total (mg/L)	0.877	0.0307	0.0052	0.0022	0.0006	0.0020
	Iron, total (mg/L)	369	14.8	1.37	0.22	0.01	0.07
	Lead, total (mg/L)	0.266	0.0113	0.0013	0.0003	0.0002	< 0.0001
	Lithium, total (mg/L)	0.127	0.0073	0.0008	0.0003	< 0.0001	0.0004
	Magnesium, total (mg/L)	105	10.5	29.8	18.8	0.02	24.7
	Manganese, total (mg/L)	11.8	0.260	0.746	0.173	0.0011	0.134
	Mercury, total (mg/L)	0.00026	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0128	0.0018	0.0043	0.0028	< 0.0001	0.0030
	Nickel, total (mg/L)	0.403	0.0199	0.0033	0.0018	0.0003	0.0021
	Phosphorus, total (mg/L)	12.2	0.21	0.06	< 0.02	< 0.02	< 0.02
	Potassium, total (mg/L)	17.5	4.35	5.04	2.63	0.07	3.62
	Selenium, total (mg/L)	0.0047	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0006
	Silicon, total (mg/L)	224	26.0	6.3	4.2	< 0.5	4.3
	Silver, total (mg/L)	0.00196	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
	Sodium, total (mg/L)	70.0	13.5	100	40.4	0.05	62.1
	Strontium, total (mg/L)	1.67	0.172	0.649	0.375	< 0.001	0.528
	Sulfur, total (mg/L)	240	25	88	71	1	95
	Tellurium, total (mg/L)	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Thallium, total (mg/L)	0.00085	0.00005	< 0.00002	< 0.00002	< 0.00002	< 0.00002
	Thorium, total (mg/L)	0.0089	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	Tin, total (mg/L)	0.0022	0.0005	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Titanium, total (mg/L)	12.5	0.737	0.059	0.010	< 0.005	< 0.005
Uranium, total (mg/L)	0.0148	0.00036	0.00285	0.00216	< 0.00002	0.00176	
Vanadium, total (mg/L)	1.17	0.038	0.004	0.003	< 0.001	0.002	
Zinc, total (mg/L)	2.05	0.043	0.006	< 0.004	0.006	< 0.004	
Zirconium, total (mg/L)	0.0352	0.0078	0.0021	< 0.0001	< 0.0001	< 0.0001	
BCMOE Aggregate Hydrocarbons	EPHw10-19 (ug/L)	< 250	< 250	< 250	< 250	< 250	< 250
	EPHw19-32 (ug/L)	901	< 250	< 250	< 250	< 250	< 250
	LEPHw (ug/L)	< 250	< 250	< 250	< 250	< 250	< 250
	HEPHw (ug/L)	899	< 250	< 250	< 250	< 250	< 250
	Sur: 2-Methylnonane (%)	83	85	81	87	83	88
Glycols	Propylene glycol (mg/L)	< 5	< 5	< 5	< 5	< 5	< 5
	Ethylene glycol (mg/L)	< 5	< 5	< 5	< 5	< 5	< 5
	Diethylene glycol (mg/L)	< 5	< 5	< 5	< 5	< 5	< 5
	Triethylene glycol (mg/L)	< 5	< 5	< 5	< 5	< 5	< 5

**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

		6100550-01	6100550-02	6100550-03	6100550-04	6100550-05	6100550-06
		Water	Water	Water	Water	Water	Water
		2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-09
		PEA	Weir	SW1	SW1	FB	SW1
Glycols	Sur: Tetramethylene Glycol (%)	90	95	81	94	112	79
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Acenaphthylene (ug/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	Acridine (ug/L)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	Anthracene (ug/L)	0.12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benz (a) anthracene (ug/L)	0.19	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo (a) pyrene (ug/L)	0.26	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo (b) fluoranthene (ug/L)	0.20	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Benzo (g,h,i) perylene (ug/L)	0.36	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Benzo (k) fluoranthene (ug/L)	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Chrysene (ug/L)	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Dibenz (a,h) anthracene (ug/L)	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Fluoranthene (ug/L)	0.86	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
	Fluorene (ug/L)	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Indeno (1,2,3-cd) pyrene (ug/L)	0.27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Naphthalene (ug/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	Phenanthrene (ug/L)	0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	Pyrene (ug/L)	0.45	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	Quinoline (ug/L)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	Sur: Acridine-d9 (%)	37	74	76	75	76	67
	Sur: Naphthalene-d8 (%)	87	89	84	89	87	93
Sur: Perylene-d12 (%)	84	118	117	125	124	123	
Volatile Organic Compounds (VOC)	Benzene (ug/L)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Bromodichloromethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromoform (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane (ug/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Carbon tetrachloride (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chlorobenzene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloroethane (ug/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Chloroform (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0
	Chloromethane (ug/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromoethane (ug/L)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	Dibromomethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene (ug/L)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



**REPORTED TO PROJECT** Allterra Construction  
SIRM 460 Stebbings

**WORK ORDER REPORTED** 6100550  
2016-10-11

		6100550-01	6100550-02	6100550-03	6100550-04	6100550-05	6100550-06
		Water	Water	Water	Water	Water	Water
		2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-08	2016-10-09
		PEA	Weir	SW1	SW1	FB	SW1
Volatile Organic Compounds (VOC)	Ethylbenzene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Methyl tert-butyl ether (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Methylene chloride (ug/L)	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
	Styrene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloroethene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Toluene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2-Trichloroethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloroethene (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichlorofluoromethane (ug/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride (ug/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Xylenes (total) (ug/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Sur: Toluene-d8 (%)	91	101	94	92	96	96
	Sur: 4-Bromofluorobenzene (%)	89	100	96	93	97	96
	Sur: 1,4-Dichlorobenzene-d4 (%)	95	108	103	100	103	103

Client Information	Project Information	Laboratory Information	COC Information
Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	SIRM 460 Stebbings Number: [none] Sample count: 6 TAT: 1	CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	Number: B33040 Shipped via: Harbour Air

#	Sample Information	Analyses	Containers
#1	PEA (Template: 01) 10/08/2016 10:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Comments: Please run if there is enough sample Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Comments: Please run if there is enough sample Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG)
#2	Weir (Template: 01) 10/08/2016 11:15 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#3	SW1 (Template: 01) 10/08/2016 11:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#4	SW1 (Template: 01) 10/08/2016 18:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 m

		Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	S06_40 mL Vial (Mercury-F)
#5	FB (Template: 01) 10/08/2016 17:45 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#6	SW1 (Template: 01) 10/09/2016 09:00 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)

Relinquished by	Date/Time	Accepted by	Date/Time



<b>Client Information</b> Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726		<b>F</b> SIRM 460 Stebbings Number: [none] Sample count: 6 TAT: 1	CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	<b>COC Information</b> Number: B33040 Shipped via: Harbour Air
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#	Sample Description	Analyses	Containers
#1	PEA (Template: 01) 10/08/2016 10:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Comments: Please run if there is enough sample Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Comments: Please run if there is enough sample Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG)
#2	Weir (Template: 01) 10/08/2016 11:15 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#3	SW1 (Template: 01) 10/08/2016 11:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#4	SW1 (Template: 01) 10/08/2016 18:00 Grab / Water	Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1	C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F)

		Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	S06_40 mL Vial (Mercury-F)
#5	FB (Template: 01) 10/08/2016 17:45 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#6	SW1 (Template: 01) 10/09/2016 09:00 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)

Relinquished by	Date/Time	Accepted by	Date/Time