

REPORTED TO	Allterra Construction 2158 Millstream Road Victoria, BC V9B 6H4	TEL	(250) 508-0726
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ATTENTION	Rahim Gaidhar	WORK ORDER	6121459
PO NUMBER	P15-06 SIRM	RECEIVED / TEMP	2016-12-21 16:45 / 6°C
PROJECT	SIRM 460 Stebbings	REPORTED	2017-01-09
PROJECT INFO		COC NUMBER	20161220

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:

This is a revised report. Refer to Appendix 3 for details



Authorized By: **Bryan Shaw, Ph.D., P.Chem.**
Account Manager

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Analysis Description	Method Reference	Technique	Location
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
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 CaCO3) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Hardness (as CaCO3) 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*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Kelowna
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna
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
 CU Colour Units (referenced against a platinum cobalt standard)
 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 / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: 1-Weir (6121459-01) [Water] Sampled: 2016-12-20 15:00

Anions

Chloride	22.7	± 1.0	0.10	mg/L	N/A	2016-12-23	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-12-23	
Nitrate (as N)	0.253	± 0.032	0.010	mg/L	N/A	2016-12-23	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-12-23	
Sulfate	41.3	± 4.9	1.0	mg/L	N/A	2016-12-23	

General Parameters

Alkalinity, Total (as CaCO ₃)	34	± 2	1	mg/L	N/A	2016-12-23	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1		1	mg/L	N/A	2016-12-23	
Alkalinity, Bicarbonate (as CaCO ₃)	34	± 2	1	mg/L	N/A	2016-12-23	
Alkalinity, Carbonate (as CaCO ₃)	< 1		1	mg/L	N/A	2016-12-23	
Alkalinity, Hydroxide (as CaCO ₃)	< 1		1	mg/L	N/A	2016-12-23	
Colour, True	8	± 4	5	CU	N/A	2016-12-22	
Conductivity (EC)	240	± 4	2	µS/cm	N/A	2016-12-23	
pH	7.51	± 0.02	0.01	pH units	N/A	2016-12-23	HT2
Solids, Total Dissolved	146	± 15	10	mg/L	N/A	2016-12-23	
Solids, Total Suspended	13	± 1	2	mg/L	N/A	2016-12-23	
Turbidity	26.5	± 1.2	0.10	NTU	N/A	2016-12-23	

Calculated Parameters

Hardness, Total (as CaCO ₃)	81.4		0.50	mg/L	N/A	N/A	
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Dissolved Metals

Aluminum, dissolved	0.012	± 0.003	0.005	mg/L	N/A	2016-12-30	
Antimony, dissolved	0.0001	± 0.0001	0.0001	mg/L	N/A	2016-12-30	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-30	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Boron, dissolved	0.011	± 0.002	0.004	mg/L	N/A	2016-12-30	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-12-30	
Calcium, dissolved	25.8	± 5.0	0.2	mg/L	N/A	2016-12-30	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	
Cobalt, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-30	
Copper, dissolved	0.0003	± 0.0003	0.0002	mg/L	N/A	2016-12-30	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-12-30	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Lithium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Magnesium, dissolved	4.12	± 0.83	0.01	mg/L	N/A	2016-12-30	
Manganese, dissolved	0.0007	± 0.0002	0.0002	mg/L	N/A	2016-12-30	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-12-22	2016-12-22	
Molybdenum, dissolved	0.0005	± 0.0001	0.0001	mg/L	N/A	2016-12-30	
Nickel, dissolved	0.0005	± 0.0002	0.0002	mg/L	N/A	2016-12-30	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-12-30	
Potassium, dissolved	0.74	± 0.13	0.02	mg/L	N/A	2016-12-30	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	

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Sample ID: 1-Weir (6121459-01) [Water] Sampled: 2016-12-20 15:00, Continued

Dissolved Metals, Continued

Silicon, dissolved	1.0	± 0.6	0.5	mg/L	N/A	2016-12-30	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-30	
Sodium, dissolved	12.8	± 2.4	0.02	mg/L	N/A	2016-12-30	
Strontium, dissolved	0.081	± 0.010	0.001	mg/L	N/A	2016-12-30	
Sulfur, dissolved	13	± 84	1	mg/L	N/A	2016-12-30	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-30	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-12-30	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-30	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-30	
Uranium, dissolved	0.00021	± 0.00003	0.00002	mg/L	N/A	2016-12-30	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-12-30	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-12-30	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	

Total Metals

Aluminum, total	1.65	± 0.30	0.005	mg/L	2017-01-09	2017-01-09	
Antimony, total	0.0002	± 0.0001	0.0001	mg/L	2017-01-09	2017-01-09	
Arsenic, total	< 0.0005		0.0005	mg/L	2017-01-09	2017-01-09	
Barium, total	0.013	± 0.002	0.005	mg/L	2017-01-09	2017-01-09	
Beryllium, total	< 0.0001		0.0001	mg/L	2017-01-09	2017-01-09	
Bismuth, total	< 0.0001		0.0001	mg/L	2017-01-09	2017-01-09	
Boron, total	0.021	± 0.004	0.004	mg/L	2017-01-09	2017-01-09	
Cadmium, total	< 0.00001		0.00001	mg/L	2017-01-09	2017-01-09	
Calcium, total	26.4	± 3.2	0.2	mg/L	2017-01-09	2017-01-09	
Chromium, total	0.0029	± 0.0004	0.0005	mg/L	2017-01-09	2017-01-09	
Cobalt, total	0.00066	± 0.00006	0.00005	mg/L	2017-01-09	2017-01-09	
Copper, total	0.0037	± 0.0005	0.0002	mg/L	2017-01-09	2017-01-09	
Iron, total	1.52	± 0.30	0.01	mg/L	2017-01-09	2017-01-09	
Lead, total	0.0009	± 0.0001	0.0001	mg/L	2017-01-09	2017-01-09	
Lithium, total	0.0011	± 0.0002	0.0001	mg/L	2017-01-09	2017-01-09	
Magnesium, total	4.45	± 0.68	0.01	mg/L	2017-01-09	2017-01-09	
Manganese, total	0.0223	± 0.0020	0.0002	mg/L	2017-01-09	2017-01-09	
Mercury, total	< 0.00002		0.00002	mg/L	2016-12-22	2016-12-22	
Molybdenum, total	0.0006	± 0.0001	0.0001	mg/L	2017-01-09	2017-01-09	
Nickel, total	0.0025	± 0.0003	0.0002	mg/L	2017-01-09	2017-01-09	
Phosphorus, total	< 0.02		0.02	mg/L	2017-01-09	2017-01-09	
Potassium, total	0.94	± 0.09	0.02	mg/L	2017-01-09	2017-01-09	
Selenium, total	< 0.0005		0.0005	mg/L	2017-01-09	2017-01-09	
Silicon, total	5.4	± 2.0	0.5	mg/L	2017-01-09	2017-01-09	
Silver, total	< 0.00005		0.00005	mg/L	2017-01-09	2017-01-09	
Sodium, total	12.8	± 1.9	0.02	mg/L	2017-01-09	2017-01-09	
Strontium, total	0.084	± 0.008	0.001	mg/L	2017-01-09	2017-01-09	
Sulfur, total	13	± 321	1	mg/L	2017-01-09	2017-01-09	
Tellurium, total	< 0.0002		0.0002	mg/L	2017-01-09	2017-01-09	
Thallium, total	< 0.00002		0.00002	mg/L	2017-01-09	2017-01-09	

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Sample ID: 1-Weir (6121459-01) [Water] Sampled: 2016-12-20 15:00, Continued

Total Metals, Continued

Thorium, total	< 0.0001		0.0001	mg/L	2017-01-09	2017-01-09	
Tin, total	< 0.0002		0.0002	mg/L	2017-01-09	2017-01-09	
Titanium, total	0.087	± 0.012	0.005	mg/L	2017-01-09	2017-01-09	
Uranium, total	0.00022	± 0.00001	0.00002	mg/L	2017-01-09	2017-01-09	
Vanadium, total	0.005	± 0.001	0.001	mg/L	2017-01-09	2017-01-09	
Zinc, total	0.005	± 0.002	0.004	mg/L	2017-01-09	2017-01-09	
Zirconium, total	0.0006	± 0.0001	0.0001	mg/L	2017-01-09	2017-01-09	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-12-21	2016-12-22	
EPHw19-32	< 250		250	µg/L	2016-12-21	2016-12-22	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	98		60-140	%	2016-12-21	2016-12-22	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Ethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Diethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Triethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
<i>Surrogate: Tetramethylene Glycol</i>	107		66-125	%	N/A	2016-12-23	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Acenaphthylene	< 0.20		0.20	µg/L	2016-12-21	2016-12-23	
Acridine	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Anthracene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (b+j) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Chrysene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Fluoranthene	< 0.03		0.03	µg/L	2016-12-21	2016-12-23	
Fluorene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Naphthalene	< 0.20		0.20	µg/L	2016-12-21	2016-12-23	
Phenanthrene	< 0.10		0.10	µg/L	2016-12-21	2016-12-23	
Pyrene	< 0.02		0.02	µg/L	2016-12-21	2016-12-23	
Quinoline	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
<i>Surrogate: Acridine-d9</i>	90		60-130	%	2016-12-21	2016-12-23	
<i>Surrogate: Naphthalene-d8</i>	98		60-130	%	2016-12-21	2016-12-23	
<i>Surrogate: Perylene-d12</i>	102		60-130	%	2016-12-21	2016-12-23	

Volatile Organic Compounds (VOC)

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Sample ID: 1-Weir (6121459-01) [Water] Sampled: 2016-12-20 15:00, Continued

Volatile Organic Compounds (VOC), Continued

Benzene	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
Bromodichloromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Bromoform	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Bromomethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Carbon tetrachloride	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
Chlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Chloroethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Chloroform	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Chloromethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Dibromochloromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dibromoethane	< 0.2		0.2	µg/L	2016-12-20	2016-12-24	
Dibromomethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1-Dichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichloropropane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Ethylbenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	2016-12-20	2016-12-31	
Methylene chloride	< 3.0		3.0	µg/L	2016-12-20	2016-12-24	
Styrene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
Tetrachloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Toluene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Trichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Trichlorofluoromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Vinyl chloride	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Xylenes (total)	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Surrogate: Toluene-d8	108		70-130	%	2016-12-20	2016-12-24	
Surrogate: 4-Bromofluorobenzene	104		70-130	%	2016-12-20	2016-12-24	
Surrogate: 1,4-Dichlorobenzene-d4	95		70-130	%	2016-12-20	2016-12-24	

Sample ID: 2-SW1 (6121459-02) [Water] Sampled: 2016-12-20 15:15

Anions

Chloride	18.3 ± 0.8	0.10 mg/L	N/A	2016-12-23
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Sample ID: 2-SW1 (6121459-02) [Water] Sampled: 2016-12-20 15:15, Continued

Anions, Continued

Fluoride	< 0.10		0.10	mg/L	N/A	2016-12-23	
Nitrate (as N)	0.422	± 0.053	0.010	mg/L	N/A	2016-12-23	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-12-23	
Sulfate	46.4	± 5.5	1.0	mg/L	N/A	2016-12-23	

General Parameters

Alkalinity, Total (as CaCO3)	43	± 3	1	mg/L	N/A	2016-12-23	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-12-23	
Alkalinity, Bicarbonate (as CaCO3)	43	± 2	1	mg/L	N/A	2016-12-23	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-12-23	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-12-23	
Colour, True	< 5		5	CU	N/A	2016-12-22	
Conductivity (EC)	261	± 4	2	µS/cm	N/A	2016-12-23	
pH	7.53	± 0.02	0.01	pH units	N/A	2016-12-23	HT2
Solids, Total Dissolved	149	± 15	10	mg/L	N/A	2016-12-23	
Solids, Total Suspended	3	± 1	2	mg/L	N/A	2016-12-23	
Turbidity	8.61	± 0.40	0.10	NTU	N/A	2016-12-23	

Calculated Parameters

Hardness, Total (as CaCO3)	94.8		0.50	mg/L	N/A	N/A	
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Dissolved Metals

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-30	
Antimony, dissolved	0.0001	± 0.0001	0.0001	mg/L	N/A	2016-12-30	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-30	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Boron, dissolved	0.012	± 0.003	0.004	mg/L	N/A	2016-12-30	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-12-30	
Calcium, dissolved	30.3	± 5.8	0.2	mg/L	N/A	2016-12-30	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	
Cobalt, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-30	
Copper, dissolved	0.0006	± 0.0003	0.0002	mg/L	N/A	2016-12-30	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-12-30	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Lithium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Magnesium, dissolved	4.64	± 0.93	0.01	mg/L	N/A	2016-12-30	
Manganese, dissolved	0.0009	± 0.0002	0.0002	mg/L	N/A	2016-12-30	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-12-22	2016-12-22	
Molybdenum, dissolved	0.0007	± 0.0001	0.0001	mg/L	N/A	2016-12-30	
Nickel, dissolved	0.0002	± 0.0002	0.0002	mg/L	N/A	2016-12-30	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-12-30	
Potassium, dissolved	0.67	± 0.12	0.02	mg/L	N/A	2016-12-30	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-30	
Silicon, dissolved	1.8	± 1.0	0.5	mg/L	N/A	2016-12-30	

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Sample ID: 2-SW1 (6121459-02) [Water] Sampled: 2016-12-20 15:15, Continued

Dissolved Metals, Continued

Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-30	
Sodium, dissolved	10.3	± 2.0	0.02	mg/L	N/A	2016-12-30	
Strontium, dissolved	0.086	± 0.011	0.001	mg/L	N/A	2016-12-30	
Sulfur, dissolved	14	± 90	1	mg/L	N/A	2016-12-30	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-30	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-12-30	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-30	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-30	
Uranium, dissolved	0.00029	± 0.00004	0.00002	mg/L	N/A	2016-12-30	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-12-30	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-12-30	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-30	

Total Metals

Aluminum, total	0.399	± 0.091	0.005	mg/L	2016-12-29	2016-12-30	
Antimony, total	0.0001	± 0.0001	0.0001	mg/L	2016-12-29	2016-12-30	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-12-29	2016-12-30	
Barium, total	0.008	± 0.001	0.005	mg/L	2016-12-29	2016-12-30	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-12-29	2016-12-30	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-12-29	2016-12-30	
Boron, total	0.013	± 0.003	0.004	mg/L	2016-12-29	2016-12-30	
Cadmium, total	< 0.00001		0.00001	mg/L	2016-12-29	2016-12-30	
Calcium, total	30.1	± 4.5	0.2	mg/L	2016-12-29	2016-12-30	
Chromium, total	0.0008	± 0.0002	0.0005	mg/L	2016-12-29	2016-12-30	
Cobalt, total	0.00026	± 0.00003	0.00005	mg/L	2016-12-29	2016-12-30	
Copper, total	0.0021	± 0.0003	0.0002	mg/L	2016-12-29	2016-12-30	
Iron, total	0.42	± 0.10	0.01	mg/L	2016-12-29	2016-12-30	
Lead, total	0.0004	± 0.0001	0.0001	mg/L	2016-12-29	2016-12-30	
Lithium, total	0.0003	± 0.0001	0.0001	mg/L	2016-12-29	2016-12-30	
Magnesium, total	4.77	± 0.91	0.01	mg/L	2016-12-29	2016-12-30	
Manganese, total	0.0078	± 0.0009	0.0002	mg/L	2016-12-29	2016-12-30	
Mercury, total	< 0.00002		0.00002	mg/L	2016-12-22	2016-12-22	
Molybdenum, total	0.0007	± 0.0001	0.0001	mg/L	2016-12-29	2016-12-30	
Nickel, total	0.0019	± 0.0002	0.0002	mg/L	2016-12-29	2016-12-30	
Phosphorus, total	< 0.02		0.02	mg/L	2016-12-29	2016-12-30	
Potassium, total	0.73	± 0.11	0.02	mg/L	2016-12-29	2016-12-30	
Selenium, total	< 0.0005		0.0005	mg/L	2016-12-29	2016-12-30	
Silicon, total	2.5	± 1.1	0.5	mg/L	2016-12-29	2016-12-30	
Silver, total	< 0.00005		0.00005	mg/L	2016-12-29	2016-12-30	
Sodium, total	10.4	± 1.9	0.02	mg/L	2016-12-29	2016-12-30	
Strontium, total	0.087	± 0.010	0.001	mg/L	2016-12-29	2016-12-30	
Sulfur, total	13	± 1410	1	mg/L	2016-12-29	2016-12-30	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-12-29	2016-12-30	
Thallium, total	< 0.00002		0.00002	mg/L	2016-12-29	2016-12-30	
Thorium, total	< 0.0001		0.0001	mg/L	2016-12-29	2016-12-30	

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Sample ID: 2-SW1 (6121459-02) [Water] Sampled: 2016-12-20 15:15, Continued

Total Metals, Continued

Tin, total	< 0.0002		0.0002	mg/L	2016-12-29	2016-12-30	
Titanium, total	0.017	± 0.003	0.005	mg/L	2016-12-29	2016-12-30	
Uranium, total	0.00031	± 0.00002	0.00002	mg/L	2016-12-29	2016-12-30	
Vanadium, total	0.002		0.001	mg/L	2016-12-29	2016-12-30	
Zinc, total	< 0.004		0.004	mg/L	2016-12-29	2016-12-30	
Zirconium, total	0.0001		0.0001	mg/L	2016-12-29	2016-12-30	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-12-21	2016-12-22	
EPHw19-32	< 250		250	µg/L	2016-12-21	2016-12-22	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	104		60-140	%	2016-12-21	2016-12-22	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Ethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Diethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
Triethylene glycol	< 5		5	mg/L	N/A	2016-12-23	
<i>Surrogate: Tetramethylene Glycol</i>	103		66-125	%	N/A	2016-12-23	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Acenaphthylene	< 0.20		0.20	µg/L	2016-12-21	2016-12-23	
Acridine	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Anthracene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-12-21	2016-12-23	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (b+j) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Chrysene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Fluoranthene	< 0.03		0.03	µg/L	2016-12-21	2016-12-23	
Fluorene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
Naphthalene	< 0.20		0.20	µg/L	2016-12-21	2016-12-23	
Phenanthrene	< 0.10		0.10	µg/L	2016-12-21	2016-12-23	
Pyrene	< 0.02		0.02	µg/L	2016-12-21	2016-12-23	
Quinoline	< 0.05		0.05	µg/L	2016-12-21	2016-12-23	
<i>Surrogate: Acridine-d9</i>	89		60-130	%	2016-12-21	2016-12-23	
<i>Surrogate: Naphthalene-d8</i>	100		60-130	%	2016-12-21	2016-12-23	
<i>Surrogate: Perylene-d12</i>	102		60-130	%	2016-12-21	2016-12-23	

Volatile Organic Compounds (VOC)

Benzene	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
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Sample ID: 2-SW1 (6121459-02) [Water] Sampled: 2016-12-20 15:15, Continued

Volatile Organic Compounds (VOC), Continued							
Bromodichloromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Bromoform	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Bromomethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Carbon tetrachloride	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
Chlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Chloroethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Chloroform	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Chloromethane	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Dibromochloromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dibromoethane	< 0.2		0.2	µg/L	2016-12-20	2016-12-24	
Dibromomethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1-Dichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,2-Dichloropropane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Ethylbenzene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	2016-12-20	2016-12-31	
Methylene chloride	< 3.0		3.0	µg/L	2016-12-20	2016-12-24	
Styrene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	2016-12-20	2016-12-24	
Tetrachloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Toluene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Trichloroethene	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Trichlorofluoromethane	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Vinyl chloride	< 1.0		1.0	µg/L	2016-12-20	2016-12-24	
Xylenes (total)	< 2.0		2.0	µg/L	2016-12-20	2016-12-24	
Surrogate: Toluene-d8	109		70-130	%	2016-12-20	2016-12-24	
Surrogate: 4-Bromofluorobenzene	104		70-130	%	2016-12-20	2016-12-24	
Surrogate: 1,4-Dichlorobenzene-d4	96		70-130	%	2016-12-20	2016-12-24	

Sample / Analysis Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

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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
Anions, Batch B6L1395									
Blank (B6L1395-BLK1)					Prepared: 2016-12-23, Analyzed: 2016-12-23				
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B6L1395-BLK2)					Prepared: 2016-12-24, Analyzed: 2016-12-24				
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B6L1395-BS1)					Prepared: 2016-12-23, Analyzed: 2016-12-23				
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	3.97	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		100	93-108			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	83-110			
Sulfate	15.8	1.0 mg/L	16.0		99	91-109			
LCS (B6L1395-BS2)					Prepared: 2016-12-24, Analyzed: 2016-12-24				
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	3.94	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	83-110			
Sulfate	15.7	1.0 mg/L	16.0		98	91-109			
BCMOE Aggregate Hydrocarbons, Batch B6L1235									
Blank (B6L1235-BLK1)					Prepared: 2016-12-21, Analyzed: 2016-12-22				
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							

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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BCMOE Aggregate Hydrocarbons, Batch B6L1235, Continued

Blank (B6L1235-BLK1), Continued			Prepared: 2016-12-21, Analyzed: 2016-12-22						
Surrogate: 2-Methylnonane	385	µg/L	445		87	60-140			
LCS (B6L1235-BS2)			Prepared: 2016-12-21, Analyzed: 2016-12-22						
EPHw10-19	17400	250 µg/L	15600		111	70-130			
EPHw19-32	17600	250 µg/L	22200		79	70-130			
Surrogate: 2-Methylnonane	378	µg/L	445		85	60-140			

Dissolved Metals, Batch B6L1299

Blank (B6L1299-BLK1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Matrix Spike (B6L1299-MS1)			Source: 6121459-01 Prepared: 2016-12-22, Analyzed: 2016-12-22						
Mercury, dissolved	0.00025	0.00002 mg/L	0.000250	< 0.00002	101	70-130			
Reference (B6L1299-SRM1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Mercury, dissolved	0.00513	0.00002 mg/L	0.00489		105	50-150			

Dissolved Metals, Batch B6L1514

Blank (B6L1514-BLK1)			Prepared: 2016-12-30, Analyzed: 2016-12-30						
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							
Molybdenum, dissolved	< 0.0001	0.0001 mg/L							
Nickel, dissolved	< 0.0002	0.0002 mg/L							
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							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B6L1514, Continued									
Blank (B6L1514-BLK1), Continued					Prepared: 2016-12-30, Analyzed: 2016-12-30				
Zirconium, dissolved	< 0.0001	0.0001 mg/L							
Duplicate (B6L1514-DUP1)					Source: 6121459-01 Prepared: 2016-12-30, Analyzed: 2016-12-30				
Aluminum, dissolved	0.009	0.005 mg/L		0.012					11
Antimony, dissolved	0.0001	0.0001 mg/L		0.0001					44
Arsenic, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					8
Barium, dissolved	< 0.005	0.005 mg/L		< 0.005					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	0.013	0.004 mg/L		0.011					13
Cadmium, dissolved	< 0.00001	0.00001 mg/L		< 0.00001					27
Calcium, dissolved	25.4	0.2 mg/L		25.8			2		8
Chromium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					14
Cobalt, dissolved	< 0.00005	0.00005 mg/L		< 0.00005					10
Copper, dissolved	0.0004	0.0002 mg/L		0.0003					28
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010					14
Lead, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					26
Lithium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					14
Magnesium, dissolved	4.14	0.01 mg/L		4.12			< 1		6
Manganese, dissolved	0.0008	0.0002 mg/L		0.0007					9
Molybdenum, dissolved	0.0006	0.0001 mg/L		0.0005			3		19
Nickel, dissolved	0.0003	0.0002 mg/L		0.0005					21
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02					14
Potassium, dissolved	0.75	0.02 mg/L		0.74			2		8
Selenium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					36
Silicon, dissolved	1.0	0.5 mg/L		1.0					12
Silver, dissolved	< 0.00005	0.00005 mg/L		< 0.00005					20
Sodium, dissolved	12.9	0.02 mg/L		12.8			< 1		6
Strontium, dissolved	0.081	0.001 mg/L		0.081			< 1		6
Sulfur, dissolved	13	1 mg/L		13			2		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	0.00021	0.00002 mg/L		0.00021			< 1		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
Matrix Spike (B6L1514-MS1)					Source: 6121459-02 Prepared: 2016-12-30, Analyzed: 2016-12-30				
Antimony, dissolved	0.361	0.0001 mg/L	0.400	0.0001	90				76-114
Arsenic, dissolved	0.203	0.0005 mg/L	0.200	< 0.0005	101				81-115
Barium, dissolved	0.946	0.005 mg/L	1.00	0.005	94				80-113
Beryllium, dissolved	0.0861	0.0001 mg/L	0.100	< 0.0001	86				69-109
Cadmium, dissolved	0.0984	0.00001 mg/L	0.100	< 0.00001	98				83-110
Chromium, dissolved	0.399	0.0005 mg/L	0.400	< 0.0005	100				85-115
Cobalt, dissolved	0.393	0.00005 mg/L	0.400	< 0.00005	98				86-114
Copper, dissolved	0.416	0.0002 mg/L	0.400	0.0006	104				82-119
Iron, dissolved	1.94	0.010 mg/L	2.00	< 0.010	97				80-116
Lead, dissolved	0.207	0.0001 mg/L	0.200	< 0.0001	104				83-112
Manganese, dissolved	0.381	0.0002 mg/L	0.400	0.0009	95				62-131
Nickel, dissolved	0.407	0.0002 mg/L	0.400	0.0002	102				81-115
Selenium, dissolved	0.0995	0.0005 mg/L	0.100	< 0.0005	99				79-115
Silver, dissolved	0.0936	0.00005 mg/L	0.100	< 0.00005	94				69-121
Thallium, dissolved	0.100	0.00002 mg/L	0.100	< 0.00002	100				84-115
Vanadium, dissolved	0.402	0.001 mg/L	0.400	< 0.001	100				83-113

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Dissolved Metals, Batch B6L1514, Continued									
Matrix Spike (B6L1514-MS1), Continued			Source: 6121459-02		Prepared: 2016-12-30, Analyzed: 2016-12-30				
Zinc, dissolved	1.08	0.004 mg/L	1.00	< 0.004	108	82-115			
Reference (B6L1514-SRM1)			Prepared: 2016-12-30, Analyzed: 2016-12-30						
Aluminum, dissolved	0.227	0.005 mg/L	0.233		97	58-142			
Antimony, dissolved	0.0441	0.0001 mg/L	0.0430		103	75-125			
Arsenic, dissolved	0.468	0.0005 mg/L	0.438		107	81-119			
Barium, dissolved	3.29	0.005 mg/L	3.35		98	83-117			
Beryllium, dissolved	0.195	0.0001 mg/L	0.213		91	80-120			
Boron, dissolved	1.57	0.004 mg/L	1.74		90	74-117			
Cadmium, dissolved	0.233	0.00001 mg/L	0.224		104	83-117			
Calcium, dissolved	7.5	0.2 mg/L	7.69		98	76-124			
Chromium, dissolved	0.455	0.0005 mg/L	0.437		104	81-119			
Cobalt, dissolved	0.136	0.00005 mg/L	0.128		106	76-124			
Copper, dissolved	0.897	0.0002 mg/L	0.844		106	84-116			
Iron, dissolved	1.29	0.010 mg/L	1.29		100	74-126			
Lead, dissolved	0.122	0.0001 mg/L	0.112		109	72-128			
Lithium, dissolved	0.0957	0.0001 mg/L	0.104		92	60-140			
Magnesium, dissolved	6.88	0.01 mg/L	6.92		99	81-119			
Manganese, dissolved	0.346	0.0002 mg/L	0.345		100	84-116			
Molybdenum, dissolved	0.420	0.0001 mg/L	0.426		99	83-117			
Nickel, dissolved	0.878	0.0002 mg/L	0.840		105	74-126			
Phosphorus, dissolved	0.47	0.02 mg/L	0.495		95	68-132			
Potassium, dissolved	3.17	0.02 mg/L	3.19		99	74-126			
Selenium, dissolved	0.0343	0.0005 mg/L	0.0331		104	70-130			
Sodium, dissolved	19.1	0.02 mg/L	19.1		100	72-128			
Strontium, dissolved	0.871	0.001 mg/L	0.916		95	84-113			
Thallium, dissolved	0.0420	0.00002 mg/L	0.0393		107	57-143			
Uranium, dissolved	0.292	0.00002 mg/L	0.266		110	85-115			
Vanadium, dissolved	0.920	0.001 mg/L	0.869		106	87-113			
Zinc, dissolved	0.978	0.004 mg/L	0.881		111	72-128			

General Parameters, Batch B6L1314

Blank (B6L1314-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Suspended	< 1	2 mg/L							
Blank (B6L1314-BLK2)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Suspended	< 1	2 mg/L							
LCS (B6L1314-BS1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Suspended	50	2 mg/L	50.0		100	91-106			
LCS (B6L1314-BS2)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Suspended	50	2 mg/L	50.0		100	91-106			

General Parameters, Batch B6L1316

Blank (B6L1316-BLK1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Colour, True	< 5	5 CU							
LCS (B6L1316-BS1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Colour, True	10	5 CU	10.0		100	85-115			

General Parameters, Batch B6L1327

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B6L1327, Continued									
Blank (B6L1327-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
LCS (B6L1327-BS1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Alkalinity, Total (as CaCO3)	98	1 mg/L	100		98	92-106			
Duplicate (B6L1327-DUP1)			Source: 6121459-02		Prepared: 2016-12-23, Analyzed: 2016-12-23				
Alkalinity, Total (as CaCO3)	45	1 mg/L		43			4	10	
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L		< 1				10	
Alkalinity, Bicarbonate (as CaCO3)	45	1 mg/L		43			4	10	
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L		< 1				10	
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L		< 1				10	
Conductivity (EC)	259	2 µS/cm		261			< 1	5	
pH	7.57	0.01 pH units		7.53			< 1	4	
Reference (B6L1327-SRM1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
pH	6.99	0.01 pH units	7.00		100	98-102			
General Parameters, Batch B6L1398									
Blank (B6L1398-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Turbidity	< 0.10	0.10 NTU							
LCS (B6L1398-BS1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Turbidity	40.4	0.10 NTU	40.0		101	90-110			
General Parameters, Batch B6L1433									
Blank (B6L1433-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Dissolved	< 10	10 mg/L							
Reference (B6L1433-SRM1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Solids, Total Dissolved	243	10 mg/L	240		101	85-115			
Glycols, Batch B6L1339									
Blank (B6L1339-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
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	93.0	mg/L	95.6		97	66-125			
LCS (B6L1339-BS1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Propylene glycol	48	5 mg/L	50.0		96	71-114			
Ethylene glycol	58	5 mg/L	49.9		117	82-124			
Diethylene glycol	50	5 mg/L	50.0		101	80-116			
Triethylene glycol	54	5 mg/L	49.8		109	73-120			
Surrogate: Tetramethylene Glycol	93.9	mg/L	95.6		98	66-125			
LCS Dup (B6L1339-BSD1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Propylene glycol	44	5 mg/L	50.0		87	71-114	10	20	

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Glycols, Batch B6L1339, Continued

LCS Dup (B6L1339-BSD1), Continued			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Ethylene glycol	56	5 mg/L	49.9		113	82-124	3	20	
Diethylene glycol	52	5 mg/L	50.0		104	80-116	4	20	
Triethylene glycol	57	5 mg/L	49.8		115	73-120	5	20	
Surrogate: Tetramethylene Glycol	96.7	mg/L	95.6		101	66-125			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B6L1235

Blank (B6L1235-BLK1)			Prepared: 2016-12-21, Analyzed: 2016-12-22						
Acenaphthene	< 0.05	0.05 µg/L							
Acenaphthylene	< 0.20	0.20 µg/L							
Acridine	< 0.05	0.05 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 (b+j) 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	< 0.05	0.05 µg/L							
Surrogate: Acridine-d9	3.65	µg/L	4.45		82	60-130			
Surrogate: Naphthalene-d8	4.49	µg/L	4.45		101	60-130			
Surrogate: Perylene-d12	4.22	µg/L	4.45		95	60-130			

LCS (B6L1235-BS1)			Prepared: 2016-12-21, Analyzed: 2016-12-22						
Acenaphthene	3.96	0.05 µg/L	4.45		89	70-130			
Acenaphthylene	4.14	0.20 µg/L	4.45		93	70-130			
Acridine	3.55	0.05 µg/L	4.45		80	60-130			
Anthracene	4.15	0.01 µg/L	4.45		93	70-130			
Benz (a) anthracene	3.55	0.01 µg/L	4.45		80	70-130			
Benzo (a) pyrene	3.55	0.01 µg/L	4.45		80	70-130			
Benzo (b) fluoranthene	3.87	0.05 µg/L	4.45		87	70-130			
Benzo (b+j) fluoranthene	7.71	0.05 µg/L	8.90		87	70-130			
Benzo (g,h,i) perylene	3.97	0.05 µg/L	4.45		89	70-130			
Benzo (k) fluoranthene	4.21	0.05 µg/L	4.45		95	70-130			
Chrysene	3.58	0.05 µg/L	4.45		80	70-130			
Dibenz (a,h) anthracene	3.58	0.05 µg/L	4.45		81	70-130			
Fluoranthene	4.15	0.03 µg/L	4.45		93	70-130			
Fluorene	3.86	0.05 µg/L	4.45		87	70-130			
Indeno (1,2,3-cd) pyrene	3.74	0.05 µg/L	4.45		84	70-130			
Naphthalene	4.39	0.20 µg/L	4.45		99	70-130			
Phenanthrene	4.15	0.10 µg/L	4.45		93	70-130			
Pyrene	4.14	0.02 µg/L	4.45		93	70-130			
Quinoline	5.17	0.05 µg/L	4.45		116	70-130			
Surrogate: Acridine-d9	3.44	µg/L	4.45		77	60-130			
Surrogate: Naphthalene-d8	4.24	µg/L	4.45		95	60-130			
Surrogate: Perylene-d12	3.88	µg/L	4.45		87	60-130			

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Polycyclic Aromatic Hydrocarbons (PAH), Batch B6L1235, Continued									
LCS Dup (B6L1235-BSD1)					Prepared: 2016-12-21, Analyzed: 2016-12-22				
Acenaphthene	3.68	0.05 µg/L	4.42		83	70-130	7	20	
Acenaphthylene	3.80	0.20 µg/L	4.42		86	70-130	9	20	
Acridine	3.40	0.05 µg/L	4.42		77	60-130	4	20	
Anthracene	3.99	0.01 µg/L	4.42		90	70-130	4	20	
Benz (a) anthracene	3.75	0.01 µg/L	4.42		85	70-130	5	20	
Benzo (a) pyrene	3.66	0.01 µg/L	4.42		83	70-130	3	20	
Benzo (b) fluoranthene	4.08	0.05 µg/L	4.42		92	70-130	5	20	
Benzo (b+j) fluoranthene	8.20	0.05 µg/L	8.85		93	70-130	6	20	
Benzo (g,h,i) perylene	4.05	0.05 µg/L	4.42		92	70-130	2	20	
Benzo (k) fluoranthene	4.06	0.05 µg/L	4.42		92	70-130	4	20	
Chrysene	3.76	0.05 µg/L	4.42		85	70-130	5	20	
Dibenz (a,h) anthracene	3.68	0.05 µg/L	4.42		83	70-130	3	20	
Fluoranthene	4.12	0.03 µg/L	4.42		93	70-130	< 1	20	
Fluorene	3.61	0.05 µg/L	4.42		82	70-130	7	20	
Indeno (1,2,3-cd) pyrene	3.82	0.05 µg/L	4.42		86	70-130	2	20	
Naphthalene	3.57	0.20 µg/L	4.42		81	70-130	21	20	RPD
Phenanthrene	3.93	0.10 µg/L	4.42		89	70-130	5	20	
Pyrene	4.15	0.02 µg/L	4.42		94	70-130	< 1	20	
Quinoline	4.98	0.05 µg/L	4.42		113	70-130	4	20	
Surrogate: Acridine-d9	3.36	µg/L	4.42		76	60-130			
Surrogate: Naphthalene-d8	3.45	µg/L	4.42		78	60-130			
Surrogate: Perylene-d12	3.98	µg/L	4.42		90	60-130			

Total Metals, Batch B6L1301

Blank (B6L1301-BLK1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Mercury, total	< 0.00002	0.00002 mg/L							
Reference (B6L1301-SRM1)			Prepared: 2016-12-22, Analyzed: 2016-12-22						
Mercury, total	0.00462	0.00002 mg/L	0.00489		94	50-150			

Total Metals, Batch B6L1511

Blank (B6L1511-BLK1)			Prepared: 2016-12-29, Analyzed: 2016-12-30						
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							
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							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B6L1511, Continued									
Blank (B6L1511-BLK1), Continued					Prepared: 2016-12-29, Analyzed: 2016-12-30				
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							
Matrix Spike (B6L1511-MS1)									
Source: 6121459-02			Prepared: 2016-12-29, Analyzed: 2016-12-30						
Antimony, total	0.394	0.0001 mg/L	0.400	0.0001	98	84-125			
Arsenic, total	0.208	0.0005 mg/L	0.200	< 0.0005	104	85-116			
Barium, total	0.983	0.005 mg/L	1.00	0.008	97	87-114			
Beryllium, total	0.0870	0.0001 mg/L	0.100	< 0.0001	87	72-116			
Cadmium, total	0.102	0.00001 mg/L	0.100	< 0.00001	102	90-112			
Chromium, total	0.409	0.0005 mg/L	0.400	0.0008	102	89-120			
Cobalt, total	0.410	0.00005 mg/L	0.400	0.00026	102	88-120			
Copper, total	0.430	0.0002 mg/L	0.400	0.0021	107	88-125			
Iron, total	2.39	0.01 mg/L	2.00	0.42	98	88-119			
Lead, total	0.217	0.0001 mg/L	0.200	0.0004	108	89-118			
Manganese, total	0.399	0.0002 mg/L	0.400	0.0078	98	84-120			
Nickel, total	0.422	0.0002 mg/L	0.400	0.0019	105	87-119			
Selenium, total	0.104	0.0005 mg/L	0.100	< 0.0005	104	85-113			
Silver, total	0.113	0.00005 mg/L	0.100	< 0.00005	113	89-119			
Thallium, total	0.104	0.00002 mg/L	0.100	< 0.00002	104	92-119			
Vanadium, total	0.413	0.001 mg/L	0.400	0.002	103	87-117			
Zinc, total	1.11	0.004 mg/L	1.00	< 0.004	111	85-116			
Reference (B6L1511-SRM1)									
Prepared: 2016-12-29, Analyzed: 2016-12-30									
Aluminum, total	0.284	0.005 mg/L	0.303		94	81-129			
Antimony, total	0.0498	0.0001 mg/L	0.0511		97	88-114			
Arsenic, total	0.124	0.0005 mg/L	0.118		105	88-114			
Barium, total	0.784	0.005 mg/L	0.823		95	72-104			
Beryllium, total	0.0443	0.0001 mg/L	0.0496		89	76-131			
Boron, total	3.02	0.004 mg/L	3.45		87	75-121			
Cadmium, total	0.0507	0.00001 mg/L	0.0495		102	89-111			
Calcium, total	11.2	0.2 mg/L	11.6		97	86-121			
Chromium, total	0.259	0.0005 mg/L	0.250		104	89-114			
Cobalt, total	0.0402	0.00005 mg/L	0.0377		107	91-113			
Copper, total	0.531	0.0002 mg/L	0.486		109	91-115			
Iron, total	0.50	0.01 mg/L	0.488		103	77-124			
Lead, total	0.215	0.0001 mg/L	0.204		106	92-113			
Lithium, total	0.366	0.0001 mg/L	0.403		91	85-115			
Magnesium, total	3.88	0.01 mg/L	3.79		102	78-120			
Manganese, total	0.107	0.0002 mg/L	0.109		98	90-114			
Molybdenum, total	0.193	0.0001 mg/L	0.198		98	90-111			
Nickel, total	0.261	0.0002 mg/L	0.249		105	90-111			
Phosphorus, total	0.21	0.02 mg/L	0.227		92	85-115			
Potassium, total	7.49	0.02 mg/L	7.21		104	84-113			
Selenium, total	0.125	0.0005 mg/L	0.121		103	85-115			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Total Metals, Batch B6L1511, Continued

Reference (B6L1511-SRM1), Continued

Prepared: 2016-12-29, Analyzed: 2016-12-30

Sodium, total	7.69	0.02 mg/L	7.54		102	82-123			
Strontium, total	0.362	0.001 mg/L	0.375		96	88-112			
Thallium, total	0.0828	0.0002 mg/L	0.0805		103	91-114			
Uranium, total	0.0337	0.0002 mg/L	0.0306		110	85-120			
Vanadium, total	0.408	0.001 mg/L	0.386		106	86-111			
Zinc, total	2.71	0.004 mg/L	2.49		109	85-111			

Total Metals, Batch B7A0294

Blank (B7A0294-BLK1)

Prepared: 2017-01-09, Analyzed: 2017-01-09

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							
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 (B7A0294-DUP1)

Source: 6121459-01

Prepared: 2017-01-09, Analyzed: 2017-01-09

Aluminum, total	1.68	0.005 mg/L	1.65			2		29	
Antimony, total	0.0002	0.0001 mg/L	0.0002					31	
Arsenic, total	< 0.0005	0.0005 mg/L	< 0.0005					15	
Barium, total	0.014	0.005 mg/L	0.013					9	
Beryllium, total	< 0.0001	0.0001 mg/L	< 0.0001					16	
Bismuth, total	< 0.0001	0.0001 mg/L	< 0.0001					20	
Boron, total	0.019	0.004 mg/L	0.021			11		29	
Cadmium, total	< 0.00001	0.00001 mg/L	< 0.00001					33	

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
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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 B7A0294, Continued

Duplicate (B7A0294-DUP1), Continued	Source: 6121459-01		Prepared: 2017-01-09, Analyzed: 2017-01-09						
Calcium, total	27.1	0.2 mg/L		26.4			2	12	
Chromium, total	0.0030	0.0005 mg/L		0.0029			4	12	
Cobalt, total	0.00072	0.00005 mg/L		0.00066			9	13	
Copper, total	0.0037	0.0002 mg/L		0.0037			< 1	37	
Iron, total	1.56	0.01 mg/L		1.52			3	18	
Lead, total	0.0010	0.0001 mg/L		0.0009			11	23	
Lithium, total	0.0011	0.0001 mg/L		0.0011			4	19	
Magnesium, total	4.52	0.01 mg/L		4.45			2	10	
Manganese, total	0.0221	0.0002 mg/L		0.0223			< 1	13	
Molybdenum, total	0.0005	0.0001 mg/L		0.0006			13	20	
Nickel, total	0.0028	0.0002 mg/L		0.0025			11	28	
Phosphorus, total	0.03	0.02 mg/L		< 0.02				24	
Potassium, total	0.97	0.02 mg/L		0.94			3	13	
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	5.4	0.5 mg/L		5.4			< 1	11	
Silver, total	< 0.00005	0.00005 mg/L		< 0.00005				18	
Sodium, total	12.9	0.02 mg/L		12.8			1	10	
Strontium, total	0.085	0.001 mg/L		0.084			1	9	
Sulfur, total	12	1 mg/L		13			11	24	
Tellurium, total	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, total	< 0.00002	0.00002 mg/L		< 0.00002				24	
Thorium, total	< 0.0001	0.0001 mg/L		< 0.0001				18	
Tin, total	< 0.0002	0.0002 mg/L		< 0.0002				18	
Titanium, total	0.091	0.005 mg/L		0.087			5	32	
Uranium, total	0.00023	0.00002 mg/L		0.00022			5	14	
Vanadium, total	0.005	0.001 mg/L		0.005			< 1	17	
Zinc, total	0.005	0.004 mg/L		0.005				8	
Zirconium, total	0.0005	0.0001 mg/L		0.0006			22	60	

Reference (B7A0294-SRM1)	Prepared: 2017-01-09, Analyzed: 2017-01-09								
Aluminum, total	0.297	0.005 mg/L		0.303	98		81-129		
Antimony, total	0.0528	0.0001 mg/L		0.0511	103		88-114		
Arsenic, total	0.115	0.0005 mg/L		0.118	98		88-114		
Barium, total	0.772	0.005 mg/L		0.823	94		72-104		
Beryllium, total	0.0474	0.0001 mg/L		0.0496	96		76-131		
Boron, total	3.56	0.004 mg/L		3.45	103		75-121		
Cadmium, total	0.0482	0.00001 mg/L		0.0495	97		89-111		
Calcium, total	11.4	0.2 mg/L		11.6	98		86-121		
Chromium, total	0.245	0.0005 mg/L		0.250	98		89-114		
Cobalt, total	0.0389	0.00005 mg/L		0.0377	103		91-113		
Copper, total	0.515	0.0002 mg/L		0.486	106		91-115		
Iron, total	0.48	0.01 mg/L		0.488	99		77-124		
Lead, total	0.209	0.0001 mg/L		0.204	103		92-113		
Lithium, total	0.381	0.0001 mg/L		0.403	95		85-115		
Magnesium, total	3.85	0.01 mg/L		3.79	102		78-120		
Manganese, total	0.107	0.0002 mg/L		0.109	98		90-114		
Molybdenum, total	0.200	0.0001 mg/L		0.198	101		90-111		
Nickel, total	0.250	0.0002 mg/L		0.249	100		90-111		
Phosphorus, total	0.21	0.02 mg/L		0.227	91		85-115		
Potassium, total	7.33	0.02 mg/L		7.21	102		84-113		
Selenium, total	0.124	0.0005 mg/L		0.121	102		85-115		
Sodium, total	7.76	0.02 mg/L		7.54	103		82-123		
Strontium, total	0.369	0.001 mg/L		0.375	98		88-112		
Thallium, total	0.0833	0.00002 mg/L		0.0805	103		91-114		
Uranium, total	0.0295	0.00002 mg/L		0.0306	97		85-120		
Vanadium, total	0.374	0.001 mg/L		0.386	97		86-111		
Zinc, total	2.46	0.004 mg/L		2.49	99		85-111		

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Total Metals, Batch B7A0294, Continued

Volatile Organic Compounds (VOC), Batch B6L1335

Blank (B6L1335-BLK1)			Prepared: 2016-12-23, Analyzed: 2016-12-24						
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	< 0.5	0.5 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	< 0.2	0.2 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	< 0.5	0.5 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	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	27.0	µg/L	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	26.8	µg/L	25.0		107	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	25.8	µg/L	25.0		103	70-130			

LCS (B6L1335-BS1)			Prepared: 2016-12-23, Analyzed: 2016-12-23						
Benzene	23.1	0.5 µg/L	20.0		116	70-130			
Bromodichloromethane	23.8	1.0 µg/L	20.0		119	70-130			
Bromoform	23.8	1.0 µg/L	20.0		119	70-130			
Bromomethane	22.0	2.0 µg/L	20.0		110	70-130			
Carbon tetrachloride	23.5	0.5 µg/L	20.0		117	70-130			
Chlorobenzene	22.7	1.0 µg/L	20.0		113	70-130			
Chloroethane	17.6	2.0 µg/L	20.0		88	70-130			
Chloroform	23.0	1.0 µg/L	20.0		115	70-130			
Chloromethane	23.1	2.0 µg/L	20.0		116	70-130			
Dibromochloromethane	22.8	1.0 µg/L	20.0		114	70-130			
1,2-Dibromoethane	21.7	0.2 µg/L	20.0		109	70-130			
Dibromomethane	22.6	1.0 µg/L	20.0		113	70-130			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Volatile Organic Compounds (VOC), Batch B6L1335, Continued									
LCS (B6L1335-BS1), Continued					Prepared: 2016-12-23, Analyzed: 2016-12-23				
1,2-Dichlorobenzene	23.9	0.5 µg/L	20.0		119	70-130			
1,3-Dichlorobenzene	23.2	1.0 µg/L	20.0		116	70-130			
1,4-Dichlorobenzene	23.8	1.0 µg/L	20.0		119	70-130			
1,1-Dichloroethane	22.6	1.0 µg/L	20.0		113	70-130			
1,2-Dichloroethane	23.6	1.0 µg/L	20.0		118	70-130			
1,1-Dichloroethene	22.3	1.0 µg/L	20.0		112	70-130			
cis-1,2-Dichloroethene	22.4	1.0 µg/L	20.0		112	70-130			
trans-1,2-Dichloroethene	21.5	1.0 µg/L	20.0		107	70-130			
1,2-Dichloropropane	22.4	1.0 µg/L	20.0		112	70-130			
cis-1,3-Dichloropropene	20.6	1.0 µg/L	20.0		103	70-130			
trans-1,3-Dichloropropene	20.3	1.0 µg/L	20.0		102	70-130			
Ethylbenzene	23.0	1.0 µg/L	20.0		115	70-130			
Methyl tert-butyl ether	23.4	1.0 µg/L	20.0		117	70-130			
Methylene chloride	21.7	3.0 µg/L	20.0		108	70-130			
Styrene	22.4	1.0 µg/L	20.0		112	70-130			
1,1,1,2-Tetrachloroethane	22.3	1.0 µg/L	20.0		111	70-130			
1,1,2,2-Tetrachloroethane	23.2	0.5 µg/L	20.0		116	70-130			
Tetrachloroethene	23.4	1.0 µg/L	20.0		117	70-130			
Toluene	22.7	1.0 µg/L	20.0		114	70-130			
1,1,1-Trichloroethane	22.9	1.0 µg/L	20.0		114	70-130			
1,1,2-Trichloroethane	23.5	1.0 µg/L	20.0		117	70-130			
Trichloroethene	23.4	1.0 µg/L	20.0		117	70-130			
Trichlorofluoromethane	25.9	1.0 µg/L	20.0		130	70-130			
Vinyl chloride	22.3	1.0 µg/L	20.0		112	70-130			
Xylenes (total)	66.1	2.0 µg/L	60.0		110	70-130			
Surrogate: Toluene-d8	27.9	µg/L	25.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	25.8	µg/L	25.0		103	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	27.5	µg/L	25.0		110	70-130			

QC Qualifiers:

RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

		6121459-01	6121459-02
		Water	Water
		2016-12-20	2016-12-20
		1-Weir	2-SW1
Anions	Chloride (mg/L)	22.7	18.3
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.253	0.422
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	41.3	46.4
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	34	43
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	34	43
	Alkalinity, Carbonate (as CaCO3) (mg/L)	< 1	< 1
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	< 1	< 1
	Colour, True (CU)	8	< 5
	Conductivity (EC) (uS/cm)	240	261
	pH (pH units)	7.51	7.53
	Solids, Total Dissolved (mg/L)	146	149
	Solids, Total Suspended (mg/L)	13	3
	Turbidity (NTU)	26.5	8.61
Calculated Parameters	Hardness, Total (as CaCO3) (mg/L)	81.4	94.8
Dissolved Metals	Aluminum, dissolved (mg/L)	0.012	< 0.005
	Antimony, dissolved (mg/L)	0.0001	0.0001
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	< 0.005	< 0.005
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.011	0.012
	Cadmium, dissolved (mg/L)	< 0.00001	< 0.00001
	Calcium, dissolved (mg/L)	25.8	30.3
	Chromium, dissolved (mg/L)	< 0.0005	< 0.0005
	Cobalt, dissolved (mg/L)	< 0.00005	< 0.00005
	Copper, dissolved (mg/L)	0.0003	0.0006
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	< 0.0001	< 0.0001
	Magnesium, dissolved (mg/L)	4.12	4.64
	Manganese, dissolved (mg/L)	0.0007	0.0009
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0005	0.0007
	Nickel, dissolved (mg/L)	0.0005	0.0002
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	0.74	0.67
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	1.0	1.8
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005
	Sodium, dissolved (mg/L)	12.8	10.3
	Strontium, dissolved (mg/L)	0.081	0.086

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

		6121459-01	6121459-02
		Water	Water
		2016-12-20	2016-12-20
		1-Weir	2-SW1
Dissolved Metals	Sulfur, dissolved (mg/L)	13	14
	Tellurium, dissolved (mg/L)	< 0.0002	< 0.0002
	Thallium, dissolved (mg/L)	< 0.00002	< 0.00002
	Thorium, dissolved (mg/L)	< 0.0001	< 0.0001
	Tin, dissolved (mg/L)	< 0.0002	< 0.0002
	Titanium, dissolved (mg/L)	< 0.005	< 0.005
	Uranium, dissolved (mg/L)	0.00021	0.00029
	Vanadium, dissolved (mg/L)	< 0.001	< 0.001
	Zinc, dissolved (mg/L)	< 0.004	< 0.004
	Zirconium, dissolved (mg/L)	< 0.0001	< 0.0001
Total Metals	Aluminum, total (mg/L)	1.65	0.399
	Antimony, total (mg/L)	0.0002	0.0001
	Arsenic, total (mg/L)	< 0.0005	< 0.0005
	Barium, total (mg/L)	0.013	0.008
	Beryllium, total (mg/L)	< 0.0001	< 0.0001
	Bismuth, total (mg/L)	< 0.0001	< 0.0001
	Boron, total (mg/L)	0.021	0.013
	Cadmium, total (mg/L)	< 0.00001	< 0.00001
	Calcium, total (mg/L)	26.4	30.1
	Chromium, total (mg/L)	0.0029	0.0008
	Cobalt, total (mg/L)	0.00066	0.00026
	Copper, total (mg/L)	0.0037	0.0021
	Iron, total (mg/L)	1.52	0.42
	Lead, total (mg/L)	0.0009	0.0004
	Lithium, total (mg/L)	0.0011	0.0003
	Magnesium, total (mg/L)	4.45	4.77
	Manganese, total (mg/L)	0.0223	0.0078
	Mercury, total (mg/L)	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0006	0.0007
	Nickel, total (mg/L)	0.0025	0.0019
	Phosphorus, total (mg/L)	< 0.02	< 0.02
	Potassium, total (mg/L)	0.94	0.73
	Selenium, total (mg/L)	< 0.0005	< 0.0005
	Silicon, total (mg/L)	5.4	2.5
	Silver, total (mg/L)	< 0.00005	< 0.00005
	Sodium, total (mg/L)	12.8	10.4
	Strontium, total (mg/L)	0.084	0.087
	Sulfur, total (mg/L)	13	13
	Tellurium, total (mg/L)	< 0.0002	< 0.0002
	Thallium, total (mg/L)	< 0.00002	< 0.00002
	Thorium, total (mg/L)	< 0.0001	< 0.0001
	Tin, total (mg/L)	< 0.0002	< 0.0002
	Titanium, total (mg/L)	0.087	0.017
Uranium, total (mg/L)	0.00022	0.00031	
Vanadium, total (mg/L)	0.005	0.002	

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WORK ORDER REPORTED 6121459
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		6121459-01	6121459-02
		Water	Water
		2016-12-20	2016-12-20
		1-Weir	2-SW1
Total Metals	Zinc, total (mg/L)	0.005	< 0.004
	Zirconium, total (mg/L)	0.0006	0.0001
BCMOE Aggregate Hydrocarbons	EPHw10-19 (ug/L)	< 250	< 250
	EPHw19-32 (ug/L)	< 250	< 250
	LEPHw (ug/L)	< 250	< 250
	HEPHw (ug/L)	< 250	< 250
	Sur: 2-Methylnonane (%)	98	104
Glycols	Propylene glycol (mg/L)	< 5	< 5
	Ethylene glycol (mg/L)	< 5	< 5
	Diethylene glycol (mg/L)	< 5	< 5
	Triethylene glycol (mg/L)	< 5	< 5
	Sur: Tetramethylene Glycol (%)	107	103
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	< 0.05	< 0.05
	Acenaphthylene (ug/L)	< 0.20	< 0.20
	Acridine (ug/L)	< 0.05	< 0.05
	Anthracene (ug/L)	< 0.01	< 0.01
	Benz (a) anthracene (ug/L)	< 0.01	< 0.01
	Benzo (a) pyrene (ug/L)	< 0.01	< 0.01
	Benzo (b) fluoranthene (ug/L)	< 0.05	< 0.05
	Benzo (b+j) fluoranthene (ug/L)	< 0.05	< 0.05
	Benzo (g,h,i) perylene (ug/L)	< 0.05	< 0.05
	Benzo (k) fluoranthene (ug/L)	< 0.05	< 0.05
	Chrysene (ug/L)	< 0.05	< 0.05
	Dibenz (a,h) anthracene (ug/L)	< 0.05	< 0.05
	Fluoranthene (ug/L)	< 0.03	< 0.03
	Fluorene (ug/L)	< 0.05	< 0.05
	Indeno (1,2,3-cd) pyrene (ug/L)	< 0.05	< 0.05
	Naphthalene (ug/L)	< 0.20	< 0.20
	Phenanthrene (ug/L)	< 0.10	< 0.10
	Pyrene (ug/L)	< 0.02	< 0.02
	Quinoline (ug/L)	< 0.05	< 0.05
	Sur: Acridine-d9 (%)	90	89
Sur: Naphthalene-d8 (%)	98	100	
Sur: Perylene-d12 (%)	102	102	
Volatile Organic Compounds (VOC)	Benzene (ug/L)	< 0.5	< 0.5
	Bromodichloromethane (ug/L)	< 1.0	< 1.0
	Bromoform (ug/L)	< 1.0	< 1.0
	Bromomethane (ug/L)	< 2.0	< 2.0
	Carbon tetrachloride (ug/L)	< 0.5	< 0.5
	Chlorobenzene (ug/L)	< 1.0	< 1.0
	Chloroethane (ug/L)	< 2.0	< 2.0
	Chloroform (ug/L)	< 1.0	< 1.0
	Chloromethane (ug/L)	< 2.0	< 2.0
	Dibromochloromethane (ug/L)	< 1.0	< 1.0
	1,2-Dibromoethane (ug/L)	< 0.2	< 0.2

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

		6121459-01	6121459-02
		Water	Water
		2016-12-20	2016-12-20
		1-Weir	2-SW1
Volatile Organic Compounds (VOC)	Dibromomethane (ug/L)	< 1.0	< 1.0
	1,2-Dichlorobenzene (ug/L)	< 0.5	< 0.5
	1,3-Dichlorobenzene (ug/L)	< 1.0	< 1.0
	1,4-Dichlorobenzene (ug/L)	< 1.0	< 1.0
	1,1-Dichloroethane (ug/L)	< 1.0	< 1.0
	1,2-Dichloroethane (ug/L)	< 1.0	< 1.0
	1,1-Dichloroethene (ug/L)	< 1.0	< 1.0
	cis-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0
	trans-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0
	1,2-Dichloropropane (ug/L)	< 1.0	< 1.0
	cis-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0
	trans-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0
	Ethylbenzene (ug/L)	< 1.0	< 1.0
	Methyl tert-butyl ether (ug/L)	< 1.0	< 1.0
	Methylene chloride (ug/L)	< 3.0	< 3.0
	Styrene (ug/L)	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane (ug/L)	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane (ug/L)	< 0.5	< 0.5
	Tetrachloroethene (ug/L)	< 1.0	< 1.0
	Toluene (ug/L)	< 1.0	< 1.0
	1,1,1-Trichloroethane (ug/L)	< 1.0	< 1.0
	1,1,2-Trichloroethane (ug/L)	< 1.0	< 1.0
	Trichloroethene (ug/L)	< 1.0	< 1.0
	Trichlorofluoromethane (ug/L)	< 1.0	< 1.0
	Vinyl chloride (ug/L)	< 1.0	< 1.0
	Xylenes (total) (ug/L)	< 2.0	< 2.0
	Sur: Toluene-d8 (%)	108	109
Sur: 4-Bromofluorobenzene (%)	104	104	
Sur: 1,4-Dichlorobenzene-d4 (%)	95	96	

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6121459
2017-01-09

Sample ID	Changed	Change	Analysis	Analyte(s)
6121459-01	2017-01-06	Added	Metals, Total by ICPMS (All) Pkg	

<p>Client Information Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726</p>	<p>Project Information SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5</p>	<p>Laboratory Information CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599</p>	<p>COC Information Number: 20161220 Shipped via: Harbour Air</p>
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#1	1-Weir (Template: 01) 12/20/2016 15:00 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1)
#2	2-SW1 (Template: 01) 12/20/2016 15:15 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1)

Relinquished by	Date/Time	Accepted by	Date/Time