

<b>REPORTED TO</b>	Allterra Construction 2158 Millstream Road Victoria, BC V9B 6H4	<b>TEL</b>	(250) 508-0726
		<b>FAX</b>	
<b>ATTENTION</b>	Rahim Gaidhar	<b>WORK ORDER</b>	7021028
<b>PO NUMBER</b>	P15-06 SIRM	<b>RECEIVED / TEMP</b>	2017-02-17 11:00 / 8°C
<b>PROJECT</b>	SIRM 460 Stebbings	<b>REPORTED</b>	2017-02-24
<b>PROJECT INFO</b>		<b>COC NUMBER</b>	20171216-A

**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.



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

*If you have any questions or concerns, please contact me at [bshaw@caro.ca](mailto:bshaw@caro.ca)*

**Locations:**

#110 4011 Viking Way  
Richmond, BC V6V 2K9  
Tel: 604-279-1499

#102 3677 Highway 97N  
Kelowna, BC V1X 5C3  
Tel: 250-765-9646

17225 109 Avenue  
Edmonton, AB T5S 1H7  
Tel: 780-489-9100

[www.caro.ca](http://www.caro.ca)

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

**WORK ORDER** 7021028  
**REPORTED** 2017-02-24

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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
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
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Kelowna
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260B	Purge&Trap / GC-MS (SIM)	Richmond

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

**Method Reference Descriptions:**

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

**Glossary of Terms:**

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

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 1-Weir (7021028-01) [Water] Sampled: 2017-02-16 10:30**

**Anions**

Chloride	16.9	± 0.8	0.10	mg/L	N/A	2017-02-19	
Fluoride	< 0.10		0.10	mg/L	N/A	2017-02-19	
Nitrate (as N)	0.264	± 0.033	0.010	mg/L	N/A	2017-02-19	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2017-02-19	
Sulfate	47.7	± 5.7	1.0	mg/L	N/A	2017-02-19	

**General Parameters**

Alkalinity, Total (as CaCO3)	35	± 2	1	mg/L	N/A	2017-02-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2017-02-19	
Alkalinity, Bicarbonate (as CaCO3)	35	± 2	1	mg/L	N/A	2017-02-19	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2017-02-19	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2017-02-19	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2017-02-20	
Colour, True	5	± 4	5	CU	N/A	2017-02-19	
Conductivity (EC)	231	± 4	2	µS/cm	N/A	2017-02-19	
pH	7.68	± 0.02	0.01	pH units	N/A	2017-02-19	HT2
Solids, Total Dissolved	144	± 17	10	mg/L	N/A	2017-02-22	
Solids, Total Suspended	6	± 1	2	mg/L	N/A	2017-02-21	
Turbidity	17.0	± 0.8	0.10	NTU	N/A	2017-02-18	

**Calculated Parameters**

Chromium, Trivalent	0.002		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	80.3		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	0.007	± 0.002	0.005	mg/L	N/A	2017-02-17	
Antimony, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2017-02-17	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2017-02-17	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Boron, dissolved	0.015	± 0.003	0.004	mg/L	N/A	2017-02-17	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2017-02-17	
Calcium, dissolved	25.5	± 4.1	0.2	mg/L	N/A	2017-02-17	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Cobalt, dissolved	< 0.00005		0.00005	mg/L	N/A	2017-02-17	
Copper, dissolved	0.0006	± 0.0003	0.0002	mg/L	N/A	2017-02-17	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2017-02-17	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Lithium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Magnesium, dissolved	4.07	± 0.69	0.01	mg/L	N/A	2017-02-17	
Manganese, dissolved	0.0006	± 0.0002	0.0002	mg/L	N/A	2017-02-17	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2017-02-20	2017-02-20	
Molybdenum, dissolved	0.0005	± 0.0001	0.0001	mg/L	N/A	2017-02-17	
Nickel, dissolved	0.0003	± 0.0002	0.0002	mg/L	N/A	2017-02-17	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2017-02-17	

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**Sample ID: 1-Weir (7021028-01) [Water] Sampled: 2017-02-16 10:30, Continued**

***Dissolved Metals, Continued***

Potassium, dissolved	0.63	± 0.10	0.02	mg/L	N/A	2017-02-17	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Silicon, dissolved	2.2	± 1.1	0.5	mg/L	N/A	2017-02-17	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2017-02-17	
Sodium, dissolved	10.2	± 1.7	0.02	mg/L	N/A	2017-02-17	
Strontium, dissolved	0.080	± 0.009	0.001	mg/L	N/A	2017-02-17	
Sulfur, dissolved	15	± 51	1	mg/L	N/A	2017-02-17	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2017-02-17	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2017-02-17	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2017-02-17	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2017-02-17	
Uranium, dissolved	0.00021	± 0.00003	0.00002	mg/L	N/A	2017-02-17	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2017-02-17	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2017-02-17	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	

***Total Metals***

Aluminum, total	0.985	± 0.179	0.005	mg/L	2017-02-17	2017-02-17	
Antimony, total	0.0002	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Arsenic, total	< 0.0005		0.0005	mg/L	2017-02-17	2017-02-17	
Barium, total	0.009	± 0.001	0.005	mg/L	2017-02-17	2017-02-17	
Beryllium, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Bismuth, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Boron, total	0.026	± 0.005	0.004	mg/L	2017-02-17	2017-02-17	
Cadmium, total	< 0.00001		0.00001	mg/L	2017-02-17	2017-02-17	
Calcium, total	28.0	± 3.4	0.2	mg/L	2017-02-17	2017-02-17	
Chromium, total	0.0020	± 0.0003	0.0005	mg/L	2017-02-17	2017-02-17	
Cobalt, total	0.00044	± 0.00004	0.00005	mg/L	2017-02-17	2017-02-17	
Copper, total	0.0034	± 0.0004	0.0002	mg/L	2017-02-17	2017-02-17	
Iron, total	1.02	± 0.20	0.01	mg/L	2017-02-17	2017-02-17	
Lead, total	0.0006	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Lithium, total	0.0007	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Magnesium, total	4.56	± 0.70	0.01	mg/L	2017-02-17	2017-02-17	
Manganese, total	0.0133	± 0.0012	0.0002	mg/L	2017-02-17	2017-02-17	
Mercury, total	< 0.00002		0.00002	mg/L	2017-02-20	2017-02-20	
Molybdenum, total	0.0006	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Nickel, total	0.0018	± 0.0002	0.0002	mg/L	2017-02-17	2017-02-17	
Phosphorus, total	< 0.02		0.02	mg/L	2017-02-17	2017-02-17	
Potassium, total	0.78	± 0.09	0.02	mg/L	2017-02-17	2017-02-17	
Selenium, total	< 0.0005		0.0005	mg/L	2017-02-17	2017-02-17	
Silicon, total	4.1	± 1.5	0.5	mg/L	2017-02-17	2017-02-17	
Silver, total	< 0.00005		0.00005	mg/L	2017-02-17	2017-02-17	
Sodium, total	11.0	± 1.6	0.02	mg/L	2017-02-17	2017-02-17	
Strontium, total	0.084	± 0.008	0.001	mg/L	2017-02-17	2017-02-17	
Sulfur, total	15	± 128	1	mg/L	2017-02-17	2017-02-17	

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**Sample ID: 1-Weir (7021028-01) [Water] Sampled: 2017-02-16 10:30, Continued**

**Total Metals, Continued**

Tellurium, total	< 0.0002		0.0002	mg/L	2017-02-17	2017-02-17	
Thallium, total	< 0.00002		0.00002	mg/L	2017-02-17	2017-02-17	
Thorium, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Tin, total	< 0.0002		0.0002	mg/L	2017-02-17	2017-02-17	
Titanium, total	<b>0.054</b>	± 0.007	0.005	mg/L	2017-02-17	2017-02-17	
Uranium, total	<b>0.00026</b>	± 0.00002	0.00002	mg/L	2017-02-17	2017-02-17	
Vanadium, total	<b>0.003</b>		0.001	mg/L	2017-02-17	2017-02-17	
Zinc, total	<b>0.004</b>	± 0.002	0.004	mg/L	2017-02-17	2017-02-17	
Zirconium, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	

**BCMOC Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2017-02-18	2017-02-18	
EPHw19-32	< 250		250	µg/L	2017-02-18	2017-02-18	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	82		60-140	%	2017-02-18	2017-02-18	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Ethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Diethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Triethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
<i>Surrogate: Tetramethylene Glycol</i>	75		66-125	%	N/A	2017-02-18	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Acenaphthylene	< 0.200		0.200	µg/L	2017-02-18	2017-02-18	
Acridine	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Anthracene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benz (a) anthracene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benzo (a) pyrene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benzo (b) fluoranthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Benzo (b+j) fluoranthene	< 0.100		0.100	µg/L	2017-02-18	2017-02-18	
Benzo (g,h,i) perylene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Benzo (k) fluoranthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Chrysene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Dibenz (a,h) anthracene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Fluoranthene	< 0.030		0.030	µg/L	2017-02-18	2017-02-18	
Fluorene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Indeno (1,2,3-cd) pyrene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Naphthalene	< 0.200		0.200	µg/L	2017-02-18	2017-02-18	
Phenanthrene	< 0.100		0.100	µg/L	2017-02-18	2017-02-18	
Pyrene	< 0.020		0.020	µg/L	2017-02-18	2017-02-18	
Quinoline	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
<i>Surrogate: Acridine-d9</i>	84		60-130	%	2017-02-18	2017-02-18	
<i>Surrogate: Naphthalene-d8</i>	102		60-130	%	2017-02-18	2017-02-18	
<i>Surrogate: Perylene-d12</i>	104		60-130	%	2017-02-18	2017-02-18	

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**Sample ID: 1-Weir (7021028-01) [Water] Sampled: 2017-02-16 10:30, Continued**

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2017-02-18	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Bromoform	< 1.0		1.0	µg/L	N/A	2017-02-18	
Bromomethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Carbon tetrachloride	< 0.5		0.5	µg/L	N/A	2017-02-18	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Chloroethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Chloroform	< 1.0		1.0	µg/L	N/A	2017-02-18	
Chloromethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dibromoethane	< 0.2		0.2	µg/L	N/A	2017-02-18	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2017-02-18	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2017-02-18	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2017-02-18	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2017-02-18	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2017-02-18	
Styrene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	N/A	2017-02-18	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Toluene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Vinyl chloride	< 1.0		1.0	µg/L	N/A	2017-02-18	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2017-02-18	
Surrogate: Toluene-d8	102		70-130	%	N/A	2017-02-18	
Surrogate: 4-Bromofluorobenzene	94		70-130	%	N/A	2017-02-18	
Surrogate: 1,4-Dichlorobenzene-d4	73		70-130	%	N/A	2017-02-18	

**Sample ID: 2-SW1 (7021028-02) [Water] Sampled: 2017-02-16 11:00**

**Anions**

Chloride	13.1 ± 0.6		0.10	mg/L	N/A	2017-02-19	
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**Sample ID: 2-SW1 (7021028-02) [Water] Sampled: 2017-02-16 11:00, Continued**

**Anions, Continued**

Fluoride	< 0.10		0.10	mg/L	N/A	2017-02-19	
Nitrate (as N)	<b>0.408</b>	± 0.051	0.010	mg/L	N/A	2017-02-19	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2017-02-19	
Sulfate	<b>49.9</b>	± 5.9	1.0	mg/L	N/A	2017-02-19	

**General Parameters**

Alkalinity, Total (as CaCO <sub>3</sub> )	<b>43</b>	± 3	1	mg/L	N/A	2017-02-19	
Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2017-02-19	
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	<b>43</b>	± 2	1	mg/L	N/A	2017-02-19	
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2017-02-19	
Alkalinity, Hydroxide (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2017-02-19	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2017-02-20	CR6
Colour, True	< 5		5	CU	N/A	2017-02-19	
Conductivity (EC)	<b>236</b>	± 4	2	µS/cm	N/A	2017-02-19	
pH	<b>7.61</b>	± 0.02	0.01	pH units	N/A	2017-02-19	HT2
Solids, Total Dissolved	<b>144</b>	± 17	10	mg/L	N/A	2017-02-22	
Solids, Total Suspended	< 2		2	mg/L	N/A	2017-02-21	
Turbidity	<b>4.85</b>	± 0.23	0.10	NTU	N/A	2017-02-18	

**Calculated Parameters**

Chromium, Trivalent	< 0.001		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO <sub>3</sub> )	<b>89.9</b>		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2017-02-17	
Antimony, dissolved	<b>0.0002</b>	± 0.0001	0.0001	mg/L	N/A	2017-02-17	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Barium, dissolved	< 0.005		0.005	mg/L	N/A	2017-02-17	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Boron, dissolved	<b>0.014</b>	± 0.003	0.004	mg/L	N/A	2017-02-17	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2017-02-17	
Calcium, dissolved	<b>28.7</b>	± 4.6	0.2	mg/L	N/A	2017-02-17	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Cobalt, dissolved	< 0.00005		0.00005	mg/L	N/A	2017-02-17	
Copper, dissolved	<b>0.0007</b>	± 0.0003	0.0002	mg/L	N/A	2017-02-17	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2017-02-17	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Lithium, dissolved	<b>0.0001</b>		0.0001	mg/L	N/A	2017-02-17	
Magnesium, dissolved	<b>4.40</b>	± 0.75	0.01	mg/L	N/A	2017-02-17	
Manganese, dissolved	<b>0.0007</b>	± 0.0002	0.0002	mg/L	N/A	2017-02-17	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2017-02-20	2017-02-20	
Molybdenum, dissolved	<b>0.0006</b>	± 0.0001	0.0001	mg/L	N/A	2017-02-17	
Nickel, dissolved	<b>0.0004</b>	± 0.0002	0.0002	mg/L	N/A	2017-02-17	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2017-02-17	
Potassium, dissolved	<b>0.57</b>	± 0.09	0.02	mg/L	N/A	2017-02-17	



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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (7021028-02) [Water] Sampled: 2017-02-16 11:00, Continued**

***Dissolved Metals, Continued***

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2017-02-17	
Silicon, dissolved	<b>3.1</b>	± 1.5	0.5	mg/L	N/A	2017-02-17	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2017-02-17	
Sodium, dissolved	<b>7.97</b>	± 1.29	0.02	mg/L	N/A	2017-02-17	
Strontium, dissolved	<b>0.081</b>	± 0.009	0.001	mg/L	N/A	2017-02-17	
Sulfur, dissolved	<b>16</b>	± 54	1	mg/L	N/A	2017-02-17	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2017-02-17	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2017-02-17	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2017-02-17	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2017-02-17	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2017-02-17	
Uranium, dissolved	<b>0.00024</b>	± 0.00003	0.00002	mg/L	N/A	2017-02-17	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2017-02-17	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2017-02-17	
Zirconium, dissolved	<b>0.0002</b>	± 0.0001	0.0001	mg/L	N/A	2017-02-17	

***Total Metals***

Aluminum, total	<b>0.226</b>	± 0.042	0.005	mg/L	2017-02-17	2017-02-17	
Antimony, total	<b>0.0002</b>	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Arsenic, total	< 0.0005		0.0005	mg/L	2017-02-17	2017-02-17	
Barium, total	<b>0.006</b>	± 0.001	0.005	mg/L	2017-02-17	2017-02-17	
Beryllium, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Bismuth, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Boron, total	<b>0.026</b>	± 0.005	0.004	mg/L	2017-02-17	2017-02-17	
Cadmium, total	< 0.00001		0.00001	mg/L	2017-02-17	2017-02-17	
Calcium, total	<b>29.8</b>	± 3.6	0.2	mg/L	2017-02-17	2017-02-17	
Chromium, total	<b>0.0005</b>	± 0.0001	0.0005	mg/L	2017-02-17	2017-02-17	
Cobalt, total	<b>0.00016</b>	± 0.00002	0.00005	mg/L	2017-02-17	2017-02-17	
Copper, total	<b>0.0015</b>	± 0.0002	0.0002	mg/L	2017-02-17	2017-02-17	
Iron, total	<b>0.23</b>	± 0.05	0.01	mg/L	2017-02-17	2017-02-17	
Lead, total	<b>0.0002</b>	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Lithium, total	<b>0.0002</b>		0.0001	mg/L	2017-02-17	2017-02-17	
Magnesium, total	<b>4.59</b>	± 0.70	0.01	mg/L	2017-02-17	2017-02-17	
Manganese, total	<b>0.0042</b>	± 0.0004	0.0002	mg/L	2017-02-17	2017-02-17	
Mercury, total	< 0.00002		0.00002	mg/L	2017-02-20	2017-02-20	
Molybdenum, total	<b>0.0007</b>	± 0.0001	0.0001	mg/L	2017-02-17	2017-02-17	
Nickel, total	<b>0.0007</b>	± 0.0001	0.0002	mg/L	2017-02-17	2017-02-17	
Phosphorus, total	< 0.02		0.02	mg/L	2017-02-17	2017-02-17	
Potassium, total	<b>0.59</b>	± 0.08	0.02	mg/L	2017-02-17	2017-02-17	
Selenium, total	< 0.0005		0.0005	mg/L	2017-02-17	2017-02-17	
Silicon, total	<b>3.4</b>	± 1.2	0.5	mg/L	2017-02-17	2017-02-17	
Silver, total	< 0.00005		0.00005	mg/L	2017-02-17	2017-02-17	
Sodium, total	<b>8.37</b>	± 1.23	0.02	mg/L	2017-02-17	2017-02-17	
Strontium, total	<b>0.080</b>	± 0.007	0.001	mg/L	2017-02-17	2017-02-17	
Sulfur, total	<b>15</b>	± 130	1	mg/L	2017-02-17	2017-02-17	
Tellurium, total	< 0.0002		0.0002	mg/L	2017-02-17	2017-02-17	

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**Sample ID: 2-SW1 (7021028-02) [Water] Sampled: 2017-02-16 11:00, Continued**

**Total Metals, Continued**

Thallium, total	< 0.00002		0.00002	mg/L	2017-02-17	2017-02-17	
Thorium, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	
Tin, total	< 0.0002		0.0002	mg/L	2017-02-17	2017-02-17	
Titanium, total	<b>0.011</b>	± 0.002	0.005	mg/L	2017-02-17	2017-02-17	
Uranium, total	<b>0.00025</b>	± 0.00002	0.00002	mg/L	2017-02-17	2017-02-17	
Vanadium, total	< 0.001		0.001	mg/L	2017-02-17	2017-02-17	
Zinc, total	< 0.004		0.004	mg/L	2017-02-17	2017-02-17	
Zirconium, total	< 0.0001		0.0001	mg/L	2017-02-17	2017-02-17	

**BCMOC Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2017-02-18	2017-02-18	
EPHw19-32	< 250		250	µg/L	2017-02-18	2017-02-18	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
<i>Surrogate: 2-Methylnonane</i>	77		60-140	%	2017-02-18	2017-02-18	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Ethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Diethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
Triethylene glycol	< 5		5	mg/L	N/A	2017-02-18	
<i>Surrogate: Tetramethylene Glycol</i>	79		66-125	%	N/A	2017-02-18	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Acenaphthylene	< 0.200		0.200	µg/L	2017-02-18	2017-02-18	
Acridine	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Anthracene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benz (a) anthracene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benzo (a) pyrene	< 0.010		0.010	µg/L	2017-02-18	2017-02-18	
Benzo (b) fluoranthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Benzo (b+j) fluoranthene	< 0.100		0.100	µg/L	2017-02-18	2017-02-18	
Benzo (g,h,i) perylene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Benzo (k) fluoranthene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Chrysene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Dibenz (a,h) anthracene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Fluoranthene	< 0.030		0.030	µg/L	2017-02-18	2017-02-18	
Fluorene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Indeno (1,2,3-cd) pyrene	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
Naphthalene	< 0.200		0.200	µg/L	2017-02-18	2017-02-18	
Phenanthrene	< 0.100		0.100	µg/L	2017-02-18	2017-02-18	
Pyrene	< 0.020		0.020	µg/L	2017-02-18	2017-02-18	
Quinoline	< 0.050		0.050	µg/L	2017-02-18	2017-02-18	
<i>Surrogate: Acridine-d9</i>	77		60-130	%	2017-02-18	2017-02-18	
<i>Surrogate: Naphthalene-d8</i>	97		60-130	%	2017-02-18	2017-02-18	
<i>Surrogate: Perylene-d12</i>	100		60-130	%	2017-02-18	2017-02-18	

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2-SW1 (7021028-02) [Water] Sampled: 2017-02-16 11:00, Continued**

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5		0.5	µg/L	N/A	2017-02-18	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Bromoform	< 1.0		1.0	µg/L	N/A	2017-02-18	
Bromomethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Carbon tetrachloride	< 0.5		0.5	µg/L	N/A	2017-02-18	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Chloroethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Chloroform	< 1.0		1.0	µg/L	N/A	2017-02-18	
Chloromethane	< 2.0		2.0	µg/L	N/A	2017-02-18	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dibromoethane	< 0.2		0.2	µg/L	N/A	2017-02-18	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2017-02-18	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2017-02-18	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2017-02-18	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2017-02-18	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2017-02-18	
Styrene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,2,2-Tetrachloroethane	< 0.5		0.5	µg/L	N/A	2017-02-18	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Toluene	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2017-02-18	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2017-02-18	
Vinyl chloride	< 1.0		1.0	µg/L	N/A	2017-02-18	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2017-02-18	
Surrogate: Toluene-d8	104		70-130	%	N/A	2017-02-18	
Surrogate: 4-Bromofluorobenzene	97		70-130	%	N/A	2017-02-18	
Surrogate: 1,4-Dichlorobenzene-d4	74		70-130	%	N/A	2017-02-18	

**Sample / Analysis Qualifiers:**

CR6 Hexavalent chromium result adjusted to correspond to the total chromium result.  
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
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**Anions, Batch B7B0960**

Blank (B7B0960-BLK1) Prepared: 2017-02-20, Analyzed: 2017-02-20									
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							

LCS (B7B0960-BS1) Prepared: 2017-02-20, Analyzed: 2017-02-20									
Chloride	15.8	0.10 mg/L	16.0		99	90-110			
Fluoride	4.00	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	4.01	0.010 mg/L	4.00		100	93-108			
Nitrite (as N)	2.01	0.010 mg/L	2.00		101	83-110			
Sulfate	15.8	1.0 mg/L	16.0		99	91-109			

**BCMOE Aggregate Hydrocarbons, Batch B7B0926**

Blank (B7B0926-BLK1) Prepared: 2017-02-18, Analyzed: 2017-02-18									
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane	380	µg/L	444		85	60-140			

LCS (B7B0926-BS2) Prepared: 2017-02-18, Analyzed: 2017-02-18									
EPHw10-19	13300	250 µg/L	15500		86	70-130			
EPHw19-32	15600	250 µg/L	22200		70	70-130			
Surrogate: 2-Methylnonane	386	µg/L	444		87	60-140			

**Dissolved Metals, Batch B7B0877**

Blank (B7B0877-BLK1) Prepared: 2017-02-17, Analyzed: 2017-02-17									
Aluminum, dissolved	< 0.005	0.005 mg/L							
Antimony, dissolved	< 0.0001	0.0001 mg/L							
Arsenic, dissolved	< 0.0005	0.0005 mg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 7021028  
2017-02-24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B7B0877, Continued**

**Blank (B7B0877-BLK1), Continued**

Prepared: 2017-02-17, Analyzed: 2017-02-17

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							

**Reference (B7B0877-SRM1)**

Prepared: 2017-02-17, Analyzed: 2017-02-17

Aluminum, dissolved	0.223	0.005 mg/L	0.233		96	58-142			
Antimony, dissolved	0.0468	0.0001 mg/L	0.0430		109	75-125			
Arsenic, dissolved	0.432	0.0005 mg/L	0.438		99	81-119			
Barium, dissolved	3.30	0.005 mg/L	3.35		99	83-117			
Beryllium, dissolved	0.226	0.0001 mg/L	0.213		106	80-120			
Boron, dissolved	1.70	0.004 mg/L	1.74		98	74-117			
Cadmium, dissolved	0.221	0.00001 mg/L	0.224		99	83-117			
Calcium, dissolved	8.1	0.2 mg/L	7.69		105	76-124			
Chromium, dissolved	0.422	0.0005 mg/L	0.437		97	81-119			
Cobalt, dissolved	0.127	0.00005 mg/L	0.128		99	76-124			
Copper, dissolved	0.837	0.0002 mg/L	0.844		99	84-116			
Iron, dissolved	1.25	0.010 mg/L	1.29		97	74-126			
Lead, dissolved	0.111	0.0001 mg/L	0.112		99	72-128			
Lithium, dissolved	0.113	0.0001 mg/L	0.104		108	60-140			
Magnesium, dissolved	6.82	0.01 mg/L	6.92		99	81-119			
Manganese, dissolved	0.339	0.0002 mg/L	0.345		98	84-116			
Molybdenum, dissolved	0.427	0.0001 mg/L	0.426		100	83-117			
Nickel, dissolved	0.837	0.0002 mg/L	0.840		100	74-126			
Phosphorus, dissolved	0.48	0.02 mg/L	0.495		97	68-132			
Potassium, dissolved	3.21	0.02 mg/L	3.19		101	74-126			
Selenium, dissolved	0.0344	0.0005 mg/L	0.0331		104	70-130			
Sodium, dissolved	18.6	0.02 mg/L	19.1		97	72-128			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 7021028  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B7B0877, Continued</b>									
<b>Reference (B7B0877-SRM1), Continued</b>					Prepared: 2017-02-17, Analyzed: 2017-02-17				
Strontium, dissolved	0.888	0.001 mg/L	0.916		97	84-113			
Thallium, dissolved	0.0392	0.00002 mg/L	0.0393		100	57-143			
Uranium, dissolved	0.258	0.00002 mg/L	0.266		97	85-115			
Vanadium, dissolved	0.821	0.001 mg/L	0.869		94	87-113			
Zinc, dissolved	0.877	0.004 mg/L	0.881		100	72-128			
<b>Dissolved Metals, Batch B7B0985</b>									
<b>Blank (B7B0985-BLK1)</b>					Prepared: 2017-02-20, Analyzed: 2017-02-20				
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Reference (B7B0985-SRM1)</b>					Prepared: 2017-02-20, Analyzed: 2017-02-20				
Mercury, dissolved	0.00486	0.00002 mg/L	0.00489		99	50-150			
<b>General Parameters, Batch B7B0936</b>									
<b>Blank (B7B0936-BLK1)</b>					Prepared: 2017-02-18, Analyzed: 2017-02-18				
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B7B0936-BS1)</b>					Prepared: 2017-02-18, Analyzed: 2017-02-18				
Turbidity	40.2	0.10 NTU	40.0		100	90-110			
<b>General Parameters, Batch B7B0963</b>									
<b>Blank (B7B0963-BLK1)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
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)	< 1	2 µS/cm							
<b>Blank (B7B0963-BLK2)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
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)	< 1	2 µS/cm							
<b>LCS (B7B0963-BS1)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	92-106			
<b>LCS (B7B0963-BS2)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
Conductivity (EC)	1400	2 µS/cm	1410		99	95-104			
<b>LCS (B7B0963-BS3)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	92-106			
<b>LCS (B7B0963-BS4)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
Conductivity (EC)	1420	2 µS/cm	1410		101	95-104			
<b>Reference (B7B0963-SRM1)</b>					Prepared: 2017-02-19, Analyzed: 2017-02-19				
pH	6.99	0.01 pH units	7.00		100	98-102			

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**REPORTED TO PROJECT** Allterra Construction  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B7B0963, Continued</b>									
<b>Reference (B7B0963-SRM2)</b>			Prepared: 2017-02-19, Analyzed: 2017-02-19						
pH	7.00	0.01 pH units	7.00		100	98-102			
<b>General Parameters, Batch B7B0965</b>									
<b>Blank (B7B0965-BLK1)</b>			Prepared: 2017-02-19, Analyzed: 2017-02-19						
Colour, True	< 5	5 CU							
<b>LCS (B7B0965-BS1)</b>			Prepared: 2017-02-19, Analyzed: 2017-02-19						
Colour, True	11	5 CU	10.0		108	85-115			
<b>General Parameters, Batch B7B0986</b>									
<b>Blank (B7B0986-BLK1)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Chromium, Hexavalent	< 0.001	0.001 mg/L							
<b>LCS (B7B0986-BS1)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Chromium, Hexavalent	0.101	0.001 mg/L	0.100		101	90-111			
<b>Duplicate (B7B0986-DUP1)</b>			<b>Source: 7021028-02</b>		Prepared: 2017-02-20, Analyzed: 2017-02-20				
Chromium, Hexavalent	< 0.001	0.001 mg/L		< 0.001					7
<b>General Parameters, Batch B7B1066</b>									
<b>Blank (B7B1066-BLK1)</b>			Prepared: 2017-02-21, Analyzed: 2017-02-21						
Solids, Total Suspended	< 1	2 mg/L							
<b>LCS (B7B1066-BS1)</b>			Prepared: 2017-02-21, Analyzed: 2017-02-21						
Solids, Total Suspended	51	2 mg/L	50.0		102	91-106			
<b>General Parameters, Batch B7B1118</b>									
<b>Blank (B7B1118-BLK1)</b>			Prepared: 2017-02-22, Analyzed: 2017-02-22						
Solids, Total Dissolved	< 10	10 mg/L							
<b>LCS (B7B1118-BS1)</b>			Prepared: 2017-02-22, Analyzed: 2017-02-22						
Solids, Total Dissolved	243	10 mg/L	240		101	80-120			
<b>Glycols, Batch B7B0942</b>									
<b>Blank (B7B0942-BLK1)</b>			Prepared: 2017-02-18, Analyzed: 2017-02-18						
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	88.5	mg/L	123		72	66-125			
<b>LCS (B7B0942-BS1)</b>			Prepared: 2017-02-18, Analyzed: 2017-02-18						
Propylene glycol	45	5 mg/L	50.0		89	71-114			
Ethylene glycol	44	5 mg/L	49.9		87	82-124			
Diethylene glycol	45	5 mg/L	50.0		91	80-116			
Triethylene glycol	44	5 mg/L	49.8		89	73-120			
Surrogate: Tetramethylene Glycol	86.4	mg/L	123		70	66-125			
<b>LCS Dup (B7B0942-BSD1)</b>			Prepared: 2017-02-18, Analyzed: 2017-02-18						
Propylene glycol	47	5 mg/L	50.0		93	71-114	5	20	

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**WORK ORDER REPORTED** 7021028  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Glycols, Batch B7B0942, Continued**

**LCS Dup (B7B0942-BSD1), Continued**

Prepared: 2017-02-18, Analyzed: 2017-02-18

Ethylene glycol	46	5 mg/L	49.9		92	82-124	5	20	
Diethylene glycol	47	5 mg/L	50.0		94	80-116	4	20	
Triethylene glycol	46	5 mg/L	49.8		93	73-120	5	20	
Surrogate: Tetramethylene Glycol	86.5	mg/L	123		70	66-125			

**Polycyclic Aromatic Hydrocarbons (PAH), Batch B7B0926**

**Blank (B7B0926-BLK1)**

Prepared: 2017-02-18, Analyzed: 2017-02-18

Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benz (a) anthracene	< 0.010	0.010 µg/L							
Benzo (a) pyrene	< 0.010	0.010 µg/L							
Benzo (b) fluoranthene	< 0.050	0.050 µg/L							
Benzo (b+j) fluoranthene	< 0.100	0.100 µg/L							
Benzo (g,h,i) perylene	< 0.050	0.050 µg/L							
Benzo (k) fluoranthene	< 0.050	0.050 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz (a,h) anthracene	< 0.050	0.050 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno (1,2,3-cd) pyrene	< 0.050	0.050 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Acridine-d9	3.60	µg/L	4.44		81	60-130			
Surrogate: Naphthalene-d8	4.24	µg/L	4.44		95	60-130			
Surrogate: Perylene-d12	4.72	µg/L	4.44		106	60-130			

**LCS (B7B0926-BS1)**

Prepared: 2017-02-18, Analyzed: 2017-02-18

Acenaphthene	4.36	0.050 µg/L	4.44		98	70-130			
Acenaphthylene	4.38	0.200 µg/L	4.44		99	70-130			
Acridine	3.18	0.050 µg/L	4.44		72	60-130			
Anthracene	4.54	0.010 µg/L	4.44		102	70-130			
Benz (a) anthracene	4.30	0.010 µg/L	4.44		97	70-130			
Benzo (a) pyrene	4.02	0.010 µg/L	4.44		91	70-130			
Benzo (b) fluoranthene	4.35	0.050 µg/L	4.44		98	70-130			
Benzo (b+j) fluoranthene	8.59	0.100 µg/L	8.89		97	70-130			
Benzo (g,h,i) perylene	4.16	0.050 µg/L	4.44		94	70-130			
Benzo (k) fluoranthene	4.38	0.050 µg/L	4.44		99	70-130			
Chrysene	4.32	0.050 µg/L	4.44		97	70-130			
Dibenz (a,h) anthracene	3.86	0.050 µg/L	4.44		87	70-130			
Fluoranthene	4.72	0.030 µg/L	4.44		106	70-130			
Fluorene	4.19	0.050 µg/L	4.44		94	70-130			
Indeno (1,2,3-cd) pyrene	4.04	0.050 µg/L	4.44		91	70-130			
Naphthalene	4.34	0.200 µg/L	4.44		98	70-130			
Phenanthrene	4.51	0.100 µg/L	4.44		101	70-130			
Pyrene	4.71	0.020 µg/L	4.44		106	70-130			
Quinoline	5.16	0.050 µg/L	4.44		116	70-130			
Surrogate: Acridine-d9	2.67	µg/L	4.44		60	60-130			
Surrogate: Naphthalene-d8	4.40	µg/L	4.44		99	60-130			
Surrogate: Perylene-d12	4.60	µg/L	4.44		103	60-130			



**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 7021028  
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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 B7B0926, Continued</b>									
<b>LCS Dup (B7B0926-BSD1)</b>					Prepared: 2017-02-18, Analyzed: 2017-02-18				
Acenaphthene	4.52	0.050 µg/L	4.44		102	70-130	4	20	
Acenaphthylene	4.56	0.200 µg/L	4.44		103	70-130	4	20	
Acridine	3.87	0.050 µg/L	4.44		87	60-130	20	20	
Anthracene	4.57	0.010 µg/L	4.44		103	70-130	< 1	20	
Benz (a) anthracene	4.42	0.010 µg/L	4.44		99	70-130	3	20	
Benzo (a) pyrene	4.14	0.010 µg/L	4.44		93	70-130	3	20	
Benzo (b) fluoranthene	4.50	0.050 µg/L	4.44		101	70-130	3	20	
Benzo (b+j) fluoranthene	8.85	0.100 µg/L	8.89		100	70-130	3	20	
Benzo (g,h,i) perylene	4.29	0.050 µg/L	4.44		96	70-130	3	20	
Benzo (k) fluoranthene	4.52	0.050 µg/L	4.44		102	70-130	3	20	
Chrysene	4.46	0.050 µg/L	4.44		100	70-130	3	20	
Dibenz (a,h) anthracene	4.00	0.050 µg/L	4.44		90	70-130	4	20	
Fluoranthene	4.82	0.030 µg/L	4.44		108	70-130	2	20	
Fluorene	4.27	0.050 µg/L	4.44		96	70-130	2	20	
Indeno (1,2,3-cd) pyrene	4.17	0.050 µg/L	4.44		94	70-130	3	20	
Naphthalene	4.56	0.200 µg/L	4.44		103	70-130	5	20	
Phenanthrene	4.58	0.100 µg/L	4.44		103	70-130	1	20	
Pyrene	4.84	0.020 µg/L	4.44		109	70-130	3	20	
Quinoline	5.00	0.050 µg/L	4.44		112	70-130	3	20	
Surrogate: Acridine-d9	3.66	µg/L	4.44		82	60-130			
Surrogate: Naphthalene-d8	4.55	µg/L	4.44		102	60-130			
Surrogate: Perylene-d12	4.65	µg/L	4.44		105	60-130			

**Total Metals, Batch B7B0922**

<b>Blank (B7B0922-BLK1)</b>			Prepared: 2017-02-17, Analyzed: 2017-02-17						
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							

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**REPORTED TO PROJECT** Allterra Construction  
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**WORK ORDER REPORTED** 7021028  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B7B0922, Continued</b>									
<b>Blank (B7B0922-BLK1), Continued</b>					Prepared: 2017-02-17, Analyzed: 2017-02-17				
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							
<b>Matrix Spike (B7B0922-MS1)</b>					Source: 7021028-01 Prepared: 2017-02-17, Analyzed: 2017-02-17				
Antimony, total	0.437	0.0001 mg/L	0.400	0.0002	109	84-125			
Arsenic, total	0.211	0.0005 mg/L	0.200	< 0.0005	106	85-116			
Barium, total	1.06	0.005 mg/L	1.00	0.009	105	87-114			
Beryllium, total	0.113	0.0001 mg/L	0.100	< 0.0001	113	72-116			
Cadmium, total	0.106	0.00001 mg/L	0.100	< 0.00001	106	90-112			
Chromium, total	0.428	0.0005 mg/L	0.400	0.0020	106	89-120			
Cobalt, total	0.418	0.00005 mg/L	0.400	0.00044	104	88-120			
Copper, total	0.441	0.0002 mg/L	0.400	0.0034	109	88-125			
Iron, total	3.14	0.01 mg/L	2.00	1.02	106	88-119			
Lead, total	0.216	0.0001 mg/L	0.200	0.0006	108	89-118			
Manganese, total	0.428	0.0002 mg/L	0.400	0.0133	104	84-120			
Nickel, total	0.430	0.0002 mg/L	0.400	0.0018	107	87-119			
Selenium, total	0.113	0.0005 mg/L	0.100	< 0.0005	112	85-113			
Silver, total	0.114	0.00005 mg/L	0.100	< 0.00005	114	89-119			
Thallium, total	0.111	0.00002 mg/L	0.100	< 0.00002	111	92-119			
Vanadium, total	0.419	0.001 mg/L	0.400	0.003	104	87-117			
Zinc, total	1.08	0.004 mg/L	1.00	0.004	108	85-116			
<b>Reference (B7B0922-SRM1)</b>					Prepared: 2017-02-17, Analyzed: 2017-02-17				
Aluminum, total	0.316	0.005 mg/L	0.303		104	81-129			
Antimony, total	0.0569	0.0001 mg/L	0.0511		111	88-114			
Arsenic, total	0.123	0.0005 mg/L	0.118		105	88-114			
Barium, total	0.829	0.005 mg/L	0.823		101	72-104			
Beryllium, total	0.0556	0.0001 mg/L	0.0496		112	76-131			
Boron, total	3.58	0.004 mg/L	3.45		104	75-121			
Cadmium, total	0.0525	0.00001 mg/L	0.0495		106	89-111			
Calcium, total	12.3	0.2 mg/L	11.6		106	86-121			
Chromium, total	0.261	0.0005 mg/L	0.250		105	89-114			
Cobalt, total	0.0410	0.00005 mg/L	0.0377		109	91-113			
Copper, total	0.547	0.0002 mg/L	0.486		112	91-115			
Iron, total	0.54	0.01 mg/L	0.488		111	77-124			
Lead, total	0.216	0.0001 mg/L	0.204		106	92-113			
Lithium, total	0.457	0.0001 mg/L	0.403		113	85-115			
Magnesium, total	4.07	0.01 mg/L	3.79		108	78-120			
Manganese, total	0.113	0.0002 mg/L	0.109		103	90-114			
Molybdenum, total	0.214	0.0001 mg/L	0.198		108	90-111			
Nickel, total	0.270	0.0002 mg/L	0.249		108	90-111			
Phosphorus, total	0.21	0.02 mg/L	0.227		90	85-115			
Potassium, total	7.80	0.02 mg/L	7.21		108	84-113			
Selenium, total	0.139	0.0005 mg/L	0.121		115	85-115			
Sodium, total	8.10	0.02 mg/L	7.54		107	82-123			
Strontium, total	0.388	0.001 mg/L	0.375		103	88-112			
Thallium, total	0.0870	0.00002 mg/L	0.0805		108	91-114			
Uranium, total	0.0319	0.00002 mg/L	0.0306		104	85-120			
Vanadium, total	0.396	0.001 mg/L	0.386		103	86-111			
Zinc, total	2.67	0.004 mg/L	2.49		107	85-111			

**Total Metals, Batch B7B1002**

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Metals, Batch B7B1002, Continued</b>									
<b>Blank (B7B1002-BLK1)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Blank (B7B1002-BLK2)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Reference (B7B1002-SRM1)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Mercury, total	0.00506	0.00002 mg/L	0.00489		103	50-150			
<b>Reference (B7B1002-SRM2)</b>			Prepared: 2017-02-20, Analyzed: 2017-02-20						
Mercury, total	0.00482	0.00002 mg/L	0.00489		98	50-150			
<b>Volatile Organic Compounds (VOC), Batch B7B0910</b>									
<b>Blank (B7B0910-BLK1)</b>			Prepared: 2017-02-17, Analyzed: 2017-02-17						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 0.5	0.5 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Chloromethane	< 2.0	2.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.2	0.2 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L							
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Methylene chloride	< 3.0	3.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	26.0	µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.4	µg/L	25.0		102	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	20.9	µg/L	25.0		83	70-130			

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Volatile Organic Compounds (VOC), Batch B7B0910, Continued</b>									
<b>LCS (B7B0910-BS1)</b>					Prepared: 2017-02-17, Analyzed: 2017-02-17				
Benzene	23.8	0.5 µg/L	20.0		119	70-130			
Bromodichloromethane	23.1	1.0 µg/L	20.0		115	70-130			
Bromoform	21.0	1.0 µg/L	20.0		105	70-130			
Bromomethane	42.1	2.0 µg/L	20.0		211	70-130			SPK
Carbon tetrachloride	22.6	0.5 µg/L	20.0		113	70-130			
Chlorobenzene	24.0	1.0 µg/L	20.0		120	70-130			
Chloroethane	19.4	2.0 µg/L	20.0		97	70-130			
Chloroform	23.7	1.0 µg/L	20.0		118	70-130			
Chloromethane	20.5	2.0 µg/L	20.0		102	70-130			
Dibromochloromethane	21.8	1.0 µg/L	20.0		109	70-130			
1,2-Dibromoethane	22.2	0.2 µg/L	20.0		111	70-130			
Dibromomethane	22.5	1.0 µg/L	20.0		112	70-130			
1,2-Dichlorobenzene	22.8	0.5 µg/L	20.0		114	70-130			
1,3-Dichlorobenzene	22.4	1.0 µg/L	20.0		112	70-130			
1,4-Dichlorobenzene	23.2	1.0 µg/L	20.0		116	70-130			
1,1-Dichloroethane	24.0	1.0 µg/L	20.0		120	70-130			
1,2-Dichloroethane	23.5	1.0 µg/L	20.0		117	70-130			
1,1-Dichloroethene	22.8	1.0 µg/L	20.0		114	70-130			
cis-1,2-Dichloroethene	23.4	1.0 µg/L	20.0		117	70-130			
trans-1,2-Dichloroethene	22.6	1.0 µg/L	20.0		113	70-130			
1,2-Dichloropropane	23.7	1.0 µg/L	20.0		119	70-130			
cis-1,3-Dichloropropene	21.8	1.0 µg/L	20.0		109	70-130			
trans-1,3-Dichloropropene	20.7	1.0 µg/L	20.0		104	70-130			
Ethylbenzene	23.4	1.0 µg/L	20.0		117	70-130			
Methyl tert-butyl ether	17.4	1.0 µg/L	20.0		87	70-130			
Methylene chloride	21.8	3.0 µg/L	20.0		109	70-130			
Styrene	23.6	1.0 µg/L	20.0		118	70-130			
1,1,1,2-Tetrachloroethane	21.6	1.0 µg/L	20.0		108	70-130			
1,1,2,2-Tetrachloroethane	22.3	0.5 µg/L	20.0		111	70-130			
Tetrachloroethene	23.0	1.0 µg/L	20.0		115	70-130			
Toluene	23.9	1.0 µg/L	20.0		120	70-130			
1,1,1-Trichloroethane	23.3	1.0 µg/L	20.0		116	70-130			
1,1,2-Trichloroethane	23.5	1.0 µg/L	20.0		118	70-130			
Trichloroethene	21.7	1.0 µg/L	20.0		108	70-130			
Trichlorofluoromethane	21.6	1.0 µg/L	20.0		108	70-130			
Vinyl chloride	24.0	1.0 µg/L	20.0		120	70-130			
Xylenes (total)	69.0	2.0 µg/L	60.0		115	70-130			
Surrogate: Toluene-d8	26.9	µg/L	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	26.9	µg/L	25.0		108	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	29.9	µg/L	25.0		120	70-130			

**QC Qualifiers:**

SPK The recovery of this analyte was outside of established control limits.

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

		7021028-01	7021028-02
		Water	Water
		2017-02-16	2017-02-16
		1-Weir	2-SW1
Anions	Chloride (mg/L)	16.9	13.1
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.264	0.408
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	47.7	49.9
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	35	43
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	35	43
	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)	5	< 5
	Conductivity (EC) (uS/cm)	231	236
	pH (pH units)	7.68	7.61
	Solids, Total Dissolved (mg/L)	144	144
	Solids, Total Suspended (mg/L)	6	< 2
	Turbidity (NTU)	17.0	4.85
Calculated Parameters	Chromium, Trivalent (mg/L)	0.002	< 0.001
	Hardness, Total (as CaCO3) (mg/L)	80.3	89.9
Dissolved Metals	Aluminum, dissolved (mg/L)	0.007	< 0.005
	Antimony, dissolved (mg/L)	0.0002	0.0002
	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	0.014
	Cadmium, dissolved (mg/L)	< 0.00001	< 0.00001
	Calcium, dissolved (mg/L)	25.5	28.7
	Chromium, dissolved (mg/L)	< 0.0005	< 0.0005
	Cobalt, dissolved (mg/L)	< 0.00005	< 0.00005
	Copper, dissolved (mg/L)	0.0006	0.0007
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	< 0.0001	0.0001
	Magnesium, dissolved (mg/L)	4.07	4.40
	Manganese, dissolved (mg/L)	0.0006	0.0007
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0005	0.0006
	Nickel, dissolved (mg/L)	0.0003	0.0004
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	0.63	0.57
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	2.2	3.1
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

		7021028-01	7021028-02
		Water	Water
		2017-02-16	2017-02-16
		1-Weir	2-SW1
Dissolved Metals	Sodium, dissolved (mg/L)	10.2	7.97
	Strontium, dissolved (mg/L)	0.080	0.081
	Sulfur, dissolved (mg/L)	15	16
	Tellurium, dissolved (mg/L)	< 0.0002	< 0.0002
	Thallium, dissolved (mg/L)	< 0.00002	< 0.00002
	Thorium, dissolved (mg/L)	< 0.0001	< 0.0001
	Tin, dissolved (mg/L)	< 0.0002	< 0.0002
	Titanium, dissolved (mg/L)	< 0.005	< 0.005
	Uranium, dissolved (mg/L)	0.00021	0.00024
	Vanadium, dissolved (mg/L)	< 0.001	< 0.001
	Zinc, dissolved (mg/L)	< 0.004	< 0.004
	Zirconium, dissolved (mg/L)	< 0.0001	0.0002
Total Metals	Aluminum, total (mg/L)	0.985	0.226
	Antimony, total (mg/L)	0.0002	0.0002
	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)	0.026	0.026
	Cadmium, total (mg/L)	< 0.00001	< 0.00001
	Calcium, total (mg/L)	28.0	29.8
	Chromium, total (mg/L)	0.0020	0.0005
	Cobalt, total (mg/L)	0.00044	0.00016
	Copper, total (mg/L)	0.0034	0.0015
	Iron, total (mg/L)	1.02	0.23
	Lead, total (mg/L)	0.0006	0.0002
	Lithium, total (mg/L)	0.0007	0.0002
	Magnesium, total (mg/L)	4.56	4.59
	Manganese, total (mg/L)	0.0133	0.0042
	Mercury, total (mg/L)	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0006	0.0007
	Nickel, total (mg/L)	0.0018	0.0007
	Phosphorus, total (mg/L)	< 0.02	< 0.02
	Potassium, total (mg/L)	0.78	0.59
	Selenium, total (mg/L)	< 0.0005	< 0.0005
	Silicon, total (mg/L)	4.1	3.4
	Silver, total (mg/L)	< 0.00005	< 0.00005
	Sodium, total (mg/L)	11.0	8.37
	Strontium, total (mg/L)	0.084	0.080
	Sulfur, total (mg/L)	15	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)	0.054	0.011	

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

		7021028-01	7021028-02
		Water	Water
		2017-02-16	2017-02-16
		1-Weir	2-SW1
Total Metals	Uranium, total (mg/L)	0.00026	0.00025
	Vanadium, total (mg/L)	0.003	< 0.001
	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 (%)	82	77
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 (%)	75	79
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	< 0.050	< 0.050
	Acenaphthylene (ug/L)	< 0.200	< 0.200
	Acridine (ug/L)	< 0.050	< 0.050
	Anthracene (ug/L)	< 0.010	< 0.010
	Benz (a) anthracene (ug/L)	< 0.010	< 0.010
	Benzo (a) pyrene (ug/L)	< 0.010	< 0.010
	Benzo (b) fluoranthene (ug/L)	< 0.050	< 0.050
	Benzo (b+j) fluoranthene (ug/L)	< 0.100	< 0.100
	Benzo (g,h,i) perylene (ug/L)	< 0.050	< 0.050
	Benzo (k) fluoranthene (ug/L)	< 0.050	< 0.050
	Chrysene (ug/L)	< 0.050	< 0.050
	Dibenz (a,h) anthracene (ug/L)	< 0.050	< 0.050
	Fluoranthene (ug/L)	< 0.030	< 0.030
	Fluorene (ug/L)	< 0.050	< 0.050
	Indeno (1,2,3-cd) pyrene (ug/L)	< 0.050	< 0.050
	Naphthalene (ug/L)	< 0.200	< 0.200
	Phenanthrene (ug/L)	< 0.100	< 0.100
	Pyrene (ug/L)	< 0.020	< 0.020
	Quinoline (ug/L)	< 0.050	< 0.050
	Sur: Acridine-d9 (%)	84	77
	Sur: Naphthalene-d8 (%)	102	97
Sur: Perylene-d12 (%)	104	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

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

**WORK ORDER REPORTED** 7021028  
2017-02-24

		7021028-01	7021028-02
		Water	Water
		2017-02-16	2017-02-16
		1-Weir	2-SW1
Volatile Organic Compounds (VOC)	Dibromochloromethane (ug/L)	< 1.0	< 1.0
	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	104
	Sur: 4-Bromofluorobenzene (%)	94	97
Sur: 1,4-Dichlorobenzene-d4 (%)	73	74	



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: 5	CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	Number: 20171216-A Shipped via: Other

#	Sample Information	Analyses	Containers
#1	1-Weir (Template: 01) 02/16/2017 10:30 Grab / Water	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 Metals, total, All, Low +Cr6 (RMD) TAT: 5 Comments: CR 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	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) 02/16/2017 11:00 Grab / Water	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 Metals, total, All, Low +Cr6 (RMD) TAT: 5 Comments: CR 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	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

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: 5	CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	Number: 20171216-A Shipped via: Other

#	Sample Information	Analyses	Containers
#1	1-Weir (Template: 01) 02/16/2017 10:30 Grab / Water	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 Metals, total, All, Low +Cr6 (RMD) TAT: 5 Comments: CR 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	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) 02/16/2017 11:00 Grab / Water	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 Metals, total, All, Low +Cr6 (RMD) TAT: 5 Comments: CR 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	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)



Time	Accepted by	Date/Time
	OTHER TL	02/17
	8.10C	11:00