

**REPORTED TO** Allterra Construction  
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**WORK ORDER** 6120835

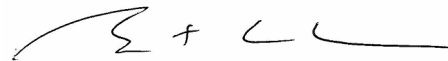
**PO NUMBER** P15-06 SIRM  
**PROJECT** SIRM 460 Stebbings  
**PROJECT INFO**

**RECEIVED / TEMP** 2016-12-13 09:00 / 7°C  
**REPORTED** 2016-12-20  
**COC NUMBER** 20161211

**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.



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**WORK ORDER** 6120835  
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<b>Analysis Information</b> Analysis Descriptions, Method References, Glossary of Terms	Page 3
<b>Sample Analytical Data</b> Test Results, Reporting Limits, Analysis Dates, Sample & Analysis Notes	Page 4
<b>Quality Control Data</b> Method Blanks, Duplicates, Spikes, Reference Materials	Appendix 1
<b>Analytical Summary</b> Tabulated data in condensed format to assist with comparisons	Appendix 2
<b>Chain of Custody Document</b> Analysis instructions provided by client	Appendix 5

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

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
Chromium, Hexavalent (Total) in Water	APHA 3500-Cr B	Colorimetry	Richmond
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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SIRM 460 Stebbings

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2016-12-20

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 1-Weir (6120835-01) [Water] Sampled: 2016-12-11 12:15**

**Anions**

Chloride	18.4	± 0.8	0.10	mg/L	N/A	2016-12-14	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-12-14	
Nitrate (as N)	0.228	± 0.029	0.010	mg/L	N/A	2016-12-14	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-12-14	
Sulfate	39.8	± 4.7	1.0	mg/L	N/A	2016-12-14	

**General Parameters**

Alkalinity, Total (as CaCO3)	26	± 2	1	mg/L	N/A	2016-12-14	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Alkalinity, Bicarbonate (as CaCO3)	26	± 1	1	mg/L	N/A	2016-12-14	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2016-12-15	
Colour, True	6	± 4	5	CU	N/A	2016-12-14	
Conductivity (EC)	204	± 3	2	µS/cm	N/A	2016-12-14	
pH	7.23	± 0.02	0.01	pH units	N/A	2016-12-14	HT2
Solids, Total Dissolved	115	± 13	10	mg/L	N/A	2016-12-16	
Solids, Total Suspended	9	± 1	2	mg/L	N/A	2016-12-16	
Turbidity	18.1	± 0.8	0.10	NTU	N/A	2016-12-14	

**Calculated Parameters**

Chromium, Trivalent	0.002		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	62.9		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	0.007	± 0.002	0.005	mg/L	N/A	2016-12-15	
Antimony, dissolved	0.0001	± 0.0001	0.0001	mg/L	N/A	2016-12-15	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-15	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-15	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Boron, dissolved	0.015	± 0.004	0.004	mg/L	N/A	2016-12-15	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-12-15	
Calcium, dissolved	19.8	± 3.4	0.2	mg/L	N/A	2016-12-15	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-15	
Cobalt, dissolved	0.00007	± 0.00001	0.00005	mg/L	N/A	2016-12-15	
Copper, dissolved	0.0008	± 0.0003	0.0002	mg/L	N/A	2016-12-15	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-12-15	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Lithium, dissolved	0.0001		0.0001	mg/L	N/A	2016-12-15	
Magnesium, dissolved	3.29	± 0.62	0.01	mg/L	N/A	2016-12-15	
Manganese, dissolved	0.0016	± 0.0003	0.0002	mg/L	N/A	2016-12-15	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-12-14	2016-12-14	
Molybdenum, dissolved	0.0005	± 0.0001	0.0001	mg/L	N/A	2016-12-15	
Nickel, dissolved	0.0005	± 0.0002	0.0002	mg/L	N/A	2016-12-15	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-12-15	

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SIRM 460 Stebbings

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**Sample ID: 1-Weir (6120835-01) [Water] Sampled: 2016-12-11 12:15, Continued**

***Dissolved Metals, Continued***

Potassium, dissolved	0.66	± 0.10	0.02	mg/L	N/A	2016-12-15	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-15	
Silicon, dissolved	1.7	± 0.8	0.5	mg/L	N/A	2016-12-15	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-15	
Sodium, dissolved	11.3	± 1.9	0.02	mg/L	N/A	2016-12-15	
Strontium, dissolved	0.070	± 0.008	0.001	mg/L	N/A	2016-12-15	
Sulfur, dissolved	13	± 210	1	mg/L	N/A	2016-12-15	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-15	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-12-15	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-15	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-15	
Uranium, dissolved	0.00014	± 0.00002	0.00002	mg/L	N/A	2016-12-15	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-12-15	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-12-15	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	

***Total Metals***

Aluminum, total	0.901	± 0.164	0.005	mg/L	2016-12-15	2016-12-15	
Antimony, total	0.0001	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-12-15	2016-12-15	
Barium, total	0.009	± 0.001	0.005	mg/L	2016-12-15	2016-12-15	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Boron, total	0.017	± 0.005	0.004	mg/L	2016-12-15	2016-12-15	
Cadmium, total	0.00001	± 0.00002	0.00001	mg/L	2016-12-15	2016-12-15	
Calcium, total	22.4	± 2.7	0.2	mg/L	2016-12-15	2016-12-15	
Chromium, total	0.0021	± 0.0003	0.0005	mg/L	2016-12-15	2016-12-15	
Cobalt, total	0.00050	± 0.00005	0.00005	mg/L	2016-12-15	2016-12-15	
Copper, total	0.0030	± 0.0004	0.0002	mg/L	2016-12-15	2016-12-15	
Iron, total	0.89	± 0.17	0.01	mg/L	2016-12-15	2016-12-15	
Lead, total	0.0007	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Lithium, total	0.0006	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Magnesium, total	3.76	± 0.57	0.01	mg/L	2016-12-15	2016-12-15	
Manganese, total	0.0150	± 0.0014	0.0002	mg/L	2016-12-15	2016-12-15	
Mercury, total	< 0.00002		0.00002	mg/L	2016-12-14	2016-12-14	
Molybdenum, total	0.0004		0.0001	mg/L	2016-12-15	2016-12-15	
Nickel, total	0.0019	± 0.0002	0.0002	mg/L	2016-12-15	2016-12-15	
Phosphorus, total	< 0.02		0.02	mg/L	2016-12-15	2016-12-15	
Potassium, total	0.80	± 0.10	0.02	mg/L	2016-12-15	2016-12-15	
Selenium, total	< 0.0005		0.0005	mg/L	2016-12-15	2016-12-15	
Silicon, total	3.3	± 1.2	0.5	mg/L	2016-12-15	2016-12-15	
Silver, total	< 0.00005		0.00005	mg/L	2016-12-15	2016-12-15	
Sodium, total	11.7	± 1.7	0.02	mg/L	2016-12-15	2016-12-15	
Strontium, total	0.073	± 0.007	0.001	mg/L	2016-12-15	2016-12-15	
Sulfur, total	14	± 112	1	mg/L	2016-12-15	2016-12-15	

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SIRM 460 Stebbings

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2016-12-20

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**Sample ID: 1-Weir (6120835-01) [Water] Sampled: 2016-12-11 12:15, Continued**

**Total Metals, Continued**

Tellurium, total	< 0.0002		0.0002	mg/L	2016-12-15	2016-12-15	
Thallium, total	< 0.00002		0.00002	mg/L	2016-12-15	2016-12-15	
Thorium, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Tin, total	< 0.0002		0.0002	mg/L	2016-12-15	2016-12-15	
Titanium, total	<b>0.039</b>	± 0.005	0.005	mg/L	2016-12-15	2016-12-15	
Uranium, total	<b>0.00020</b>	± 0.00001	0.00002	mg/L	2016-12-15	2016-12-15	
Vanadium, total	<b>0.003</b>		0.001	mg/L	2016-12-15	2016-12-15	
Zinc, total	<b>0.005</b>	± 0.002	0.004	mg/L	2016-12-15	2016-12-15	
Zirconium, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	

**BCMEOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-12-14	2016-12-14	
EPHw19-32	< 250		250	µg/L	2016-12-14	2016-12-14	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	93		60-140	%	2016-12-14	2016-12-14	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Ethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Diethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Triethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
<i>Surrogate: Tetramethylene Glycol</i>	84		66-125	%	N/A	2016-12-15	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Acenaphthylene	< 0.20		0.20	µg/L	2016-12-14	2016-12-15	
Acridine	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Anthracene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Chrysene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Fluoranthene	< 0.03		0.03	µg/L	2016-12-14	2016-12-15	
Fluorene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Naphthalene	< 0.20		0.20	µg/L	2016-12-14	2016-12-15	
Phenanthrene	< 0.10		0.10	µg/L	2016-12-14	2016-12-15	
Pyrene	< 0.02		0.02	µg/L	2016-12-14	2016-12-15	
Quinoline	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
<i>Surrogate: Acridine-d9</i>	64		60-130	%	2016-12-14	2016-12-15	
<i>Surrogate: Naphthalene-d8</i>	82		60-130	%	2016-12-14	2016-12-15	
<i>Surrogate: Perylene-d12</i>	101		60-130	%	2016-12-14	2016-12-15	

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SIRM 460 Stebbings

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2016-12-20

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**Sample ID: 1-Weir (6120835-01) [Water] Sampled: 2016-12-11 12:15, Continued**

<b>Volatile Organic Compounds (VOC)</b>							
Benzene	< 0.5		0.5	µg/L	N/A	2016-12-16	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-12-16	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Carbon tetrachloride	< 0.5		0.5	µg/L	N/A	2016-12-16	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-12-16	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dibromoethane	< 0.2		0.2	µg/L	N/A	2016-12-16	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-12-16	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-12-16	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-12-16	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-12-16	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-12-16	
Styrene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	N/A	2016-12-16	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Toluene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Vinyl chloride	< 1.0		1.0	µg/L	N/A	2016-12-16	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-12-16	
Surrogate: Toluene-d8	102		70-130	%	N/A	2016-12-16	
Surrogate: 4-Bromofluorobenzene	99		70-130	%	N/A	2016-12-16	
Surrogate: 1,4-Dichlorobenzene-d4	88		70-130	%	N/A	2016-12-16	

**Sample ID: 2-SW1 (6120835-02) [Water] Sampled: 2016-12-11 12:30**

<b>Anions</b>							
Chloride	16.1 ± 0.7		0.10	mg/L	N/A	2016-12-15	

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2016-12-20

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (6120835-02) [Water] Sampled: 2016-12-11 12:30, Continued**

**Anions, Continued**

Fluoride	< 0.10		0.10	mg/L	N/A	2016-12-15	
Nitrate (as N)	<b>0.411</b>	± 0.051	0.010	mg/L	N/A	2016-12-13	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-12-13	
Sulfate	<b>48.0</b>	± 5.7	1.0	mg/L	N/A	2016-12-15	

**General Parameters**

Alkalinity, Total (as CaCO3)	<b>42</b>	± 2	1	mg/L	N/A	2016-12-14	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Alkalinity, Bicarbonate (as CaCO3)	<b>42</b>	± 2	1	mg/L	N/A	2016-12-14	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-12-14	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2016-12-15	
Colour, True	< 5		5	CU	N/A	2016-12-14	
Conductivity (EC)	<b>243</b>	± 4	2	µS/cm	N/A	2016-12-14	
pH	<b>7.37</b>	± 0.02	0.01	pH units	N/A	2016-12-14	HT2
Solids, Total Dissolved	<b>146</b>	± 15	10	mg/L	N/A	2016-12-16	
Solids, Total Suspended	<b>3</b>	± 1	2	mg/L	N/A	2016-12-16	
Turbidity	<b>7.60</b>	± 0.35	0.10	NTU	N/A	2016-12-14	

**Calculated Parameters**

Chromium, Trivalent	< 0.001		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	<b>86.9</b>		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-15	
Antimony, dissolved	<b>0.0001</b>	± 0.0001	0.0001	mg/L	N/A	2016-12-15	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-15	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-15	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Boron, dissolved	<b>0.015</b>	± 0.004	0.004	mg/L	N/A	2016-12-15	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-12-15	
Calcium, dissolved	<b>27.2</b>	± 4.6	0.2	mg/L	N/A	2016-12-15	
Chromium, dissolved	<b>0.0006</b>	± 0.0002	0.0005	mg/L	N/A	2016-12-15	
Cobalt, dissolved	<b>0.00006</b>	± 0.00001	0.00005	mg/L	N/A	2016-12-15	
Copper, dissolved	<b>0.0009</b>	± 0.0003	0.0002	mg/L	N/A	2016-12-15	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-12-15	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Lithium, dissolved	<b>0.0001</b>		0.0001	mg/L	N/A	2016-12-15	
Magnesium, dissolved	<b>4.62</b>	± 0.87	0.01	mg/L	N/A	2016-12-15	
Manganese, dissolved	<b>0.0020</b>	± 0.0003	0.0002	mg/L	N/A	2016-12-15	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-12-14	2016-12-14	
Molybdenum, dissolved	<b>0.0006</b>	± 0.0001	0.0001	mg/L	N/A	2016-12-15	
Nickel, dissolved	<b>0.0004</b>	± 0.0002	0.0002	mg/L	N/A	2016-12-15	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-12-15	
Potassium, dissolved	<b>0.66</b>	± 0.10	0.02	mg/L	N/A	2016-12-15	



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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (6120835-02) [Water] Sampled: 2016-12-11 12:30, Continued**

***Dissolved Metals, Continued***

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-12-15	
Silicon, dissolved	<b>2.8</b>	± 1.4	0.5	mg/L	N/A	2016-12-15	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-12-15	
Sodium, dissolved	<b>9.71</b>	± 1.65	0.02	mg/L	N/A	2016-12-15	
Strontium, dissolved	<b>0.087</b>	± 0.010	0.001	mg/L	N/A	2016-12-15	
Sulfur, dissolved	<b>15</b>	± 232	1	mg/L	N/A	2016-12-15	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-15	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-12-15	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-12-15	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-12-15	
Uranium, dissolved	<b>0.00023</b>	± 0.00003	0.00002	mg/L	N/A	2016-12-15	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-12-15	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-12-15	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-12-15	

***Total Metals***

Aluminum, total	<b>0.183</b>	± 0.034	0.005	mg/L	2016-12-15	2016-12-15	
Antimony, total	<b>0.0001</b>	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-12-15	2016-12-15	
Barium, total	<b>0.006</b>	± 0.001	0.005	mg/L	2016-12-15	2016-12-15	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Boron, total	<b>0.017</b>	± 0.005	0.004	mg/L	2016-12-15	2016-12-15	
Cadmium, total	< 0.00001		0.00001	mg/L	2016-12-15	2016-12-15	
Calcium, total	<b>30.3</b>	± 3.7	0.2	mg/L	2016-12-15	2016-12-15	
Chromium, total	< 0.0005		0.0005	mg/L	2016-12-15	2016-12-15	
Cobalt, total	<b>0.00021</b>	± 0.00002	0.00005	mg/L	2016-12-15	2016-12-15	
Copper, total	<b>0.0018</b>	± 0.0003	0.0002	mg/L	2016-12-15	2016-12-15	
Iron, total	<b>0.19</b>	± 0.04	0.01	mg/L	2016-12-15	2016-12-15	
Lead, total	<b>0.0003</b>	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Lithium, total	<b>0.0003</b>		0.0001	mg/L	2016-12-15	2016-12-15	
Magnesium, total	<b>4.85</b>	± 0.74	0.01	mg/L	2016-12-15	2016-12-15	
Manganese, total	<b>0.0068</b>	± 0.0006	0.0002	mg/L	2016-12-15	2016-12-15	
Mercury, total	< 0.00002		0.00002	mg/L	2016-12-14	2016-12-14	
Molybdenum, total	<b>0.0006</b>	± 0.0001	0.0001	mg/L	2016-12-15	2016-12-15	
Nickel, total	<b>0.0008</b>	± 0.0001	0.0002	mg/L	2016-12-15	2016-12-15	
Phosphorus, total	< 0.02		0.02	mg/L	2016-12-15	2016-12-15	
Potassium, total	<b>0.70</b>	± 0.09	0.02	mg/L	2016-12-15	2016-12-15	
Selenium, total	< 0.0005		0.0005	mg/L	2016-12-15	2016-12-15	
Silicon, total	<b>3.0</b>	± 1.1	0.5	mg/L	2016-12-15	2016-12-15	
Silver, total	< 0.00005		0.00005	mg/L	2016-12-15	2016-12-15	
Sodium, total	<b>9.95</b>	± 1.47	0.02	mg/L	2016-12-15	2016-12-15	
Strontium, total	<b>0.086</b>	± 0.008	0.001	mg/L	2016-12-15	2016-12-15	
Sulfur, total	<b>15</b>	± 119	1	mg/L	2016-12-15	2016-12-15	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-12-15	2016-12-15	

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (6120835-02) [Water] Sampled: 2016-12-11 12:30, Continued**

**Total Metals, Continued**

Thallium, total	< 0.00002		0.00002	mg/L	2016-12-15	2016-12-15	
Thorium, total	< 0.0001		0.0001	mg/L	2016-12-15	2016-12-15	
Tin, total	< 0.0002		0.0002	mg/L	2016-12-15	2016-12-15	
Titanium, total	<b>0.006</b>	± 0.001	0.005	mg/L	2016-12-15	2016-12-15	
Uranium, total	<b>0.00027</b>	± 0.00002	0.00002	mg/L	2016-12-15	2016-12-15	
Vanadium, total	<b>0.001</b>		0.001	mg/L	2016-12-15	2016-12-15	
Zinc, total	< 0.004		0.004	mg/L	2016-12-15	2016-12-15	
Zirconium, total	<b>0.0001</b>		0.0001	mg/L	2016-12-15	2016-12-15	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-12-14	2016-12-14	
EPHw19-32	< 250		250	µg/L	2016-12-14	2016-12-14	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	90		60-140	%	2016-12-14	2016-12-14	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Ethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Diethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Triethylene glycol	< 5		5	mg/L	N/A	2016-12-15	
Surrogate: Tetramethylene Glycol	88		66-125	%	N/A	2016-12-15	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Acenaphthylene	< 0.20		0.20	µg/L	2016-12-14	2016-12-15	
Acridine	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Anthracene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-12-14	2016-12-15	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Chrysene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Fluoranthene	< 0.03		0.03	µg/L	2016-12-14	2016-12-15	
Fluorene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Naphthalene	< 0.20		0.20	µg/L	2016-12-14	2016-12-15	
Phenanthrene	< 0.10		0.10	µg/L	2016-12-14	2016-12-15	
Pyrene	< 0.02		0.02	µg/L	2016-12-14	2016-12-15	
Quinoline	< 0.05		0.05	µg/L	2016-12-14	2016-12-15	
Surrogate: Acridine-d9	63		60-130	%	2016-12-14	2016-12-15	
Surrogate: Naphthalene-d8	86		60-130	%	2016-12-14	2016-12-15	
Surrogate: Perylene-d12	100		60-130	%	2016-12-14	2016-12-15	

**Volatile Organic Compounds (VOC)**

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (6120835-02) [Water] Sampled: 2016-12-11 12:30, Continued**

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

Benzene	< 0.5		0.5	µg/L	N/A	2016-12-16	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-12-16	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Carbon tetrachloride	< 0.5		0.5	µg/L	N/A	2016-12-16	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-12-16	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-12-16	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dibromoethane	< 0.2		0.2	µg/L	N/A	2016-12-16	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-12-16	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-12-16	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-12-16	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-12-16	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-12-16	
Styrene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	N/A	2016-12-16	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Toluene	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-12-16	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-12-16	
Vinyl chloride	< 1.0		1.0	µg/L	N/A	2016-12-16	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-12-16	
Surrogate: Toluene-d8	102		70-130	%	N/A	2016-12-16	
Surrogate: 4-Bromofluorobenzene	100		70-130	%	N/A	2016-12-16	
Surrogate: 1,4-Dichlorobenzene-d4	89		70-130	%	N/A	2016-12-16	

**Sample / Analysis Qualifiers:**

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

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

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
<b>Anions, Batch B6L0837</b>									
<b>Blank (B6L0837-BLK1)</b> Prepared: 2016-12-15, Analyzed: 2016-12-15									
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							
<b>Blank (B6L0837-BLK2)</b> Prepared: 2016-12-15, Analyzed: 2016-12-15									
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							
<b>LCS (B6L0837-BS1)</b> Prepared: 2016-12-14, Analyzed: 2016-12-14									
Chloride	16.3	0.10 mg/L	16.0		102	90-110			
Fluoride	3.93	0.10 mg/L	4.00		98	88-108			
Nitrate (as N)	4.03	0.010 mg/L	4.00		101	93-108			
Nitrite (as N)	2.00	0.010 mg/L	2.00		100	83-110			
Sulfate	15.9	1.0 mg/L	16.0		99	91-109			
<b>LCS (B6L0837-BS2)</b> Prepared: 2016-12-15, Analyzed: 2016-12-15									
Chloride	16.3	0.10 mg/L	16.0		102	90-110			
Fluoride	3.62	0.10 mg/L	4.00		91	88-108			
Nitrate (as N)	4.09	0.010 mg/L	4.00		102	93-108			
Nitrite (as N)	2.06	0.010 mg/L	2.00		103	83-110			
Sulfate	16.0	1.0 mg/L	16.0		100	91-109			
<b>LCS (B6L0837-BS3)</b> Prepared: 2016-12-15, Analyzed: 2016-12-15									
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	3.78	0.10 mg/L	4.00		94	88-108			
Nitrate (as N)	4.01	0.010 mg/L	4.00		100	93-108			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	83-110			
Sulfate	15.9	1.0 mg/L	16.0		99	91-109			

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Anions, Batch B6L0837, Continued**

<b>Duplicate (B6L0837-DUP1)</b>		<b>Source: 6120835-01</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>					
Chloride	18.4	0.10	mg/L	18.4			< 1	10	
Fluoride	< 0.10	0.10	mg/L	< 0.10				10	
Nitrate (as N)	0.227	0.010	mg/L	0.228			< 1	10	
Nitrite (as N)	< 0.010	0.010	mg/L	< 0.010				6	
Sulfate	39.8	1.0	mg/L	39.8			< 1	6	
<b>Matrix Spike (B6L0837-MS1)</b>		<b>Source: 6120835-01</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>					
Chloride	34.4	0.10	mg/L	16.0	18.4	100		75-125	
Fluoride	3.85	0.10	mg/L	4.00	< 0.10	96		75-125	
Nitrate (as N)	4.22	0.010	mg/L	4.00	0.228	100		75-125	
Nitrite (as N)	2.04	0.010	mg/L	2.00	< 0.010	102		75-125	
Sulfate	55.7	1.0	mg/L	16.0	39.8	100		75-125	

**BCMOE Aggregate Hydrocarbons, Batch B6L0827**

<b>Blank (B6L0827-BLK1)</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>							
EPHw10-19	< 250	250	µg/L						
EPHw19-32	< 250	250	µg/L						
Surrogate: 2-Methylnonane	399		µg/L	444		90		60-140	
<b>LCS (B6L0827-BS2)</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>							
EPHw10-19	16200	250	µg/L	15600		104		70-130	
EPHw19-32	18900	250	µg/L	22200		85		70-130	
Surrogate: 2-Methylnonane	461		µg/L	444		104		60-140	

**Dissolved Metals, Batch B6L0832**

<b>Blank (B6L0832-BLK1)</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>							
Mercury, dissolved	< 0.00002	0.00002	mg/L						
<b>Duplicate (B6L0832-DUP1)</b>		<b>Source: 6120835-01</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>					
Mercury, dissolved	< 0.00002	0.00002	mg/L	< 0.00002					20
<b>Matrix Spike (B6L0832-MS1)</b>		<b>Source: 6120835-02</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>					
Mercury, dissolved	0.00024	0.00002	mg/L	0.000250	< 0.00002	97		70-130	
<b>Reference (B6L0832-SRM1)</b>		<b>Prepared: 2016-12-14, Analyzed: 2016-12-14</b>							
Mercury, dissolved	0.00521	0.00002	mg/L	0.00489		106		50-150	

**Dissolved Metals, Batch B6L0898**

<b>Blank (B6L0898-BLK1)</b>		<b>Prepared: 2016-12-15, Analyzed: 2016-12-15</b>							
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						

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6L0898, Continued**

**Blank (B6L0898-BLK1), Continued**

Prepared: 2016-12-15, Analyzed: 2016-12-15

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							
Zirconium, dissolved	< 0.0001	0.0001 mg/L							

**Duplicate (B6L0898-DUP1)**

Source: 6120835-01

Prepared: 2016-12-15, Analyzed: 2016-12-15

Aluminum, dissolved	0.007	0.005 mg/L		0.007					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	0.019	0.004 mg/L		0.015					13
Cadmium, dissolved	0.00001	0.00001 mg/L		< 0.00001					27
Calcium, dissolved	19.7	0.2 mg/L		19.8			< 1		8
Chromium, dissolved	0.0005	0.0005 mg/L		0.0005					14
Cobalt, dissolved	0.00007	0.00005 mg/L		0.00007					10
Copper, dissolved	0.0006	0.0002 mg/L		0.0008					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	0.0002	0.0001 mg/L		0.0001					14
Magnesium, dissolved	3.22	0.01 mg/L		3.29			2		6
Manganese, dissolved	0.0016	0.0002 mg/L		0.0016			2		9
Molybdenum, dissolved	0.0005	0.0001 mg/L		0.0005			4		19
Nickel, dissolved	0.0005	0.0002 mg/L		0.0005					21
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02					14
Potassium, dissolved	0.65	0.02 mg/L		0.66			1		8
Selenium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					36
Silicon, dissolved	1.7	0.5 mg/L		1.7					12
Silver, dissolved	< 0.00005	0.00005 mg/L		< 0.00005					20
Sodium, dissolved	11.1	0.02 mg/L		11.3			2		6
Strontium, dissolved	0.068	0.001 mg/L		0.070			2		6
Sulfur, dissolved	13	1 mg/L		13			7		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	0.00014	0.00002 mg/L		0.00014			2		14

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6L0898, Continued**

**Duplicate (B6L0898-DUP1), Continued**

Source: 6120835-01

Prepared: 2016-12-15, Analyzed: 2016-12-15

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 (B6L0898-MS1)**

Source: 6120835-02

Prepared: 2016-12-15, Analyzed: 2016-12-15

Antimony, dissolved	0.326	0.0001 mg/L	0.400	0.0001	81	76-114			
Arsenic, dissolved	0.187	0.0005 mg/L	0.200	< 0.0005	93	81-115			
Barium, dissolved	0.876	0.005 mg/L	1.00	0.005	87	80-113			
Beryllium, dissolved	0.0845	0.0001 mg/L	0.100	< 0.0001	84	69-109			
Cadmium, dissolved	0.0897	0.0001 mg/L	0.100	< 0.00001	90	83-110			
Chromium, dissolved	0.370	0.0005 mg/L	0.400	0.0006	92	85-115			
Cobalt, dissolved	0.373	0.00005 mg/L	0.400	0.00006	93	86-114			
Copper, dissolved	0.382	0.0002 mg/L	0.400	0.0009	95	82-119			
Iron, dissolved	1.88	0.010 mg/L	2.00	< 0.010	94	80-116			
Lead, dissolved	0.174	0.0001 mg/L	0.200	< 0.0001	87	83-112			
Manganese, dissolved	0.365	0.0002 mg/L	0.400	0.0020	91	62-131			
Nickel, dissolved	0.370	0.0002 mg/L	0.400	0.0004	93	81-115			
Selenium, dissolved	0.0909	0.0005 mg/L	0.100	< 0.0005	91	79-115			
Silver, dissolved	0.0987	0.00005 mg/L	0.100	< 0.00005	99	69-121			
Thallium, dissolved	0.0878	0.00002 mg/L	0.100	< 0.00002	88	84-115			
Vanadium, dissolved	0.352	0.001 mg/L	0.400	< 0.001	88	83-113			
Zinc, dissolved	0.933	0.004 mg/L	1.00	< 0.004	93	82-115			

**Reference (B6L0898-SRM1)**

Prepared: 2016-12-15, Analyzed: 2016-12-15

Aluminum, dissolved	0.241	0.005 mg/L	0.233		103	58-142			
Antimony, dissolved	0.0434	0.0001 mg/L	0.0430		101	75-125			
Arsenic, dissolved	0.480	0.0005 mg/L	0.438		110	81-119			
Barium, dissolved	3.46	0.005 mg/L	3.35		103	83-117			
Beryllium, dissolved	0.209	0.0001 mg/L	0.213		98	80-120			
Boron, dissolved	1.57	0.004 mg/L	1.74		90	74-117			
Cadmium, dissolved	0.236	0.00001 mg/L	0.224		105	83-117			
Calcium, dissolved	7.2	0.2 mg/L	7.69		94	76-124			
Chromium, dissolved	0.482	0.0005 mg/L	0.437		110	81-119			
Cobalt, dissolved	0.136	0.00005 mg/L	0.128		107	76-124			
Copper, dissolved	0.926	0.0002 mg/L	0.844		110	84-116			
Iron, dissolved	1.39	0.010 mg/L	1.29		107	74-126			
Lead, dissolved	0.106	0.0001 mg/L	0.112		95	72-128			
Lithium, dissolved	0.0957	0.0001 mg/L	0.104		92	60-140			
Magnesium, dissolved	7.21	0.01 mg/L	6.92		104	81-119			
Manganese, dissolved	0.366	0.0002 mg/L	0.345		106	84-116			
Molybdenum, dissolved	0.407	0.0001 mg/L	0.426		95	83-117			
Nickel, dissolved	0.917	0.0002 mg/L	0.840		109	74-126			
Phosphorus, dissolved	0.51	0.02 mg/L	0.495		103	68-132			
Potassium, dissolved	3.21	0.02 mg/L	3.19		101	74-126			
Selenium, dissolved	0.0338	0.0005 mg/L	0.0331		102	70-130			
Sodium, dissolved	20.0	0.02 mg/L	19.1		105	72-128			
Strontium, dissolved	0.925	0.001 mg/L	0.916		101	84-113			
Thallium, dissolved	0.0367	0.00002 mg/L	0.0393		93	57-143			
Uranium, dissolved	0.244	0.00002 mg/L	0.266		92	85-115			
Vanadium, dissolved	0.912	0.001 mg/L	0.869		105	87-113			
Zinc, dissolved	0.973	0.004 mg/L	0.881		110	72-128			

**General Parameters, Batch B6L0830**

**Blank (B6L0830-BLK1)**

Prepared: 2016-12-14, Analyzed: 2016-12-14

Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
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## APPENDIX 1: QUALITY CONTROL DATA

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B6L0830, Continued</b>									
<b>Blank (B6L0830-BLK1), Continued</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
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							
<b>Blank (B6L0830-BLK2)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
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							
<b>LCS (B6L0830-BS1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Alkalinity, Total (as CaCO3)	104	1 mg/L	100		104	92-106			
<b>LCS (B6L0830-BS2)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Alkalinity, Total (as CaCO3)	103	1 mg/L	100		103	92-106			
<b>LCS (B6L0830-BS3)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Conductivity (EC)	1400	2 µS/cm	1410		99	95-104			
<b>LCS (B6L0830-BS4)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Conductivity (EC)	1430	2 µS/cm	1410		101	95-104			
<b>Reference (B6L0830-SRM1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
pH	7.00	0.01 pH units	7.00		100	98-102			
<b>Reference (B6L0830-SRM2)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
pH	7.00	0.01 pH units	7.00		100	98-102			
<b>General Parameters, Batch B6L0835</b>									
<b>Blank (B6L0835-BLK1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B6L0835-BS1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Turbidity	38.8	0.10 NTU	40.0		97	90-110			
<b>General Parameters, Batch B6L0852</b>									
<b>Blank (B6L0852-BLK1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Colour, True	< 5	5 CU							
<b>LCS (B6L0852-BS1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-14				
Colour, True	10	5 CU	10.0		103	85-115			
<b>Duplicate (B6L0852-DUP1)</b>					Source: 6120835-01 Prepared: 2016-12-14, Analyzed: 2016-12-14				
Colour, True	6	5 CU	6					5	
<b>General Parameters, Batch B6L0906</b>									
<b>Blank (B6L0906-BLK1)</b>					Prepared: 2016-12-15, Analyzed: 2016-12-15				
Chromium, Hexavalent	< 0.001	0.001 mg/L							



**APPENDIX 1: QUALITY CONTROL DATA**

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SIRM 460 Stebbings

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**General Parameters, Batch B6L0906, Continued**

<b>LCS (B6L0906-BS1)</b>			Prepared: 2016-12-15, Analyzed: 2016-12-15						
Chromium, Hexavalent	0.100	0.001 mg/L	0.100		100	90-111			
<b>Matrix Spike (B6L0906-MS1)</b>			Source: 6120835-02 Prepared: 2016-12-15, Analyzed: 2016-12-15						
Chromium, Hexavalent	0.092	0.001 mg/L	0.100	< 0.001	92	70-116			

**General Parameters, Batch B6L0976**

<b>Blank (B6L0976-BLK1)</b>			Prepared: 2016-12-16, Analyzed: 2016-12-16						
Solids, Total Suspended	< 1	2 mg/L							
<b>LCS (B6L0976-BS1)</b>			Prepared: 2016-12-16, Analyzed: 2016-12-16						
Solids, Total Suspended	50	2 mg/L	50.0		100	85-110			

**General Parameters, Batch B6L1042**

<b>Blank (B6L1042-BLK1)</b>			Prepared: 2016-12-16, Analyzed: 2016-12-16						
Solids, Total Dissolved	< 10	10 mg/L							
<b>Reference (B6L1042-SRM1)</b>			Prepared: 2016-12-16, Analyzed: 2016-12-16						
Solids, Total Dissolved	239	10 mg/L	240		100	85-115			

**Glycols, Batch B6L0908**

<b>Blank (B6L0908-BLK1)</b>			Prepared: 2016-12-15, Analyzed: 2016-12-15						
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	85.3	mg/L	95.6		89	66-125			
<b>LCS (B6L0908-BS1)</b>			Prepared: 2016-12-15, Analyzed: 2016-12-15						
Propylene glycol	41	5 mg/L	50.0		83	71-114			
Ethylene glycol	46	5 mg/L	49.9		92	82-124			
Diethylene glycol	43	5 mg/L	50.0		85	80-116			
Triethylene glycol	41	5 mg/L	49.8		81	73-120			
Surrogate: Tetramethylene Glycol	81.8	mg/L	95.6		86	66-125			
<b>LCS Dup (B6L0908-BSD1)</b>			Prepared: 2016-12-15, Analyzed: 2016-12-15						
Propylene glycol	42	5 mg/L	50.0		84	71-114	1	20	
Ethylene glycol	46	5 mg/L	49.9		92	82-124	< 1	20	
Diethylene glycol	44	5 mg/L	50.0		88	80-116	4	20	
Triethylene glycol	44	5 mg/L	49.8		88	73-120	8	20	
Surrogate: Tetramethylene Glycol	82.2	mg/L	95.6		86	66-125			

**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6L0827**

<b>Blank (B6L0827-BLK1)</b>			Prepared: 2016-12-14, Analyzed: 2016-12-15						
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 (g,h,i) perylene	< 0.05	0.05 µg/L							

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B6L0827, Continued</b>									
<b>Blank (B6L0827-BLK1), Continued</b>					Prepared: 2016-12-14, Analyzed: 2016-12-15				
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	2.44	µg/L	4.44		55	60-130			S02
Surrogate: Naphthalene-d8	5.66	µg/L	4.44		127	60-130			
Surrogate: Perylene-d12	4.92	µg/L	4.44		111	60-130			
<b>LCS (B6L0827-BS1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-15				
Acenaphthene	4.41	0.05 µg/L	4.44		99	70-130			
Acenaphthylene	4.42	0.20 µg/L	4.44		100	70-130			
Acridine	3.28	0.05 µg/L	4.44		74	60-130			
Anthracene	4.20	0.01 µg/L	4.44		94	70-130			
Benz (a) anthracene	4.86	0.01 µg/L	4.44		109	70-130			
Benzo (a) pyrene	4.32	0.01 µg/L	4.44		97	70-130			
Benzo (b) fluoranthene	4.17	0.05 µg/L	4.44		94	70-130			
Benzo (g,h,i) perylene	3.93	0.05 µg/L	4.44		88	70-130			
Benzo (k) fluoranthene	4.17	0.05 µg/L	4.44		94	70-130			
Chrysene	4.98	0.05 µg/L	4.44		112	70-130			
Dibenz (a,h) anthracene	3.61	0.05 µg/L	4.44		81	70-130			
Fluoranthene	5.17	0.03 µg/L	4.44		116	70-130			
Fluorene	3.98	0.05 µg/L	4.44		89	70-130			
Indeno (1,2,3-cd) pyrene	4.20	0.05 µg/L	4.44		95	70-130			
Naphthalene	5.08	0.20 µg/L	4.44		114	70-130			
Phenanthrene	4.10	0.10 µg/L	4.44		92	70-130			
Pyrene	5.49	0.02 µg/L	4.44		123	70-130			
Quinoline	4.76	0.05 µg/L	4.44		107	70-130			
Surrogate: Acridine-d9	2.53	µg/L	4.44		57	60-130			S02
Surrogate: Naphthalene-d8	5.03	µg/L	4.44		113	60-130			
Surrogate: Perylene-d12	4.66	µg/L	4.44		105	60-130			
<b>LCS Dup (B6L0827-BSD1)</b>					Prepared: 2016-12-14, Analyzed: 2016-12-15				
Acenaphthene	4.27	0.05 µg/L	4.44		96	70-130	3	20	
Acenaphthylene	4.27	0.20 µg/L	4.44		96	70-130	4	20	
Acridine	3.34	0.05 µg/L	4.44		75	60-130	2	20	
Anthracene	4.18	0.01 µg/L	4.44		94	70-130	< 1	20	
Benz (a) anthracene	4.64	0.01 µg/L	4.44		104	70-130	5	20	
Benzo (a) pyrene	4.17	0.01 µg/L	4.44		94	70-130	4	20	
Benzo (b) fluoranthene	4.01	0.05 µg/L	4.44		90	70-130	4	20	
Benzo (g,h,i) perylene	3.86	0.05 µg/L	4.44		87	70-130	2	20	
Benzo (k) fluoranthene	4.01	0.05 µg/L	4.44		90	70-130	4	20	
Chrysene	4.71	0.05 µg/L	4.44		106	70-130	6	20	
Dibenz (a,h) anthracene	4.09	0.05 µg/L	4.44		92	70-130	13	20	
Fluoranthene	3.80	0.03 µg/L	4.44		86	70-130	31	20	RPD
Fluorene	3.85	0.05 µg/L	4.44		87	70-130	3	20	
Indeno (1,2,3-cd) pyrene	4.09	0.05 µg/L	4.44		92	70-130	3	20	
Naphthalene	5.21	0.20 µg/L	4.44		117	70-130	2	20	
Phenanthrene	3.85	0.10 µg/L	4.44		87	70-130	6	20	
Pyrene	3.88	0.02 µg/L	4.44		87	70-130	34	20	RPD
Quinoline	4.70	0.05 µg/L	4.44		106	70-130	1	20	

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6L0827, Continued**

LCS Dup (B6L0827-BSD1), Continued			Prepared: 2016-12-14, Analyzed: 2016-12-15						
Surrogate: Acridine-d9	2.54	µg/L	4.44		57	60-130			S02
Surrogate: Naphthalene-d8	5.20	µg/L	4.44		117	60-130			
Surrogate: Perylene-d12	4.55	µg/L	4.44		102	60-130			

**Total Metals, Batch B6L0834**

Blank (B6L0834-BLK1)			Prepared: 2016-12-14, Analyzed: 2016-12-14						
Mercury, total	< 0.00002	0.00002 mg/L							
Reference (B6L0834-SRM1)			Prepared: 2016-12-14, Analyzed: 2016-12-14						
Mercury, total	0.00485	0.00002 mg/L	0.00489		99	50-150			

**Total Metals, Batch B6L0890**

Blank (B6L0890-BLK1)			Prepared: 2016-12-15, Analyzed: 2016-12-15						
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 (B6L0890-DUP1)			Source: 6120835-01		Prepared: 2016-12-15, Analyzed: 2016-12-15				
Aluminum, total	0.897	0.005 mg/L		0.901		< 1			29
Antimony, total	0.0001	0.0001 mg/L		0.0001					31
Arsenic, total	< 0.0005	0.0005 mg/L		< 0.0005					15

**APPENDIX 1: QUALITY CONTROL DATA**

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SIRM 460 Stebbings

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B6L0890, Continued</b>									
<b>Duplicate (B6L0890-DUP1), Continued</b>		<b>Source: 6120835-01</b>		<b>Prepared: 2016-12-15, Analyzed: 2016-12-15</b>					
Barium, total	0.009	0.005 mg/L		0.009					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	0.021	0.004 mg/L		0.017			18		29
Cadmium, total	< 0.00001	0.00001 mg/L		0.00001					33
Calcium, total	22.5	0.2 mg/L		22.4			< 1		12
Chromium, total	0.0021	0.0005 mg/L		0.0021					12
Cobalt, total	0.00049	0.00005 mg/L		0.00050			2		13
Copper, total	0.0031	0.0002 mg/L		0.0030			2		37
Iron, total	0.93	0.01 mg/L		0.89			5		18
Lead, total	0.0007	0.0001 mg/L		0.0007			< 1		23
Lithium, total	0.0007	0.0001 mg/L		0.0006			9		19
Magnesium, total	3.76	0.01 mg/L		3.76			< 1		10
Manganese, total	0.0151	0.0002 mg/L		0.0150			1		13
Molybdenum, total	0.0005	0.0001 mg/L		0.0004			6		20
Nickel, total	0.0018	0.0002 mg/L		0.0019			7		28
Phosphorus, total	0.02	0.02 mg/L		0.02					24
Potassium, total	0.80	0.02 mg/L		0.80			< 1		13
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005					24
Silicon, total	3.3	0.5 mg/L		3.3			< 1		11
Silver, total	< 0.00005	0.00005 mg/L		< 0.00005					18
Sodium, total	11.7	0.02 mg/L		11.7			< 1		10
Strontium, total	0.072	0.001 mg/L		0.073			< 1		9
Sulfur, total	14	1 mg/L		14			4		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	0.043	0.005 mg/L		0.039			11		32
Uranium, total	0.00019	0.00002 mg/L		0.00020			2		14
Vanadium, total	0.003	0.001 mg/L		0.003					17
Zinc, total	0.004	0.004 mg/L		0.005					8
Zirconium, total	0.0004	0.0001 mg/L		0.0004					60
<b>Matrix Spike (B6L0890-MS1)</b>		<b>Source: 6120835-02</b>		<b>Prepared: 2016-12-15, Analyzed: 2016-12-15</b>					
Antimony, total	0.398	0.0001 mg/L	0.400	0.0001	99		84-125		
Arsenic, total	0.221	0.0005 mg/L	0.200	< 0.0005	110		85-116		
Barium, total	1.04	0.005 mg/L	1.00	0.006	103		87-114		
Beryllium, total	0.101	0.0001 mg/L	0.100	< 0.0001	101		72-116		
Cadmium, total	0.106	0.00001 mg/L	0.100	< 0.00001	106		90-112		
Chromium, total	0.440	0.0005 mg/L	0.400	0.0005	110		89-120		
Cobalt, total	0.442	0.00005 mg/L	0.400	0.00021	111		88-120		
Copper, total	0.456	0.0002 mg/L	0.400	0.0018	114		88-125		
Iron, total	2.41	0.01 mg/L	2.00	0.19	111		88-119		
Lead, total	0.206	0.0001 mg/L	0.200	0.0003	103		89-118		
Manganese, total	0.440	0.0002 mg/L	0.400	0.0068	108		84-120		
Nickel, total	0.443	0.0002 mg/L	0.400	0.0008	111		87-119		
Selenium, total	0.109	0.0005 mg/L	0.100	< 0.0005	109		85-113		
Silver, total	0.117	0.00005 mg/L	0.100	< 0.00005	117		89-119		
Thallium, total	0.103	0.00002 mg/L	0.100	< 0.00002	103		92-119		
Vanadium, total	0.418	0.001 mg/L	0.400	0.001	104		87-117		
Zinc, total	1.11	0.004 mg/L	1.00	< 0.004	111		85-116		
<b>Reference (B6L0890-SRM1)</b>		<b>Prepared: 2016-12-15, Analyzed: 2016-12-15</b>							
Aluminum, total	0.321	0.005 mg/L	0.303		106		81-129		
Antimony, total	0.0506	0.0001 mg/L	0.0511		99		88-114		
Arsenic, total	0.129	0.0005 mg/L	0.118		109		88-114		

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SIRM 460 Stebbings

**WORK ORDER REPORTED** 6120835  
2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B6L0890, Continued</b>									
<b>Reference (B6L0890-SRM1), Continued</b>					Prepared: 2016-12-15, Analyzed: 2016-12-15				
Barium, total	0.838	0.005 mg/L	0.823		102	72-104			
Beryllium, total	0.0518	0.0001 mg/L	0.0496		104	76-131			
Boron, total	3.53	0.004 mg/L	3.45		102	75-121			
Cadmium, total	0.0534	0.00001 mg/L	0.0495		108	89-111			
Calcium, total	11.7	0.2 mg/L	11.6		101	86-121			
Chromium, total	0.270	0.0005 mg/L	0.250		108	89-114			
Cobalt, total	0.0417	0.00005 mg/L	0.0377		111	91-113			
Copper, total	0.560	0.0002 mg/L	0.486		115	91-115			
Iron, total	0.54	0.01 mg/L	0.488		112	77-124			
Lead, total	0.210	0.0001 mg/L	0.204		103	92-113			
Lithium, total	0.400	0.0001 mg/L	0.403		99	85-115			
Magnesium, total	4.20	0.01 mg/L	3.79		111	78-120			
Manganese, total	0.116	0.0002 mg/L	0.109		107	90-114			
Molybdenum, total	0.194	0.0001 mg/L	0.198		98	90-111			
Nickel, total	0.277	0.0002 mg/L	0.249		111	90-111			
Phosphorus, total	0.22	0.02 mg/L	0.227		98	85-115			
Potassium, total	7.89	0.02 mg/L	7.21		109	84-113			
Selenium, total	0.136	0.0005 mg/L	0.121		113	85-115			
Sodium, total	8.44	0.02 mg/L	7.54		112	82-123			
Strontium, total	0.392	0.001 mg/L	0.375		104	88-112			
Thallium, total	0.0848	0.00002 mg/L	0.0805		105	91-114			
Uranium, total	0.0308	0.00002 mg/L	0.0306		101	85-120			
Vanadium, total	0.407	0.001 mg/L	0.386		105	86-111			
Zinc, total	2.73	0.004 mg/L	2.49		110	85-111			

**Volatile Organic Compounds (VOC), Batch B6L0932**

<b>Blank (B6L0932-BLK1)</b>			Prepared: 2016-12-15, Analyzed: 2016-12-15						
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							

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SIRM 460 Stebbings

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2016-12-20

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Blank (B6L0932-BLK1), Continued</b>									
					Prepared: 2016-12-15, Analyzed: 2016-12-15				
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	31.7	µg/L	25.0		127	70-130			
Surrogate: 4-Bromofluorobenzene	31.3	µg/L	25.0		125	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	30.0	µg/L	25.0		120	70-130			
<b>LCS (B6L0932-BS1)</b>									
					Prepared: 2016-12-15, Analyzed: 2016-12-15				
Benzene	17.4	0.5 µg/L	20.0		87	70-130			
Bromodichloromethane	15.2	1.0 µg/L	20.0		76	70-130			
Bromoform	12.7	1.0 µg/L	20.0		64	70-130			SPK
Bromomethane	16.5	2.0 µg/L	20.0		82	70-130			
Carbon tetrachloride	15.4	0.5 µg/L	20.0		77	70-130			
Chlorobenzene	15.6	1.0 µg/L	20.0		78	70-130			
Chloroethane	13.8	2.0 µg/L	20.0		69	70-130			SPK
Chloroform	16.2	1.0 µg/L	20.0		81	70-130			
Chloromethane	19.2	2.0 µg/L	20.0		96	70-130			
Dibromochloromethane	13.7	1.0 µg/L	20.0		69	70-130			SPK
1,2-Dibromoethane	14.7	0.2 µg/L	20.0		74	70-130			
Dibromomethane	14.6	1.0 µg/L	20.0		73	70-130			
1,2-Dichlorobenzene	16.1	0.5 µg/L	20.0		80	70-130			
1,3-Dichlorobenzene	15.7	1.0 µg/L	20.0		78	70-130			
1,4-Dichlorobenzene	15.2	1.0 µg/L	20.0		76	70-130			
1,1-Dichloroethane	15.7	1.0 µg/L	20.0		78	70-130			
1,2-Dichloroethane	16.2	1.0 µg/L	20.0		81	70-130			
1,1-Dichloroethene	15.2	1.0 µg/L	20.0		76	70-130			
cis-1,2-Dichloroethene	15.8	1.0 µg/L	20.0		79	70-130			
trans-1,2-Dichloroethene	15.3	1.0 µg/L	20.0		76	70-130			
1,2-Dichloropropane	16.8	1.0 µg/L	20.0		84	70-130			
cis-1,3-Dichloropropene	14.5	1.0 µg/L	20.0		73	70-130			
trans-1,3-Dichloropropene	13.6	1.0 µg/L	20.0		68	70-130			SPK
Ethylbenzene	16.3	1.0 µg/L	20.0		82	70-130			
Methyl tert-butyl ether	20.8	1.0 µg/L	20.0		104	70-130			
Methylene chloride	15.3	3.0 µg/L	20.0		76	70-130			
Styrene	16.1	1.0 µg/L	20.0		80	70-130			
1,1,1,2-Tetrachloroethane	13.9	1.0 µg/L	20.0		69	70-130			SPK
1,1,2,2-Tetrachloroethane	15.6	0.5 µg/L	20.0		78	70-130			
Tetrachloroethene	14.8	1.0 µg/L	20.0		74	70-130			
Toluene	16.3	1.0 µg/L	20.0		81	70-130			
1,1,1-Trichloroethane	15.8	1.0 µg/L	20.0		79	70-130			
1,1,2-Trichloroethane	15.6	1.0 µg/L	20.0		78	70-130			
Trichloroethene	15.5	1.0 µg/L	20.0		78	70-130			
Trichlorofluoromethane	17.2	1.0 µg/L	20.0		86	70-130			
Vinyl chloride	16.5	1.0 µg/L	20.0		83	70-130			
Xylenes (total)	49.5	2.0 µg/L	60.0		82	70-130			
Surrogate: Toluene-d8	36.7	µg/L	25.0		147	70-130			S09
Surrogate: 4-Bromofluorobenzene	34.7	µg/L	25.0		139	70-130			S09
Surrogate: 1,4-Dichlorobenzene-d4	37.2	µg/L	25.0		149	70-130			S09

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**REPORTED** 2016-12-20

**QC Qualifiers:**

RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).  
S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.  
S09 The surrogate recovery for this sample is outside of established control limits .  
SPK The recovery of this analyte was outside of established control limits.

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

		6120835-01	6120835-02
		Water	Water
		2016-12-11	2016-12-11
		1-Weir	2-SW1
Anions	Chloride (mg/L)	18.4	16.1
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.228	0.411
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	39.8	48.0
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	26	42
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	26	42
	Alkalinity, Carbonate (as CaCO3) (mg/L)	< 1	< 1
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	< 1	< 1
	Chromium, Hexavalent (mg/L)	< 0.001	< 0.001
	Colour, True (CU)	6	< 5
	Conductivity (EC) (uS/cm)	204	243
	pH (pH units)	7.23	7.37
	Solids, Total Dissolved (mg/L)	115	146
	Solids, Total Suspended (mg/L)	9	3
	Turbidity (NTU)	18.1	7.60
Calculated Parameters	Chromium, Trivalent (mg/L)	0.002	< 0.001
	Hardness, Total (as CaCO3) (mg/L)	62.9	86.9
Dissolved Metals	Aluminum, dissolved (mg/L)	0.007	< 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)	0.015	0.015
	Cadmium, dissolved (mg/L)	< 0.00001	< 0.00001
	Calcium, dissolved (mg/L)	19.8	27.2
	Chromium, dissolved (mg/L)	< 0.0005	0.0006
	Cobalt, dissolved (mg/L)	0.00007	0.00006
	Copper, dissolved (mg/L)	0.0008	0.0009
	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)	3.29	4.62
	Manganese, dissolved (mg/L)	0.0016	0.0020
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0005	0.0006
	Nickel, dissolved (mg/L)	0.0005	0.0004
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	0.66	0.66
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	1.7	2.8
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005



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

**WORK ORDER REPORTED** 6120835  
2016-12-20

		6120835-01	6120835-02
		Water	Water
		2016-12-11	2016-12-11
		1-Weir	2-SW1
Dissolved Metals	Sodium, dissolved (mg/L)	11.3	9.71
	Strontium, dissolved (mg/L)	0.070	0.087
	Sulfur, dissolved (mg/L)	13	15
	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)	0.00014	0.00023
	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)	0.901
Antimony, total (mg/L)		0.0001	0.0001
Arsenic, total (mg/L)		< 0.0005	< 0.0005
Barium, total (mg/L)		0.009	0.006
Beryllium, total (mg/L)		< 0.0001	< 0.0001
Bismuth, total (mg/L)		< 0.0001	< 0.0001
Boron, total (mg/L)		0.017	0.017
Cadmium, total (mg/L)		0.00001	< 0.00001
Calcium, total (mg/L)		22.4	30.3
Chromium, total (mg/L)		0.0021	< 0.0005
Cobalt, total (mg/L)		0.00050	0.00021
Copper, total (mg/L)		0.0030	0.0018
Iron, total (mg/L)		0.89	0.19
Lead, total (mg/L)		0.0007	0.0003
Lithium, total (mg/L)		0.0006	0.0003
Magnesium, total (mg/L)		3.76	4.85
Manganese, total (mg/L)		0.0150	0.0068
Mercury, total (mg/L)		< 0.00002	< 0.00002
Molybdenum, total (mg/L)		0.0004	0.0006
Nickel, total (mg/L)		0.0019	0.0008
Phosphorus, total (mg/L)		< 0.02	< 0.02
Potassium, total (mg/L)		0.80	0.70
Selenium, total (mg/L)		< 0.0005	< 0.0005
Silicon, total (mg/L)		3.3	3.0
Silver, total (mg/L)		< 0.00005	< 0.00005
Sodium, total (mg/L)		11.7	9.95
Strontium, total (mg/L)		0.073	0.086
Sulfur, total (mg/L)		14	15
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)		0.039	0.006

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

		6120835-01	6120835-02
		Water	Water
		2016-12-11	2016-12-11
		1-Weir	2-SW1
Total Metals	Uranium, total (mg/L)	0.00020	0.00027
	Vanadium, total (mg/L)	0.003	0.001
	Zinc, total (mg/L)	0.005	< 0.004
	Zirconium, total (mg/L)	0.0004	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 (%)	93	90
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 (%)	84	88
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 (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 (%)	64	63
	Sur: Naphthalene-d8 (%)	82	86
Sur: Perylene-d12 (%)	101	100	
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

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

**WORK ORDER REPORTED** 6120835  
2016-12-20

		6120835-01	6120835-02
		Water	Water
		2016-12-11	2016-12-11
		1-Weir	2-SW1
Volatile Organic Compounds (VOC)	1,2-Dibromoethane (ug/L)	< 0.2	< 0.2
	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 (%)	102	102
	Sur: 4-Bromofluorobenzene (%)	99	100
	Sur: 1,4-Dichlorobenzene-d4 (%)	88	89

<b>Client Information</b> Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	<b>Project Information</b> SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5	<b>Laboratory Information</b> CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	<b>COC Information</b> Number: 20161211 Shipped via: Other
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#1	1-Weir (Template: 01) 12/11/2016 12:15 Grab / Water	<p style="text-align: center;"><b>Analyses</b></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 Comments: Chromium Speciation Required 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;"><b>Containers</b></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) C09_125 mL Plastic (CN/Cr6) (1)
#2	2-SW1 (Template: 01) 12/11/2016 12:30 Grab / Water	<p style="text-align: center;"><b>Analyses</b></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 Comments: Chromium Speciation Required 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;"><b>Containers</b></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) C09_125 mL Plastic (CN/Cr6) (1)

Relinquished by	Date/Time	Accepted by	Date/Time