

**REPORTED TO** Allterra Construction  
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**WORK ORDER** 6101054

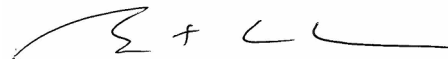
**PO NUMBER** P15-06 SIRM  
**PROJECT** SIRM 460 Stebbings  
**PROJECT INFO**

**RECEIVED / TEMP** 2016-10-17 15:20 / 9°C  
**REPORTED** 2016-10-18  
**COC NUMBER** B33065

**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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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	Richmond
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Glycols in Water	EPA 8015B*	Gas Chromatography (GC-FID)	Richmond
Hardness (as 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	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved (Calc) in Water	APHA 1030 E	Calculation: 100 x ([Cations]-[Anions]) / ([Cations]+[Anions])	N/A
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Richmond
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Richmond
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260B	Purge&Trap / GC-MS (SIM)	Richmond

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

**Method Reference Descriptions:**

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

**Glossary of Terms:**

MRL Method Reporting Limit  
 < Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences  
 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: WEIR (6101054-01) [Water] Sampled: 2016-10-16 07:45**

**Anions**

Chloride	68.1	± 3.1	0.10	mg/L	N/A	2016-10-18	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-10-18	
Nitrate (as N)	0.943	± 0.118	0.010	mg/L	N/A	2016-10-18	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-10-18	
Sulfate	167	± 20	1.0	mg/L	N/A	2016-10-18	

**General Parameters**

Alkalinity, Total (as CaCO3)	33	± 2	1	mg/L	N/A	2016-10-18	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Alkalinity, Bicarbonate (as CaCO3)	33	± 2	1	mg/L	N/A	2016-10-18	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Colour, True	< 5		5	CU	N/A	2016-10-18	
Conductivity (EC)	645	± 45	2	µS/cm	N/A	2016-10-17	
pH	7.14	± 0.03	0.01	pH units	N/A	2016-10-17	HT2
Solids, Total Suspended	7	± 2	2	mg/L	N/A	2016-10-18	
Turbidity	15.4	± 1.9	0.10	NTU	N/A	2016-10-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	239		0.50	mg/L	N/A	N/A	
Solids, Total Dissolved	383		10	mg/L	N/A	2016-10-18	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-18	
Antimony, dissolved	0.0004	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-18	
Barium, dissolved	0.017	± 0.002	0.005	mg/L	N/A	2016-10-18	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Boron, dissolved	0.037	± 0.007	0.004	mg/L	N/A	2016-10-18	
Cadmium, dissolved	0.00002	± 0.00001	0.00001	mg/L	N/A	2016-10-18	
Calcium, dissolved	76.0	± 11.7	0.2	mg/L	N/A	2016-10-18	
Chromium, dissolved	0.0009	± 0.0002	0.0005	mg/L	N/A	2016-10-18	
Cobalt, dissolved	0.00011	± 0.00001	0.00005	mg/L	N/A	2016-10-18	
Copper, dissolved	0.0010	± 0.0004	0.0002	mg/L	N/A	2016-10-18	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-18	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Magnesium, dissolved	12.0	± 1.9	0.01	mg/L	N/A	2016-10-18	
Manganese, dissolved	0.0134	± 0.0015	0.0002	mg/L	N/A	2016-10-18	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	
Molybdenum, dissolved	0.0010	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Nickel, dissolved	0.0018	± 0.0003	0.0002	mg/L	N/A	2016-10-18	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-18	
Potassium, dissolved	1.71	± 0.24	0.02	mg/L	N/A	2016-10-18	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-18	

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**Sample ID: WEIR (6101054-01) [Water] Sampled: 2016-10-16 07:45, Continued**

***Dissolved Metals, Continued***

Silicon, dissolved	3.3	± 1.5	0.5	mg/L	N/A	2016-10-18	
Silver, dissolved	0.00013	± 0.00003	0.00005	mg/L	N/A	2016-10-18	
Sodium, dissolved	34.1	± 5.2	0.02	mg/L	N/A	2016-10-18	
Strontium, dissolved	0.266	± 0.027	0.001	mg/L	N/A	2016-10-18	
Sulfur, dissolved	54	± 1160	1	mg/L	N/A	2016-10-18	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-18	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-18	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-18	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-18	
Uranium, dissolved	0.00022	± 0.00003	0.00002	mg/L	N/A	2016-10-18	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-18	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-18	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	

***Total Metals***

Aluminum, total	0.462	± 0.085	0.005	mg/L	2016-10-17	2016-10-18	
Antimony, total	0.0005	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-17	2016-10-18	
Barium, total	0.020	± 0.003	0.005	mg/L	2016-10-17	2016-10-18	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Boron, total	0.037	± 0.007	0.004	mg/L	2016-10-17	2016-10-18	
Cadmium, total	0.00001	± 0.00002	0.00001	mg/L	2016-10-17	2016-10-18	
Calcium, total	76.6	± 9.3	0.2	mg/L	2016-10-17	2016-10-18	
Chromium, total	0.0010	± 0.0003	0.0005	mg/L	2016-10-17	2016-10-18	
Cobalt, total	0.00037	± 0.00004	0.00005	mg/L	2016-10-17	2016-10-18	
Copper, total	0.0022	± 0.0003	0.0002	mg/L	2016-10-17	2016-10-18	
Iron, total	0.54	± 0.11	0.01	mg/L	2016-10-17	2016-10-18	
Lead, total	0.0003	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Lithium, total	0.0005	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Magnesium, total	12.3	± 1.9	0.01	mg/L	2016-10-17	2016-10-18	
Manganese, total	0.0212	± 0.0019	0.0002	mg/L	2016-10-17	2016-10-18	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	
Molybdenum, total	0.0009	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Nickel, total	0.0025	± 0.0003	0.0002	mg/L	2016-10-17	2016-10-18	
Phosphorus, total	0.03	± 1.61	0.02	mg/L	2016-10-17	2016-10-18	
Potassium, total	1.78	± 0.20	0.02	mg/L	2016-10-17	2016-10-18	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-17	2016-10-18	
Silicon, total	4.1	± 1.5	0.5	mg/L	2016-10-17	2016-10-18	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-17	2016-10-18	
Sodium, total	33.4	± 4.9	0.02	mg/L	2016-10-17	2016-10-18	
Strontium, total	0.268	± 0.025	0.001	mg/L	2016-10-17	2016-10-18	
Sulfur, total	53	± 823	1	mg/L	2016-10-17	2016-10-18	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-17	2016-10-18	
Thallium, total	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	

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**Sample ID: WEIR (6101054-01) [Water] Sampled: 2016-10-16 07:45, Continued**

**Total Metals, Continued**

Thorium, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-17	2016-10-18	
Titanium, total	<b>0.025</b>	± 0.003	0.005	mg/L	2016-10-17	2016-10-18	
Uranium, total	<b>0.00023</b>	± 0.00001	0.00002	mg/L	2016-10-17	2016-10-18	
Vanadium, total	<b>0.002</b>		0.001	mg/L	2016-10-17	2016-10-18	
Zinc, total	< 0.004		0.004	mg/L	2016-10-17	2016-10-18	
Zirconium, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-17	2016-10-18	
EPHw19-32	< 250		250	µg/L	2016-10-17	2016-10-18	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	89		60-140	%	2016-10-17	2016-10-18	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
<i>Surrogate: Tetramethylene Glycol</i>	96		66-125	%	N/A	2016-10-18	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-17	2016-10-18	
Acridine	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
Anthracene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Chrysene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-17	2016-10-18	
Fluorene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Naphthalene	< 0.20		0.20	µg/L	2016-10-17	2016-10-18	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
Pyrene	< 0.02		0.02	µg/L	2016-10-17	2016-10-18	
Quinoline	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
<i>Surrogate: Acridine-d9</i>	73		60-130	%	2016-10-17	2016-10-18	
<i>Surrogate: Naphthalene-d8</i>	96		60-130	%	2016-10-17	2016-10-18	
<i>Surrogate: Perylene-d12</i>	110		60-130	%	2016-10-17	2016-10-18	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-18	
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**Sample ID: WEIR (6101054-01) [Water] Sampled: 2016-10-16 07:45, Continued**

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

Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-18	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-18	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-18	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-18	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-18	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-18	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-18	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-18	
Xylenes (total)	<b>2.1 ± 1.0</b>		2.0	µg/L	N/A	2016-10-18	
Surrogate: Toluene-d8	102		70-130	%	N/A	2016-10-18	
Surrogate: 4-Bromofluorobenzene	101		70-130	%	N/A	2016-10-18	
Surrogate: 1,4-Dichlorobenzene-d4	109		70-130	%	N/A	2016-10-18	

**Sample ID: SW-1 (6101054-02) [Water] Sampled: 2016-10-16 08:00**

**Anions**

Chloride	<b>59.1 ± 2.7</b>		0.10	mg/L	N/A	2016-10-18	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-10-18	

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Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: SW-1 (6101054-02) [Water] Sampled: 2016-10-16 08:00, Continued**

**Anions, Continued**

Nitrate (as N)	1.07	± 0.13	0.010	mg/L	N/A	2016-10-18	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-10-18	
Sulfate	167	± 20	1.0	mg/L	N/A	2016-10-18	

**General Parameters**

Alkalinity, Total (as CaCO3)	43	± 3	1	mg/L	N/A	2016-10-18	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Alkalinity, Bicarbonate (as CaCO3)	43	± 2	1	mg/L	N/A	2016-10-18	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-10-18	
Colour, True	< 5		5	CU	N/A	2016-10-18	
Conductivity (EC)	631	± 44	2	µS/cm	N/A	2016-10-17	
pH	7.17	± 0.03	0.01	pH units	N/A	2016-10-17	HT2
Solids, Total Suspended	< 2		2	mg/L	N/A	2016-10-18	
Turbidity	3.39	± 0.43	0.10	NTU	N/A	2016-10-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	243		0.50	mg/L	N/A	N/A	
Solids, Total Dissolved	378		10	mg/L	N/A	2016-10-18	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-18	
Antimony, dissolved	0.0004	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-18	
Barium, dissolved	0.021	± 0.003	0.005	mg/L	N/A	2016-10-18	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Boron, dissolved	0.038	± 0.007	0.004	mg/L	N/A	2016-10-18	
Cadmium, dissolved	0.00001	± 0.00001	0.00001	mg/L	N/A	2016-10-18	
Calcium, dissolved	76.7	± 11.8	0.2	mg/L	N/A	2016-10-18	
Chromium, dissolved	0.0007	± 0.0002	0.0005	mg/L	N/A	2016-10-18	
Cobalt, dissolved	0.00018	± 0.00002	0.00005	mg/L	N/A	2016-10-18	
Copper, dissolved	0.0014	± 0.0004	0.0002	mg/L	N/A	2016-10-18	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-18	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Magnesium, dissolved	12.6	± 2.0	0.01	mg/L	N/A	2016-10-18	
Manganese, dissolved	0.0193	± 0.0022	0.0002	mg/L	N/A	2016-10-18	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	
Molybdenum, dissolved	0.0015	± 0.0001	0.0001	mg/L	N/A	2016-10-18	
Nickel, dissolved	0.0016	± 0.0003	0.0002	mg/L	N/A	2016-10-18	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-18	
Potassium, dissolved	1.86	± 0.26	0.02	mg/L	N/A	2016-10-18	
Selenium, dissolved	0.0005	± 0.0001	0.0005	mg/L	N/A	2016-10-18	
Silicon, dissolved	4.0	± 1.8	0.5	mg/L	N/A	2016-10-18	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-18	



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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: SW-1 (6101054-02) [Water] Sampled: 2016-10-16 08:00, Continued**

***Dissolved Metals, Continued***

Sodium, dissolved	29.7	± 4.5	0.02	mg/L	N/A	2016-10-18	
Strontium, dissolved	0.258	± 0.026	0.001	mg/L	N/A	2016-10-18	
Sulfur, dissolved	53	± 1150	1	mg/L	N/A	2016-10-18	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-18	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-18	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-18	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-18	
Uranium, dissolved	0.00042	± 0.00005	0.00002	mg/L	N/A	2016-10-18	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-18	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-18	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-18	

***Total Metals***

Aluminum, total	0.101	± 0.020	0.005	mg/L	2016-10-17	2016-10-18	
Antimony, total	0.0004	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-17	2016-10-18	
Barium, total	0.022	± 0.003	0.005	mg/L	2016-10-17	2016-10-18	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Boron, total	0.039	± 0.008	0.004	mg/L	2016-10-17	2016-10-18	
Cadmium, total	0.00001	± 0.00002	0.00001	mg/L	2016-10-17	2016-10-18	
Calcium, total	79.2	± 9.6	0.2	mg/L	2016-10-17	2016-10-18	
Chromium, total	< 0.0005		0.0005	mg/L	2016-10-17	2016-10-18	
Cobalt, total	0.00028	± 0.00003	0.00005	mg/L	2016-10-17	2016-10-18	
Copper, total	0.0020	± 0.0003	0.0002	mg/L	2016-10-17	2016-10-18	
Iron, total	0.11	± 0.02	0.01	mg/L	2016-10-17	2016-10-18	
Lead, total	0.0002	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Lithium, total	0.0003		0.0001	mg/L	2016-10-17	2016-10-18	
Magnesium, total	13.2	± 2.0	0.01	mg/L	2016-10-17	2016-10-18	
Manganese, total	0.0240	± 0.0022	0.0002	mg/L	2016-10-17	2016-10-18	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	
Molybdenum, total	0.0015	± 0.0001	0.0001	mg/L	2016-10-17	2016-10-18	
Nickel, total	0.0018	± 0.0002	0.0002	mg/L	2016-10-17	2016-10-18	
Phosphorus, total	< 0.02		0.02	mg/L	2016-10-17	2016-10-18	
Potassium, total	1.93	± 0.22	0.02	mg/L	2016-10-17	2016-10-18	
Selenium, total	0.0005	± 0.0001	0.0005	mg/L	2016-10-17	2016-10-18	
Silicon, total	4.3	± 1.6	0.5	mg/L	2016-10-17	2016-10-18	
Silver, total	< 0.00005		0.00005	mg/L	2016-10-17	2016-10-18	
Sodium, total	31.1	± 4.6	0.02	mg/L	2016-10-17	2016-10-18	
Strontium, total	0.269	± 0.025	0.001	mg/L	2016-10-17	2016-10-18	
Sulfur, total	56	± 873	1	mg/L	2016-10-17	2016-10-18	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-17	2016-10-18	
Thallium, total	< 0.00002		0.00002	mg/L	2016-10-17	2016-10-18	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-17	2016-10-18	

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**Sample ID: SW-1 (6101054-02) [Water] Sampled: 2016-10-16 08:00, Continued**

**Total Metals, Continued**

Titanium, total	0.007	± 0.001	0.005	mg/L	2016-10-17	2016-10-18	
Uranium, total	0.00043	± 0.00003	0.00002	mg/L	2016-10-17	2016-10-18	
Vanadium, total	0.001		0.001	mg/L	2016-10-17	2016-10-18	
Zinc, total	< 0.004		0.004	mg/L	2016-10-17	2016-10-18	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-10-17	2016-10-18	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-10-17	2016-10-18	
EPHw19-32	< 250		250	µg/L	2016-10-17	2016-10-18	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	84		60-140	%	2016-10-17	2016-10-18	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-18	
Surrogate: Tetramethylene Glycol	108		66-125	%	N/A	2016-10-18	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-17	2016-10-18	
Acridine	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
Anthracene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-17	2016-10-18	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Chrysene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-17	2016-10-18	
Fluorene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-17	2016-10-18	
Naphthalene	< 0.20		0.20	µg/L	2016-10-17	2016-10-18	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
Pyrene	< 0.02		0.02	µg/L	2016-10-17	2016-10-18	
Quinoline	< 0.10		0.10	µg/L	2016-10-17	2016-10-18	
Surrogate: Acridine-d9	77		60-130	%	2016-10-17	2016-10-18	
Surrogate: Naphthalene-d8	117		60-130	%	2016-10-17	2016-10-18	
Surrogate: Perylene-d12	116		60-130	%	2016-10-17	2016-10-18	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-18	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-18	

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: SW-1 (6101054-02) [Water] Sampled: 2016-10-16 08:00, Continued**

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

Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-18	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-18	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-18	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-18	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-18	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-18	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-18	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-18	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-18	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-18	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-18	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-18	
Surrogate: Toluene-d8	95		70-130	%	N/A	2016-10-18	
Surrogate: 4-Bromofluorobenzene	95		70-130	%	N/A	2016-10-18	
Surrogate: 1,4-Dichlorobenzene-d4	102		70-130	%	N/A	2016-10-18	

**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
<b>Anions, Batch B6J1023</b>									
<b>Blank (B6J1023-BLK1)</b> Prepared: 2016-10-17, Analyzed: 2016-10-17									
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 (B6J1023-BS1)</b> Prepared: 2016-10-17, Analyzed: 2016-10-17									
Chloride	16.6	0.10 mg/L	16.0		104	90-110			
Fluoride	3.85	0.10 mg/L	4.00		96	88-108			
Nitrate (as N)	4.25	0.010 mg/L	4.00		106	93-108			
Nitrite (as N)	2.02	0.010 mg/L	2.00		101	83-110			
Sulfate	16.1	1.0 mg/L	16.0		101	91-109			
<b>BCMOE Aggregate Hydrocarbons, Batch B6J0941</b>									
<b>Blank (B6J0941-BLK1)</b> Prepared: 2016-10-17, Analyzed: 2016-10-17									
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane	389	µg/L	444		88	60-140			
<b>LCS (B6J0941-BS2)</b> Prepared: 2016-10-17, Analyzed: 2016-10-17									
EPHw10-19	17800	250 µg/L	15500		115	70-130			
EPHw19-32	20500	250 µg/L	22200		92	70-130			
Surrogate: 2-Methylnonane	508	µg/L	444		114	60-140			
<b>Dissolved Metals, Batch B6J1018</b>									
<b>Blank (B6J1018-BLK1)</b> Prepared: 2016-10-17, Analyzed: 2016-10-18									
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Reference (B6J1018-SRM1)</b> Prepared: 2016-10-17, Analyzed: 2016-10-18									
Mercury, dissolved	0.00389	0.00002 mg/L	0.00486		80	50-150			

**APPENDIX 1: QUALITY CONTROL DATA**

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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*Dissolved Metals, Batch B6J1018, Continued*

*Dissolved Metals, Batch B6J1036*

**Blank (B6J1036-BLK1)**

Prepared: 2016-10-18, Analyzed: 2016-10-18

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							
Zirconium, dissolved	< 0.0001	0.0001 mg/L							

**Duplicate (B6J1036-DUP1)**

Source: 6101054-01

Prepared: 2016-10-18, Analyzed: 2016-10-18

Aluminum, dissolved	< 0.005	0.005 mg/L	0.005		11
Antimony, dissolved	0.0005	0.0001 mg/L	0.0004	7	44
Arsenic, dissolved	< 0.0005	0.0005 mg/L	< 0.0005		8
Barium, dissolved	0.018	0.005 mg/L	0.017		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	0.053	0.004 mg/L	0.037	36	13
Cadmium, dissolved	0.00003	0.00001 mg/L	0.00002		27
Calcium, dissolved	78.7	0.2 mg/L	76.0	4	8
Chromium, dissolved	0.0010	0.0005 mg/L	0.0009		14
Cobalt, dissolved	0.00010	0.00005 mg/L	0.00011		10
Copper, dissolved	0.0010	0.0002 mg/L	0.0010	3	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	0.0002		14
Magnesium, dissolved	12.4	0.01 mg/L	12.0	3	6

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6J1036, Continued</b>									
<b>Duplicate (B6J1036-DUP1), Continued</b>		<b>Source: 6101054-01</b>		Prepared: 2016-10-18, Analyzed: 2016-10-18					
Manganese, dissolved	0.0139	0.0002 mg/L		0.0134			4	9	
Molybdenum, dissolved	0.0011	0.0001 mg/L		0.0010			2	19	
Nickel, dissolved	0.0018	0.0002 mg/L		0.0018			2	21	
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02				14	
Potassium, dissolved	1.80	0.02 mg/L		1.71			5	8	
Selenium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005				36	
Silicon, dissolved	3.6	0.5 mg/L		3.3			8	12	
Silver, dissolved	0.00016	0.00005 mg/L		0.00013				20	
Sodium, dissolved	35.3	0.02 mg/L		34.1			4	6	
Strontium, dissolved	0.277	0.001 mg/L		0.266			4	6	
Sulfur, dissolved	60	1 mg/L		54			10	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	0.00023	0.00002 mg/L		0.00022			6	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	
<b>Matrix Spike (B6J1036-MS1)</b>		<b>Source: 6101054-02</b>		Prepared: 2016-10-18, Analyzed: 2016-10-18					
Antimony, dissolved	0.438	0.0001 mg/L	0.400	0.0004	109	76-114			
Arsenic, dissolved	0.212	0.0005 mg/L	0.200	< 0.0005	106	81-115			
Barium, dissolved	1.00	0.005 mg/L	1.00	0.021	98	80-113			
Beryllium, dissolved	0.0864	0.0001 mg/L	0.100	< 0.0001	86	69-109			
Cadmium, dissolved	0.100	0.00001 mg/L	0.100	0.00001	100	83-110			
Chromium, dissolved	0.412	0.0005 mg/L	0.400	0.0007	103	85-115			
Cobalt, dissolved	0.414	0.00005 mg/L	0.400	0.00018	104	86-114			
Copper, dissolved	0.424	0.0002 mg/L	0.400	0.0014	106	82-119			
Iron, dissolved	2.08	0.010 mg/L	2.00	< 0.010	104	80-116			
Lead, dissolved	0.202	0.0001 mg/L	0.200	< 0.0001	101	83-112			
Manganese, dissolved	0.418	0.0002 mg/L	0.400	0.0193	100	62-131			
Nickel, dissolved	0.422	0.0002 mg/L	0.400	0.0016	105	81-115			
Selenium, dissolved	0.113	0.0005 mg/L	0.100	0.0005	112	79-115			
Silver, dissolved	0.103	0.00005 mg/L	0.100	< 0.00005	103	69-121			
Thallium, dissolved	0.101	0.00002 mg/L	0.100	< 0.00002	101	84-115			
Vanadium, dissolved	0.400	0.001 mg/L	0.400	< 0.001	100	83-113			
Zinc, dissolved	0.792	0.004 mg/L	1.00	< 0.004	79	82-115			SPK1
<b>Reference (B6J1036-SRM1)</b>		Prepared: 2016-10-18, Analyzed: 2016-10-18							
Aluminum, dissolved	0.232	0.005 mg/L	0.233		99	58-142			
Antimony, dissolved	0.0487	0.0001 mg/L	0.0430		113	75-125			
Arsenic, dissolved	0.457	0.0005 mg/L	0.438		104	81-119			
Barium, dissolved	3.41	0.005 mg/L	3.35		102	83-117			
Beryllium, dissolved	0.188	0.0001 mg/L	0.213		88	80-120			
Boron, dissolved	1.59	0.004 mg/L	1.74		91	74-117			
Cadmium, dissolved	0.227	0.00001 mg/L	0.224		102	83-117			
Calcium, dissolved	8.0	0.2 mg/L	7.69		104	76-124			
Chromium, dissolved	0.458	0.0005 mg/L	0.437		105	81-119			
Cobalt, dissolved	0.137	0.00005 mg/L	0.128		107	76-124			
Copper, dissolved	0.909	0.0002 mg/L	0.844		108	84-116			
Iron, dissolved	1.36	0.010 mg/L	1.29		105	74-126			
Lead, dissolved	0.114	0.0001 mg/L	0.112		102	72-128			
Lithium, dissolved	0.0846	0.0001 mg/L	0.104		81	60-140			
Magnesium, dissolved	7.11	0.01 mg/L	6.92		103	81-119			
Manganese, dissolved	0.356	0.0002 mg/L	0.345		103	84-116			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6J1036, Continued**

**Reference (B6J1036-SRM1), Continued**

Prepared: 2016-10-18, Analyzed: 2016-10-18

Molybdenum, dissolved	0.483	0.0001 mg/L	0.426		113	83-117			
Nickel, dissolved	0.906	0.0002 mg/L	0.840		108	74-126			
Phosphorus, dissolved	0.48	0.02 mg/L	0.495		97	68-132			
Potassium, dissolved	3.28	0.02 mg/L	3.19		103	74-126			
Selenium, dissolved	0.0361	0.0005 mg/L	0.0331		109	70-130			
Sodium, dissolved	20.0	0.02 mg/L	19.1		105	72-128			
Strontium, dissolved	0.891	0.001 mg/L	0.916		97	84-113			
Thallium, dissolved	0.0395	0.00002 mg/L	0.0393		100	57-143			
Uranium, dissolved	0.264	0.00002 mg/L	0.266		99	85-115			
Vanadium, dissolved	0.900	0.001 mg/L	0.869		104	87-113			
Zinc, dissolved	0.661	0.004 mg/L	0.881		75	72-128			

**General Parameters, Batch B6J0974**

**Blank (B6J0974-BLK1)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	< 2	2 µS/cm							
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**Blank (B6J0974-BLK2)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	< 2	2 µS/cm							
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**LCS (B6J0974-BS1)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	149	2 µS/cm	147		102	88-112			
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**LCS (B6J0974-BS2)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	150	2 µS/cm	147		102	88-112			
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**Duplicate (B6J0974-DUP2)**

Source: 6101054-01

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	645	2 µS/cm	645		< 1	7			
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**Reference (B6J0974-SRM1)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	1000	2 µS/cm	1000		100	90-110			
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**Reference (B6J0974-SRM2)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Conductivity (EC)	998	2 µS/cm	1000		100	90-110			
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**General Parameters, Batch B6J0978**

**Blank (B6J0978-BLK1)**

Prepared: 2016-10-18, Analyzed: 2016-10-18

Turbidity	< 0.10	0.10 NTU							
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**LCS (B6J0978-BS1)**

Prepared: 2016-10-18, Analyzed: 2016-10-18

Turbidity	9.91	0.10 NTU	10.0		99	82-115			
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**General Parameters, Batch B6J1035**

**Duplicate (B6J1035-DUP1)**

Source: 6101054-01

Prepared: 2016-10-17, Analyzed: 2016-10-17

pH	7.15	0.01 pH units	7.14		< 1	4			
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**Reference (B6J1035-SRM1)**

Prepared: 2016-10-17, Analyzed: 2016-10-17

pH	7.06	0.01 pH units	7.02		101	98-102			
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**General Parameters, Batch B6J1060**

**Blank (B6J1060-BLK1)**

Prepared: 2016-10-18, Analyzed: 2016-10-18

Solids, Total Suspended	< 2	2 mg/L							
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**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B6J1060, Continued</b>									
<b>Blank (B6J1060-BLK2)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Solids, Total Suspended	< 2	2 mg/L							
<b>General Parameters, Batch B6J1073</b>									
<b>Blank (B6J1073-BLK1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Colour, True	< 5	5 CU							
<b>LCS (B6J1073-BS1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Colour, True	10	5 CU	10.0		105	85-115			
<b>General Parameters, Batch B6J1091</b>									
<b>Blank (B6J1091-BLK1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
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							
<b>LCS (B6J1091-BS1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	96-108			
<b>Glycols, Batch B6J1039</b>									
<b>Blank (B6J1039-BLK1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
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	102	mg/L	95.6		106	66-125			
<b>LCS (B6J1039-BS1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Propylene glycol	58	5 mg/L	50.0		115	71-114			SPK1
Ethylene glycol	51	5 mg/L	49.9		102	82-124			
Diethylene glycol	49	5 mg/L	50.0		97	80-116			
Triethylene glycol	42	5 mg/L	49.8		85	73-120			
Surrogate: Tetramethylene Glycol	104	mg/L	95.6		109	66-125			
<b>LCS Dup (B6J1039-BSD1)</b>			Prepared: 2016-10-18, Analyzed: 2016-10-18						
Propylene glycol	55	5 mg/L	50.0		110	71-114	5	20	
Ethylene glycol	48	5 mg/L	49.9		95	82-124	6	20	
Diethylene glycol	49	5 mg/L	50.0		97	80-116	< 1	20	
Triethylene glycol	49	5 mg/L	49.8		99	73-120	15	20	
Surrogate: Tetramethylene Glycol	99.1	mg/L	95.6		104	66-125			
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J0941</b>									
<b>Blank (B6J0941-BLK1)</b>			Prepared: 2016-10-17, Analyzed: 2016-10-17						
Acenaphthene	< 0.05	0.05 µg/L							
Acenaphthylene	< 0.20	0.20 µg/L							
Acridine	< 0.10	0.10 µg/L							
Anthracene	< 0.01	0.01 µg/L							
Benz (a) anthracene	< 0.01	0.01 µg/L							
Benzo (a) pyrene	< 0.01	0.01 µg/L							
Benzo (b) fluoranthene	< 0.05	0.05 µg/L							



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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J0941, Continued</b>									
<b>Blank (B6J0941-BLK1), Continued</b>					Prepared: 2016-10-17, Analyzed: 2016-10-17				
Benzo (g,h,i) perylene	< 0.05	0.05 µg/L							
Benzo (k) fluoranthene	< 0.05	0.05 µg/L							
Chrysene	< 0.05	0.05 µg/L							
Dibenz (a,h) anthracene	< 0.05	0.05 µg/L							
Fluoranthene	< 0.03	0.03 µg/L							
Fluorene	< 0.05	0.05 µg/L							
Indeno (1,2,3-cd) pyrene	< 0.05	0.05 µg/L							
Naphthalene	< 0.20	0.20 µg/L							
Phenanthrene	< 0.10	0.10 µg/L							
Pyrene	< 0.02	0.02 µg/L							
Quinoline	< 0.10	0.10 µg/L							
Surrogate: Acridine-d9	3.37	µg/L	4.44		76	60-130			
Surrogate: Naphthalene-d8	3.95	µg/L	4.44		89	60-130			
Surrogate: Perylene-d12	5.01	µg/L	4.44		113	60-130			
<b>LCS (B6J0941-BS1)</b>					Prepared: 2016-10-17, Analyzed: 2016-10-17				
Acenaphthene	4.17	0.05 µg/L	4.44		94	70-130			
Acenaphthylene	3.90	0.20 µg/L	4.44		88	70-130			
Acridine	3.91	0.10 µg/L	4.44		88	60-130			
Anthracene	4.40	0.01 µg/L	4.44		99	70-130			
Benz (a) anthracene	4.40	0.01 µg/L	4.44		99	70-130			
Benzo (a) pyrene	5.16	0.01 µg/L	4.44		116	70-130			
Benzo (b) fluoranthene	4.17	0.05 µg/L	4.44		94	70-130			
Benzo (g,h,i) perylene	5.04	0.05 µg/L	4.44		113	70-130			
Benzo (k) fluoranthene	4.06	0.05 µg/L	4.44		91	70-130			
Chrysene	4.59	0.05 µg/L	4.44		103	70-130			
Dibenz (a,h) anthracene	5.01	0.05 µg/L	4.44		113	70-130			
Fluoranthene	4.70	0.03 µg/L	4.44		106	70-130			
Fluorene	3.96	0.05 µg/L	4.44		89	70-130			
Indeno (1,2,3-cd) pyrene	5.08	0.05 µg/L	4.44		114	70-130			
Naphthalene	4.33	0.20 µg/L	4.44		97	70-130			
Phenanthrene	4.54	0.10 µg/L	4.44		102	70-130			
Pyrene	4.81	0.02 µg/L	4.44		108	70-130			
Quinoline	4.70	0.10 µg/L	4.44		106	70-130			
Surrogate: Acridine-d9	3.53	µg/L	4.44		79	60-130			
Surrogate: Naphthalene-d8	4.16	µg/L	4.44		94	60-130			
Surrogate: Perylene-d12	5.14	µg/L	4.44		116	60-130			
<b>LCS Dup (B6J0941-BSD1)</b>					Prepared: 2016-10-17, Analyzed: 2016-10-17				
Acenaphthene	4.08	0.05 µg/L	4.44		92	70-130	2	20	
Acenaphthylene	3.84	0.20 µg/L	4.44		86	70-130	2	20	
Acridine	3.85	0.10 µg/L	4.44		87	60-130	2	20	
Anthracene	4.27	0.01 µg/L	4.44		96	70-130	3	20	
Benz (a) anthracene	4.27	0.01 µg/L	4.44		96	70-130	3	20	
Benzo (a) pyrene	4.99	0.01 µg/L	4.44		112	70-130	3	20	
Benzo (b) fluoranthene	4.39	0.05 µg/L	4.44		99	70-130	5	20	
Benzo (g,h,i) perylene	4.78	0.05 µg/L	4.44		108	70-130	5	20	
Benzo (k) fluoranthene	3.94	0.05 µg/L	4.44		89	70-130	3	20	
Chrysene	4.57	0.05 µg/L	4.44		103	70-130	< 1	20	
Dibenz (a,h) anthracene	4.76	0.05 µg/L	4.44		107	70-130	5	20	
Fluoranthene	4.59	0.03 µg/L	4.44		103	70-130	2	20	
Fluorene	3.84	0.05 µg/L	4.44		86	70-130	3	20	
Indeno (1,2,3-cd) pyrene	5.17	0.05 µg/L	4.44		116	70-130	2	20	
Naphthalene	4.22	0.20 µg/L	4.44		95	70-130	2	20	
Phenanthrene	4.43	0.10 µg/L	4.44		100	70-130	2	20	
Pyrene	4.51	0.02 µg/L	4.44		101	70-130	6	20	

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**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 6101054  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J0941, Continued**

**LCS Dup (B6J0941-BSD1), Continued**

Prepared: 2016-10-17, Analyzed: 2016-10-17

Quinoline	4.67	0.10 µg/L	4.44		105	70-130	< 1	20	
Surrogate: Acridine-d9	3.50	µg/L	4.44		79	60-130			
Surrogate: Naphthalene-d8	4.06	µg/L	4.44		91	60-130			
Surrogate: Perylene-d12	5.04	µg/L	4.44		113	60-130			

**Total Metals, Batch B6J1029**

**Blank (B6J1029-BLK1)**

Prepared: 2016-10-17, Analyzed: 2016-10-18

Mercury, total	< 0.00002	0.00002 mg/L							
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**Duplicate (B6J1029-DUP1)**

Source: 6101054-02

Prepared: 2016-10-17, Analyzed: 2016-10-18

Mercury, total	< 0.00002	0.00002 mg/L		< 0.00002				20	
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**Matrix Spike (B6J1029-MS1)**

Source: 6101054-01

Prepared: 2016-10-17, Analyzed: 2016-10-18

Mercury, total	0.00019	0.00002 mg/L	0.000250	< 0.00002	76	70-130			
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**Reference (B6J1029-SRM1)**

Prepared: 2016-10-17, Analyzed: 2016-10-18

Mercury, total	0.00385	0.00002 mg/L	0.00486		79	50-150			
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**Total Metals, Batch B6J1037**

**Blank (B6J1037-BLK1)**

Prepared: 2016-10-17, Analyzed: 2016-10-18

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							

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Total Metals, Batch B6J1037, Continued**

**Blank (B6J1037-BLK1), Continued**

Prepared: 2016-10-17, Analyzed: 2016-10-18

Zinc, total	< 0.004	0.004 mg/L							
Zirconium, total	< 0.0001	0.0001 mg/L							

**Duplicate (B6J1037-DUP1)**

Source: 6101054-01

Prepared: 2016-10-17, Analyzed: 2016-10-18

Aluminum, total	0.452	0.005 mg/L		0.462			2	29	
Antimony, total	0.0005	0.0001 mg/L		0.0005			3	31	
Arsenic, total	< 0.0005	0.0005 mg/L		< 0.0005				15	
Barium, total	0.020	0.005 mg/L		0.020				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	0.041	0.004 mg/L		0.037			10	29	
Cadmium, total	0.00001	0.00001 mg/L		0.00001				33	
Calcium, total	78.9	0.2 mg/L		76.6			3	12	
Chromium, total	0.0009	0.0005 mg/L		0.0010				12	
Cobalt, total	0.00034	0.00005 mg/L		0.00037			10	13	
Copper, total	0.0025	0.0002 mg/L		0.0022			14	37	
Iron, total	0.56	0.01 mg/L		0.54			4	18	
Lead, total	0.0003	0.0001 mg/L		0.0003				23	
Lithium, total	0.0005	0.0001 mg/L		0.0005			1	19	
Magnesium, total	12.7	0.01 mg/L		12.3			3	10	
Manganese, total	0.0221	0.0002 mg/L		0.0212			4	13	
Molybdenum, total	0.0010	0.0001 mg/L		0.0009			13	20	
Nickel, total	0.0026	0.0002 mg/L		0.0025			2	28	
Phosphorus, total	0.02	0.02 mg/L		0.03				24	
Potassium, total	1.83	0.02 mg/L		1.78			3	13	
Selenium, total	0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	4.4	0.5 mg/L		4.1			6	11	
Silver, total	0.00007	0.00005 mg/L		< 0.00005				18	
Sodium, total	34.4	0.02 mg/L		33.4			3	10	
Strontium, total	0.278	0.001 mg/L		0.268			4	9	
Sulfur, total	57	1 mg/L		53			7	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	0.024	0.005 mg/L		0.025			3	32	
Uranium, total	0.00024	0.00002 mg/L		0.00023			5	14	
Vanadium, total	0.002	0.001 mg/L		0.002				17	
Zinc, total	0.004	0.004 mg/L		< 0.004				8	
Zirconium, total	0.0002	0.0001 mg/L		0.0004				60	

**Matrix Spike (B6J1037-MS1)**

Source: 6101054-02

Prepared: 2016-10-17, Analyzed: 2016-10-18

Antimony, total	0.441	0.0001 mg/L	0.400	0.0004	110	84-125
Arsenic, total	0.208	0.0005 mg/L	0.200	< 0.0005	104	85-116
Barium, total	1.01	0.005 mg/L	1.00	0.022	98	87-114
Beryllium, total	0.0855	0.0001 mg/L	0.100	< 0.0001	85	72-116
Cadmium, total	0.0992	0.00001 mg/L	0.100	0.00001	99	90-112
Chromium, total	0.411	0.0005 mg/L	0.400	0.0005	103	89-120
Cobalt, total	0.417	0.00005 mg/L	0.400	0.00028	104	88-120
Copper, total	0.421	0.0002 mg/L	0.400	0.0020	105	88-125
Iron, total	2.20	0.01 mg/L	2.00	0.11	105	88-119
Lead, total	0.198	0.0001 mg/L	0.200	0.0002	99	89-118
Manganese, total	0.419	0.0002 mg/L	0.400	0.0240	99	84-120
Nickel, total	0.421	0.0002 mg/L	0.400	0.0018	105	87-119
Selenium, total	0.111	0.0005 mg/L	0.100	0.0005	110	85-113
Silver, total	0.104	0.00005 mg/L	0.100	< 0.00005	104	89-119
Thallium, total	0.0993	0.00002 mg/L	0.100	< 0.00002	99	92-119

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Total Metals, Batch B6J1037, Continued**

**Matrix Spike (B6J1037-MS1), Continued**

Source: 6101054-02

Prepared: 2016-10-17, Analyzed: 2016-10-18

Vanadium, total	0.400	0.001 mg/L	0.400	0.001	100	87-117			
Zinc, total	1.02	0.004 mg/L	1.00	< 0.004	102	85-116			

**Reference (B6J1037-SRM1)**

Prepared: 2016-10-17, Analyzed: 2016-10-18

Aluminum, total	0.293	0.005 mg/L	0.303		97	81-129			
Antimony, total	0.0553	0.0001 mg/L	0.0511		108	88-114			
Arsenic, total	0.124	0.0005 mg/L	0.118		105	88-114			
Barium, total	0.794	0.005 mg/L	0.823		96	72-104			
Beryllium, total	0.0437	0.0001 mg/L	0.0496		88	76-131			
Boron, total	3.25	0.004 mg/L	3.45		94	75-121			
Cadmium, total	0.0505	0.0001 mg/L	0.0495		102	89-111			
Calcium, total	11.6	0.2 mg/L	11.6		100	86-121			
Chromium, total	0.262	0.0005 mg/L	0.250		105	89-114			
Cobalt, total	0.0415	0.00005 mg/L	0.0377		110	91-113			
Copper, total	0.537	0.0002 mg/L	0.486		111	91-115			
Iron, total	0.53	0.01 mg/L	0.488		108	77-124			
Lead, total	0.205	0.0001 mg/L	0.204		101	92-113			
Lithium, total	0.349	0.0001 mg/L	0.403		87	85-115			
Magnesium, total	4.00	0.01 mg/L	3.79		105	78-120			
Manganese, total	0.112	0.0002 mg/L	0.109		102	90-114			
Molybdenum, total	0.201	0.0001 mg/L	0.198		102	90-111			
Nickel, total	0.267	0.0002 mg/L	0.249		107	90-111			
Phosphorus, total	0.19	0.02 mg/L	0.227		85	85-115			
Potassium, total	7.70	0.02 mg/L	7.21		107	84-113			
Selenium, total	0.132	0.0005 mg/L	0.121		109	85-115			
Sodium, total	8.14	0.02 mg/L	7.54		108	82-123			
Strontium, total	0.371	0.001 mg/L	0.375		99	88-112			
Thallium, total	0.0829	0.00002 mg/L	0.0805		103	91-114			
Uranium, total	0.0304	0.00002 mg/L	0.0306		99	85-120			
Vanadium, total	0.398	0.001 mg/L	0.386		103	86-111			
Zinc, total	2.56	0.004 mg/L	2.49		103	85-111			

**Volatile Organic Compounds (VOC), Batch B6J1009**

**Blank (B6J1009-BLK1)**

Prepared: 2016-10-18, Analyzed: 2016-10-18

Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 1.0	1.0 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Chloromethane	< 2.0	2.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Blank (B6J1009-BLK1), Continued</b>									
					Prepared: 2016-10-18, Analyzed: 2016-10-18				
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L							
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Methylene chloride	< 3.0	3.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L							
Tetrachloroethene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 2.0	2.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	24.0	µg/L	25.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	23.0	µg/L	25.0		92	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	23.5	µg/L	25.0		94	70-130			
<b>LCS (B6J1009-BS1)</b>									
					Prepared: 2016-10-18, Analyzed: 2016-10-18				
Benzene	21.0	0.5 µg/L	20.0		105	70-130			
Bromodichloromethane	22.0	1.0 µg/L	20.0		110	70-130			
Bromoform	23.8	1.0 µg/L	20.0		119	70-130			
Bromomethane	18.1	2.0 µg/L	20.0		90	70-130			
Carbon tetrachloride	17.4	1.0 µg/L	20.0		87	70-130			
Chlorobenzene	21.9	1.0 µg/L	20.0		109	70-130			
Chloroethane	19.7	2.0 µg/L	20.0		99	70-130			
Chloroform	20.6	1.0 µg/L	20.0		103	70-130			
Chloromethane	17.0	2.0 µg/L	20.0		85	70-130			
Dibromochloromethane	21.6	1.0 µg/L	20.0		108	70-130			
1,2-Dibromoethane	22.5	0.3 µg/L	20.0		113	70-130			
Dibromomethane	21.2	1.0 µg/L	20.0		106	70-130			
1,2-Dichlorobenzene	22.6	0.5 µg/L	20.0		113	70-130			
1,3-Dichlorobenzene	21.3	1.0 µg/L	20.0		107	70-130			
1,4-Dichlorobenzene	21.2	1.0 µg/L	20.0		106	70-130			
1,1-Dichloroethane	22.0	1.0 µg/L	20.0		110	70-130			
1,2-Dichloroethane	22.5	1.0 µg/L	20.0		113	70-130			
1,1-Dichloroethene	18.6	1.0 µg/L	20.0		93	70-130			
cis-1,2-Dichloroethene	20.2	1.0 µg/L	20.0		101	70-130			
trans-1,2-Dichloroethene	18.6	1.0 µg/L	20.0		93	70-130			
1,2-Dichloropropane	22.8	1.0 µg/L	20.0		114	70-130			
cis-1,3-Dichloropropene	17.5	1.0 µg/L	20.0		88	70-130			
trans-1,3-Dichloropropene	17.2	1.0 µg/L	20.0		86	70-130			
Ethylbenzene	20.9	1.0 µg/L	20.0		105	70-130			
Methyl tert-butyl ether	20.9	1.0 µg/L	20.0		104	70-130			
Methylene chloride	21.2	3.0 µg/L	20.0		106	70-130			
Styrene	20.4	1.0 µg/L	20.0		102	70-130			
1,1,1,2-Tetrachloroethane	21.9	1.0 µg/L	20.0		109	70-130			
1,1,2,2-Tetrachloroethane	26.0	1.0 µg/L	20.0		130	70-130			
Tetrachloroethene	22.2	1.0 µg/L	20.0		111	70-130			
Toluene	21.2	1.0 µg/L	20.0		106	70-130			
1,1,1-Trichloroethane	20.3	1.0 µg/L	20.0		102	70-130			
1,1,2-Trichloroethane	23.1	1.0 µg/L	20.0		116	70-130			
Trichloroethene	20.2	1.0 µg/L	20.0		101	70-130			
Trichlorofluoromethane	20.1	1.0 µg/L	20.0		101	70-130			

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Volatile Organic Compounds (VOC), Batch B6J1009, Continued</b>									
<b>LCS (B6J1009-BS1), Continued</b>					Prepared: 2016-10-18, Analyzed: 2016-10-18				
Vinyl chloride	17.4	2.0 µg/L	20.0		87	70-130			
Xylenes (total)	63.2	2.0 µg/L	60.0		105	70-130			
Surrogate: Toluene-d8	24.5	µg/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	26.3	µg/L	25.0		105	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	28.0	µg/L	25.0		112	70-130			
<b>Duplicate (B6J1009-DUP1)</b>			<b>Source: 6101054-02</b>		Prepared: 2016-10-18, Analyzed: 2016-10-18				
Benzene	< 0.5	0.5 µg/L		< 0.5				20	
Bromodichloromethane	< 1.0	1.0 µg/L		< 1.0				20	
Bromoform	< 1.0	1.0 µg/L		< 1.0				20	
Bromomethane	< 2.0	2.0 µg/L		< 2.0				20	
Carbon tetrachloride	< 1.0	1.0 µg/L		< 1.0				20	
Chlorobenzene	< 1.0	1.0 µg/L		< 1.0				20	
Chloroethane	< 2.0	2.0 µg/L		< 2.0				20	
Chloroform	< 1.0	1.0 µg/L		< 1.0				20	
Chloromethane	< 2.0	2.0 µg/L		< 2.0				20	
Dibromochloromethane	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dibromoethane	< 0.3	0.3 µg/L		< 0.3				20	
Dibromomethane	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dichlorobenzene	< 0.5	0.5 µg/L		< 0.5				20	
1,3-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0				20	
1,4-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0				20	
1,1-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
1,2-Dichloropropane	< 1.0	1.0 µg/L		< 1.0				20	
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L		< 1.0				20	
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L		< 1.0				20	
Ethylbenzene	< 1.0	1.0 µg/L		< 1.0				20	
Methyl tert-butyl ether	< 1.0	1.0 µg/L		< 1.0				20	
Methylene chloride	< 3.0	3.0 µg/L		< 3.0				20	
Styrene	< 1.0	1.0 µg/L		< 1.0				20	
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L		< 1.0				20	
Tetrachloroethene	< 1.0	1.0 µg/L		< 1.0				20	
Toluene	< 1.0	1.0 µg/L		< 1.0				20	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				20	
Trichloroethene	< 1.0	1.0 µg/L		< 1.0				20	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				20	
Vinyl chloride	< 2.0	2.0 µg/L		< 2.0				20	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				20	
Surrogate: Toluene-d8	23.6	µg/L	25.0		94	70-130			
Surrogate: 4-Bromofluorobenzene	23.4	µg/L	25.0		93	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	24.6	µg/L	25.0		98	70-130			

**QC Qualifiers:**

SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

		6101054-01	6101054-02
		Water	Water
		2016-10-16	2016-10-16
		WEIR	SW-1
Anions	Chloride (mg/L)	68.1	59.1
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.943	1.07
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	167	167
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	33	43
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	33	43
	Alkalinity, Carbonate (as CaCO3) (mg/L)	< 1	< 1
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	< 1	< 1
	Colour, True (CU)	< 5	< 5
	Conductivity (EC) (uS/cm)	645	631
	pH (pH units)	7.14	7.17
	Solids, Total Suspended (mg/L)	7	< 2
	Turbidity (NTU)	15.4	3.39
Calculated Parameters	Hardness, Total (as CaCO3) (mg/L)	239	243
	Solids, Total Dissolved (mg/L)	383	378
Dissolved Metals	Aluminum, dissolved (mg/L)	< 0.005	< 0.005
	Antimony, dissolved (mg/L)	0.0004	0.0004
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.017	0.021
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.037	0.038
	Cadmium, dissolved (mg/L)	0.00002	0.00001
	Calcium, dissolved (mg/L)	76.0	76.7
	Chromium, dissolved (mg/L)	0.0009	0.0007
	Cobalt, dissolved (mg/L)	0.00011	0.00018
	Copper, dissolved (mg/L)	0.0010	0.0014
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0002	0.0002
	Magnesium, dissolved (mg/L)	12.0	12.6
	Manganese, dissolved (mg/L)	0.0134	0.0193
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0010	0.0015
	Nickel, dissolved (mg/L)	0.0018	0.0016
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	1.71	1.86
	Selenium, dissolved (mg/L)	< 0.0005	0.0005
	Silicon, dissolved (mg/L)	3.3	4.0
	Silver, dissolved (mg/L)	0.00013	< 0.00005
	Sodium, dissolved (mg/L)	34.1	29.7
	Strontium, dissolved (mg/L)	0.266	0.258

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

		6101054-01	6101054-02
		Water	Water
		2016-10-16	2016-10-16
		WEIR	SW-1
Dissolved Metals	Sulfur, dissolved (mg/L)	54	53
	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)	0.00022	0.00042
	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)	0.462	0.101
	Antimony, total (mg/L)	0.0005	0.0004
	Arsenic, total (mg/L)	< 0.0005	< 0.0005
	Barium, total (mg/L)	0.020	0.022
	Beryllium, total (mg/L)	< 0.0001	< 0.0001
	Bismuth, total (mg/L)	< 0.0001	< 0.0001
	Boron, total (mg/L)	0.037	0.039
	Cadmium, total (mg/L)	0.00001	0.00001
	Calcium, total (mg/L)	76.6	79.2
	Chromium, total (mg/L)	0.0010	< 0.0005
	Cobalt, total (mg/L)	0.00037	0.00028
	Copper, total (mg/L)	0.0022	0.0020
	Iron, total (mg/L)	0.54	0.11
	Lead, total (mg/L)	0.0003	0.0002
	Lithium, total (mg/L)	0.0005	0.0003
	Magnesium, total (mg/L)	12.3	13.2
	Manganese, total (mg/L)	0.0212	0.0240
	Mercury, total (mg/L)	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0009	0.0015
	Nickel, total (mg/L)	0.0025	0.0018
	Phosphorus, total (mg/L)	0.03	< 0.02
	Potassium, total (mg/L)	1.78	1.93
	Selenium, total (mg/L)	< 0.0005	0.0005
	Silicon, total (mg/L)	4.1	4.3
	Silver, total (mg/L)	< 0.00005	< 0.00005
	Sodium, total (mg/L)	33.4	31.1
	Strontium, total (mg/L)	0.268	0.269
	Sulfur, total (mg/L)	53	56
	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)	0.025	0.007
Uranium, total (mg/L)	0.00023	0.00043	
Vanadium, total (mg/L)	0.002	0.001	



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

**WORK ORDER REPORTED** 6101054  
2016-10-18

		6101054-01	6101054-02
		Water	Water
		2016-10-16	2016-10-16
		WEIR	SW-1
Total Metals	Zinc, total (mg/L)	< 0.004	< 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 (%)	89	84
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 (%)	96	108
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	< 0.05	< 0.05
	Acenaphthylene (ug/L)	< 0.20	< 0.20
	Acridine (ug/L)	< 0.10	< 0.10
	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)	< 0.10	< 0.10
	Sur: Acridine-d9 (%)	73	77
	Sur: Naphthalene-d8 (%)	96	117
Sur: Perylene-d12 (%)	110	116	
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)	< 1.0	< 1.0
	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)	< 0.3	< 0.3
	Dibromomethane (ug/L)	< 1.0	< 1.0

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

**WORK ORDER REPORTED** 6101054  
2016-10-18

		6101054-01	6101054-02
		Water	Water
		2016-10-16	2016-10-16
		WEIR	SW-1
Volatile Organic Compounds (VOC)	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)	< 1.0	< 1.0
	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)	< 2.0	< 2.0
	Xylenes (total) (ug/L)	2.1	< 2.0
	Sur: Toluene-d8 (%)	102	95
	Sur: 4-Bromofluorobenzene (%)	101	95
	Sur: 1,4-Dichlorobenzene-d4 (%)	109	102

<p><b>Client Information</b></p> <p>Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726</p>	<p><b>Project Information</b></p> <p>SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 1</p>	<p><b>Laboratory Information</b></p> <p>CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599</p>	<p><b>COC Information</b></p> <p>Number: B33065 Shipped via: Harbour Air</p>
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#1	<p>1 (Template: 01) 10/16/2016 07:45 Grab / Water</p>	<p style="text-align: center;"><b>Analyses</b></p> <p>Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg &amp; Low (RMD) TAT: 1 Mercury, total CVAFS Reg &amp; Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1</p>	<p style="text-align: center;"><b>Containers</b></p> <p>C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)</p>
#2	<p>2 (Template: 01) 10/16/2016 08:00 Grab / Water</p>	<p style="text-align: center;"><b>Analyses</b></p> <p>Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg &amp; Low (RMD) TAT: 1 Mercury, total CVAFS Reg &amp; Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1</p>	<p style="text-align: center;"><b>Containers</b></p> <p>C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)</p>

Relinquished by	Date/Time	Accepted by	Date/Time

Client Information	Project Information	Laboratory Information	COC Information
Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 1	CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	Number: B33065 Shipped via: Harbour Air

#1	1 (Template: 01) 10/16/2016 07:45 <i>weir</i> Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)
#2	2 (Template: 01) 10/16/2016 08:00 <i>sw-1</i> Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 1 Anions in Water by IC, 5 Analytes (KEL) TAT: 1 Colour, True - 456 nm (KEL) TAT: 1 Conductivity in Water (KEL) TAT: 1 Glycols in Water (RMD) TAT: 1 L/HEPH in Water (RMD) TAT: 1 Mercury, diss CVAFS Reg & Low (RMD) TAT: 1 Mercury, total CVAFS Reg & Low (RMD) TAT: 1 Metals, dissolved, All, Low (RMD) TAT: 1 Metals, total, All, Low (RMD) TAT: 1 pH in Water (KEL) TAT: 1 Solids, Total Dissolved (KEL) TAT: 1 Solids, Total Suspended (KEL) TAT: 1 Turbidity (KEL) TAT: 1 VOC in Water (RMD) TAT: 1	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) C04_40 mL Vial (VOC Water) C05_125 mL Plastic (Metals) C06_40 mL Vial (Mercury) C10_125 mL Plastic (H2SO4) C11_1 L Plastic (General) C19_40 mL Vial (General CG) S05_125 mL Plastic (Metals-F) S06_40 mL Vial (Mercury-F)

Relinquished by	Date/Time	Accepted by	Date/Time
		<i>HM Navex 9.3</i>	<i>10/17/16</i>
			<i>15:20</i>

