

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

TEL (250) 508-0726
FAX

ATTENTION Rahim Gaidhar

WORK ORDER 6101528

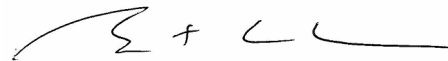
PO NUMBER P15-06 SIRM
PROJECT SIRM 460 Stebbings
PROJECT INFO

RECEIVED / TEMP 2016-10-24 09:00 / 10°C
REPORTED 2016-10-31
COC NUMBER B33080

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:

Brent Coates, B.Sc.
Division Manager, Richmond

***If you have any questions or concerns, please contact your Account Manager:
Bryan Shaw, Ph.D. (bshaw@caro.ca)***

Locations:

#110 4011 Viking Way
Richmond, BC V6V 2K9
Tel: 604-279-1499 Fax: 604-279-1599

#102 3677 Highway 97N
Kelowna, BC V1X 5C3
Tel: 250-765-9646 Fax: 250-765-3893

17225 109 Avenue
Edmonton, AB T5S 1H7
Tel: 780-489-9100 Fax: 780-489-9700

www.caro.ca

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Analysis Description	Method Reference	Technique	Location
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Glycols in Water	EPA 8015B*	Gas Chromatography (GC-FID)	Richmond
Hardness (as CaCO3) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Hardness (as CaCO3) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitrite by Colorimetry in Water	APHA 4500-NO2 B	Colorimetry	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	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 / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Weir (6101528-01) [Water] Sampled: 2016-10-21 16:45

Anions

Chloride	60.8	± 2.8	0.10	mg/L	N/A	2016-10-29	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-10-29	
Nitrate (as N)	0.489	± 0.061	0.010	mg/L	N/A	2016-10-29	HT1
Nitrite (as N)	< 0.005		0.005	mg/L	N/A	2016-10-24	
Sulfate	88.7	± 10.5	1.0	mg/L	N/A	2016-10-29	

General Parameters

Alkalinity, Total (as CaCO3)	43	± 3	1	mg/L	N/A	2016-10-27	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Alkalinity, Bicarbonate (as CaCO3)	43	± 2	1	mg/L	N/A	2016-10-27	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Colour, True	< 5		5	CU	N/A	2016-10-24	
Conductivity (EC)	514	± 8	2	µS/cm	N/A	2016-10-27	
pH	7.65	± 0.02	0.01	pH units	N/A	2016-10-27	HT2
Solids, Total Dissolved	330	± 31	10	mg/L	N/A	2016-10-27	
Solids, Total Suspended	46	± 4	2	mg/L	N/A	2016-10-26	
Turbidity	194	± 24	0.10	NTU	N/A	2016-10-24	

Calculated Parameters

Hardness, Total (as CaCO3)	160		0.50	mg/L	N/A	N/A	
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Dissolved Metals

Aluminum, dissolved	0.012	± 0.003	0.005	mg/L	N/A	2016-10-29	
Antimony, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-10-29	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-29	
Barium, dissolved	0.012	± 0.002	0.005	mg/L	N/A	2016-10-29	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Boron, dissolved	0.029	± 0.006	0.004	mg/L	N/A	2016-10-29	
Cadmium, dissolved	0.00002	± 0.00001	0.00001	mg/L	N/A	2016-10-29	
Calcium, dissolved	49.2	± 8.4	0.2	mg/L	N/A	2016-10-29	
Chromium, dissolved	0.0005	± 0.0001	0.0005	mg/L	N/A	2016-10-29	
Cobalt, dissolved	0.00010	± 0.00002	0.00005	mg/L	N/A	2016-10-29	
Copper, dissolved	0.0007	± 0.0003	0.0002	mg/L	N/A	2016-10-29	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-29	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-10-29	
Magnesium, dissolved	9.01	± 1.61	0.01	mg/L	N/A	2016-10-29	
Manganese, dissolved	0.0302	± 0.0038	0.0002	mg/L	N/A	2016-10-29	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-30	2016-10-30	
Molybdenum, dissolved	0.0007	± 0.0001	0.0001	mg/L	N/A	2016-10-29	
Nickel, dissolved	0.0008	± 0.0002	0.0002	mg/L	N/A	2016-10-29	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-29	
Potassium, dissolved	1.45	± 0.22	0.02	mg/L	N/A	2016-10-29	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-29	

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Sample ID: Weir (6101528-01) [Water] Sampled: 2016-10-21 16:45, Continued

Dissolved Metals, Continued

Silicon, dissolved	2.7	± 1.4	0.5	mg/L	N/A	2016-10-29	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-29	
Sodium, dissolved	34.1	± 5.8	0.02	mg/L	N/A	2016-10-29	
Strontium, dissolved	0.201	± 0.023	0.001	mg/L	N/A	2016-10-29	
Sulfur, dissolved	34	± 320	1	mg/L	N/A	2016-10-29	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-29	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-29	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-29	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-29	
Uranium, dissolved	0.00042	± 0.00006	0.00002	mg/L	N/A	2016-10-29	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-29	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-29	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	

Total Metals

Aluminum, total	7.56	± 1.38	0.005	mg/L	2016-10-28	2016-10-28	
Antimony, total	0.0004	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Arsenic, total	0.0017	± 0.0002	0.0005	mg/L	2016-10-28	2016-10-28	
Barium, total	0.060	± 0.009	0.005	mg/L	2016-10-28	2016-10-28	
Beryllium, total	0.0002	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-28	2016-10-28	
Boron, total	0.041	± 0.008	0.004	mg/L	2016-10-28	2016-10-28	
Cadmium, total	0.00015	± 0.00002	0.00001	mg/L	2016-10-28	2016-10-28	
Calcium, total	55.7	± 6.5	0.2	mg/L	2016-10-28	2016-10-28	
Chromium, total	0.0153	± 0.0021	0.0005	mg/L	2016-10-28	2016-10-28	
Cobalt, total	0.00436	± 0.00040	0.00005	mg/L	2016-10-28	2016-10-28	
Copper, total	0.0157	± 0.0018	0.0002	mg/L	2016-10-28	2016-10-28	
Iron, total	8.43	± 1.66	0.01	mg/L	2016-10-28	2016-10-28	
Lead, total	0.0049	± 0.0004	0.0001	mg/L	2016-10-28	2016-10-28	
Lithium, total	0.0043	± 0.0007	0.0001	mg/L	2016-10-28	2016-10-28	
Magnesium, total	11.3	± 1.6	0.01	mg/L	2016-10-28	2016-10-28	
Manganese, total	0.164	± 0.015	0.0002	mg/L	2016-10-28	2016-10-28	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-30	2016-10-31	
Molybdenum, total	0.0009	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Nickel, total	0.0123	± 0.0012	0.0002	mg/L	2016-10-28	2016-10-28	
Phosphorus, total	0.20	± 1.30	0.02	mg/L	2016-10-28	2016-10-28	
Potassium, total	2.52	± 0.27	0.02	mg/L	2016-10-28	2016-10-28	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-28	2016-10-28	
Silicon, total	18.2	± 6.6	0.5	mg/L	2016-10-28	2016-10-28	
Silver, total	0.00057	± 0.00057	0.00005	mg/L	2016-10-28	2016-10-28	
Sodium, total	33.8	± 4.8	0.02	mg/L	2016-10-28	2016-10-28	
Strontium, total	0.227	± 0.020	0.001	mg/L	2016-10-28	2016-10-28	
Sulfur, total	30	± 55	1	mg/L	2016-10-28	2016-10-28	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-28	2016-10-28	
Thallium, total	0.00014	± 0.00002	0.00002	mg/L	2016-10-28	2016-10-28	

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Sample ID: Weir (6101528-01) [Water] Sampled: 2016-10-21 16:45, Continued

Total Metals, Continued

Thorium, total	0.0003	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Tin, total	0.0003	± 0.0001	0.0002	mg/L	2016-10-28	2016-10-28	
Titanium, total	0.452	± 0.061	0.005	mg/L	2016-10-28	2016-10-28	
Uranium, total	0.00070	± 0.00005	0.00002	mg/L	2016-10-28	2016-10-28	
Vanadium, total	0.022	± 0.003	0.001	mg/L	2016-10-28	2016-10-28	
Zinc, total	0.023	± 0.004	0.004	mg/L	2016-10-28	2016-10-28	
Zirconium, total	0.0029	± 0.0006	0.0001	mg/L	2016-10-28	2016-10-28	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-10-26	2016-10-27	
EPHw19-32	< 250		250	µg/L	2016-10-26	2016-10-27	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	95		60-140	%	2016-10-26	2016-10-27	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Surrogate: Tetramethylene Glycol	104		66-125	%	N/A	2016-10-31	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-26	2016-10-27	
Acridine	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Anthracene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Chrysene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-26	2016-10-27	
Fluorene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Naphthalene	< 0.20		0.20	µg/L	2016-10-26	2016-10-27	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Pyrene	< 0.02		0.02	µg/L	2016-10-26	2016-10-27	
Quinoline	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Surrogate: Acridine-d9	47		60-130	%	2016-10-26	2016-10-27	S02
Surrogate: Naphthalene-d8	93		60-130	%	2016-10-26	2016-10-27	
Surrogate: Perylene-d12	102		60-130	%	2016-10-26	2016-10-27	

Volatile Organic Compounds (VOC)

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-25	
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Sample ID: Weir (6101528-01) [Water] Sampled: 2016-10-21 16:45, Continued

Volatile Organic Compounds (VOC), Continued

Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-25	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-25	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-25	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-25	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-25	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-25	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-25	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-25	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-25	
Surrogate: Toluene-d8	98		70-130	%	N/A	2016-10-25	
Surrogate: 4-Bromofluorobenzene	87		70-130	%	N/A	2016-10-25	
Surrogate: 1,4-Dichlorobenzene-d4	101		70-130	%	N/A	2016-10-25	

Sample ID: SW-1 (6101528-02) [Water] Sampled: 2016-10-21 17:00

Anions

Chloride	74.1 ± 3.4		0.10	mg/L	N/A	2016-10-29	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-10-29	

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Sample ID: SW-1 (6101528-02) [Water] Sampled: 2016-10-21 17:00, Continued

Anions, Continued

Nitrate (as N)	0.936	± 0.117	0.010	mg/L	N/A	2016-10-29	HT1
Nitrite (as N)	< 0.005		0.005	mg/L	N/A	2016-10-24	
Sulfate	141	± 17	1.0	mg/L	N/A	2016-10-29	

General Parameters

Alkalinity, Total (as CaCO3)	59	± 3	1	mg/L	N/A	2016-10-27	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Alkalinity, Bicarbonate (as CaCO3)	59	± 3	1	mg/L	N/A	2016-10-27	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-10-27	
Colour, True	< 5		5	CU	N/A	2016-10-24	
Conductivity (EC)	692	± 11	2	µS/cm	N/A	2016-10-27	
pH	7.63	± 0.02	0.01	pH units	N/A	2016-10-27	HT2
Solids, Total Dissolved	410	± 38	10	mg/L	N/A	2016-10-27	
Solids, Total Suspended	21	± 2	2	mg/L	N/A	2016-10-26	
Turbidity	21.7	± 2.7	0.10	NTU	N/A	2016-10-24	

Calculated Parameters

Hardness, Total (as CaCO3)	236		0.50	mg/L	N/A	N/A	
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Dissolved Metals

Aluminum, dissolved	0.076	± 0.017	0.005	mg/L	N/A	2016-10-29	
Antimony, dissolved	0.0004	± 0.0001	0.0001	mg/L	N/A	2016-10-29	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-29	
Barium, dissolved	0.020	± 0.003	0.005	mg/L	N/A	2016-10-29	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Boron, dissolved	0.038	± 0.008	0.004	mg/L	N/A	2016-10-29	
Cadmium, dissolved	0.00001	± 0.00001	0.00001	mg/L	N/A	2016-10-29	
Calcium, dissolved	72.5	± 12.4	0.2	mg/L	N/A	2016-10-29	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-10-29	
Cobalt, dissolved	0.00014	± 0.00002	0.00005	mg/L	N/A	2016-10-29	
Copper, dissolved	0.0014	± 0.0004	0.0002	mg/L	N/A	2016-10-29	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-10-29	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Lithium, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-10-29	
Magnesium, dissolved	13.3	± 2.4	0.01	mg/L	N/A	2016-10-29	
Manganese, dissolved	0.0163	± 0.0021	0.0002	mg/L	N/A	2016-10-29	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-10-30	2016-10-30	
Molybdenum, dissolved	0.0015	± 0.0002	0.0001	mg/L	N/A	2016-10-29	
Nickel, dissolved	0.0012	± 0.0003	0.0002	mg/L	N/A	2016-10-29	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-10-29	
Potassium, dissolved	2.07	± 0.32	0.02	mg/L	N/A	2016-10-29	
Selenium, dissolved	0.0005	± 0.0002	0.0005	mg/L	N/A	2016-10-29	
Silicon, dissolved	4.5	± 2.3	0.5	mg/L	N/A	2016-10-29	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-10-29	

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Sample ID: SW-1 (6101528-02) [Water] Sampled: 2016-10-21 17:00, Continued

Dissolved Metals, Continued

Sodium, dissolved	40.1	± 6.8	0.02	mg/L	N/A	2016-10-29	
Strontium, dissolved	0.275	± 0.031	0.001	mg/L	N/A	2016-10-29	
Sulfur, dissolved	53	± 494	1	mg/L	N/A	2016-10-29	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-29	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-10-29	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-10-29	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-10-29	
Uranium, dissolved	0.00066	± 0.00009	0.00002	mg/L	N/A	2016-10-29	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-10-29	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-10-29	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-10-29	

Total Metals

Aluminum, total	1.28	± 0.23	0.005	mg/L	2016-10-28	2016-10-28	
Antimony, total	0.0005	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-10-28	2016-10-28	
Barium, total	0.029	± 0.004	0.005	mg/L	2016-10-28	2016-10-28	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-10-28	2016-10-28	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-10-28	2016-10-28	
Boron, total	0.043	± 0.009	0.004	mg/L	2016-10-28	2016-10-28	
Cadmium, total	0.00005	± 0.00002	0.00001	mg/L	2016-10-28	2016-10-28	
Calcium, total	74.8	± 8.7	0.2	mg/L	2016-10-28	2016-10-28	
Chromium, total	0.0033	± 0.0005	0.0005	mg/L	2016-10-28	2016-10-28	
Cobalt, total	0.00089	± 0.00008	0.00005	mg/L	2016-10-28	2016-10-28	
Copper, total	0.0041	± 0.0005	0.0002	mg/L	2016-10-28	2016-10-28	
Iron, total	1.43	± 0.28	0.01	mg/L	2016-10-28	2016-10-28	
Lead, total	0.0010	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Lithium, total	0.0009	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Magnesium, total	12.4	± 1.8	0.01	mg/L	2016-10-28	2016-10-28	
Manganese, total	0.0427	± 0.0039	0.0002	mg/L	2016-10-28	2016-10-28	
Mercury, total	< 0.00002		0.00002	mg/L	2016-10-30	2016-10-31	
Molybdenum, total	0.0013	± 0.0001	0.0001	mg/L	2016-10-28	2016-10-28	
Nickel, total	0.0029	± 0.0003	0.0002	mg/L	2016-10-28	2016-10-28	
Phosphorus, total	0.02	± 0.14	0.02	mg/L	2016-10-28	2016-10-28	
Potassium, total	2.10	± 0.23	0.02	mg/L	2016-10-28	2016-10-28	
Selenium, total	< 0.0005		0.0005	mg/L	2016-10-28	2016-10-28	
Silicon, total	5.9	± 2.2	0.5	mg/L	2016-10-28	2016-10-28	
Silver, total	0.00009	± 0.00016	0.00005	mg/L	2016-10-28	2016-10-28	
Sodium, total	36.9	± 5.2	0.02	mg/L	2016-10-28	2016-10-28	
Strontium, total	0.277	± 0.024	0.001	mg/L	2016-10-28	2016-10-28	
Sulfur, total	48	± 86	1	mg/L	2016-10-28	2016-10-28	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-10-28	2016-10-28	
Thallium, total	0.00003		0.00002	mg/L	2016-10-28	2016-10-28	
Thorium, total	< 0.0001		0.0001	mg/L	2016-10-28	2016-10-28	
Tin, total	< 0.0002		0.0002	mg/L	2016-10-28	2016-10-28	

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Sample ID: SW-1 (6101528-02) [Water] Sampled: 2016-10-21 17:00, Continued

Total Metals, Continued

Titanium, total	0.082	± 0.011	0.005	mg/L	2016-10-28	2016-10-28	
Uranium, total	0.00076	± 0.00005	0.00002	mg/L	2016-10-28	2016-10-28	
Vanadium, total	0.005	± 0.001	0.001	mg/L	2016-10-28	2016-10-28	
Zinc, total	0.006	± 0.002	0.004	mg/L	2016-10-28	2016-10-28	
Zirconium, total	0.0009	± 0.0002	0.0001	mg/L	2016-10-28	2016-10-28	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-10-26	2016-10-27	
EPHw19-32	< 250		250	µg/L	2016-10-26	2016-10-27	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	94		60-140	%	2016-10-26	2016-10-27	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Ethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Diethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Triethylene glycol	< 5		5	mg/L	N/A	2016-10-31	
Surrogate: Tetramethylene Glycol	104		66-125	%	N/A	2016-10-31	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Acenaphthylene	< 0.20		0.20	µg/L	2016-10-26	2016-10-27	
Acridine	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Anthracene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-10-26	2016-10-27	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Chrysene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Fluoranthene	< 0.03		0.03	µg/L	2016-10-26	2016-10-27	
Fluorene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-10-26	2016-10-27	
Naphthalene	< 0.20		0.20	µg/L	2016-10-26	2016-10-27	
Phenanthrene	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Pyrene	< 0.02		0.02	µg/L	2016-10-26	2016-10-27	
Quinoline	< 0.10		0.10	µg/L	2016-10-26	2016-10-27	
Surrogate: Acridine-d9	56		60-130	%	2016-10-26	2016-10-27	S02
Surrogate: Naphthalene-d8	97		60-130	%	2016-10-26	2016-10-27	
Surrogate: Perylene-d12	106		60-130	%	2016-10-26	2016-10-27	

Volatile Organic Compounds (VOC)

Benzene	< 0.5		0.5	µg/L	N/A	2016-10-25	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-10-25	

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Sample ID: SW-1 (6101528-02) [Water] Sampled: 2016-10-21 17:00, Continued

Volatile Organic Compounds (VOC), Continued

Bromomethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-10-25	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-10-25	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-10-25	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-10-25	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-10-25	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-25	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-10-25	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-10-25	
Styrene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Toluene	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-10-25	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-10-25	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-10-25	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-10-25	
Surrogate: Toluene-d8	97		70-130	%	N/A	2016-10-25	
Surrogate: 4-Bromofluorobenzene	84		70-130	%	N/A	2016-10-25	
Surrogate: 1,4-Dichlorobenzene-d4	98		70-130	%	N/A	2016-10-25	

Sample / Analysis Qualifiers:

HT1 The sample was prepared and/or analyzed past the recommended holding time.
 HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
 S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

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

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

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

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Anions, Batch B6J1505									
Blank (B6J1505-BLK1)			Prepared: 2016-10-24, Analyzed: 2016-10-24						
Nitrite (as N)	< 0.005	0.005 mg/L							
LCS (B6J1505-BS1)			Prepared: 2016-10-24, Analyzed: 2016-10-24						
Nitrite (as N)	0.050	0.005 mg/L	0.0500		99	90-110			
Duplicate (B6J1505-DUP1)			Source: 6101528-01 Prepared: 2016-10-24, Analyzed: 2016-10-24						
Nitrite (as N)	< 0.005	0.005 mg/L		< 0.005				20	
Matrix Spike (B6J1505-MS1)			Source: 6101528-02 Prepared: 2016-10-24, Analyzed: 2016-10-24						
Nitrite (as N)	0.040	0.005 mg/L	0.0500	< 0.005	81	80-120			
Anions, Batch B6J1848									
Blank (B6J1848-BLK1)			Prepared: 2016-10-28, Analyzed: 2016-10-28						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B6J1848-BLK2)			Prepared: 2016-10-28, Analyzed: 2016-10-28						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B6J1848-BS1)			Prepared: 2016-10-28, Analyzed: 2016-10-28						
Chloride	16.1	0.10 mg/L	16.0		100	90-110			
Fluoride	3.81	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	4.17	0.010 mg/L	4.00		104	93-108			
Sulfate	15.8	1.0 mg/L	16.0		99	91-109			
LCS (B6J1848-BS2)			Prepared: 2016-10-28, Analyzed: 2016-10-28						
Chloride	16.0	0.10 mg/L	16.0		100	90-110			

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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Anions, Batch B6J1848, Continued

LCS (B6J1848-BS2), Continued

Prepared: 2016-10-28, Analyzed: 2016-10-28

Fluoride	3.88	0.10 mg/L	4.00		97	88-108			
Nitrate (as N)	4.17	0.010 mg/L	4.00		104	93-108			
Sulfate	16.0	1.0 mg/L	16.0		100	91-109			

BCMOE Aggregate Hydrocarbons, Batch B6J1724

Blank (B6J1724-BLK1)

Prepared: 2016-10-26, Analyzed: 2016-10-27

EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane	390	µg/L	444		88	60-140			

LCS (B6J1724-BS2)

Prepared: 2016-10-26, Analyzed: 2016-10-27

EPHw10-19	16900	250 µg/L	15500		109	70-130			
EPHw19-32	19400	250 µg/L	22200		87	70-130			
Surrogate: 2-Methylnonane	491	µg/L	444		110	60-140			

Dissolved Metals, Batch B6J1952

Blank (B6J1952-BLK1)

Prepared: 2016-10-29, Analyzed: 2016-10-29

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							

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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 B6J1952, Continued

Duplicate (B6J1952-DUP1)	Source: 6101528-02		Prepared: 2016-10-29, Analyzed: 2016-10-29						
Aluminum, dissolved	0.006	0.005 mg/L		0.076			173	11	
Antimony, dissolved	0.0004	0.0001 mg/L		0.0004				44	
Arsenic, dissolved	< 0.0005	0.0005 mg/L		< 0.0005				8	
Barium, dissolved	0.021	0.005 mg/L		0.020				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	0.040	0.004 mg/L		0.038			4	13	
Cadmium, dissolved	0.00003	0.00001 mg/L		0.00001				27	
Calcium, dissolved	71.8	0.2 mg/L		72.5			1	8	
Chromium, dissolved	< 0.0005	0.0005 mg/L		0.0005				14	
Cobalt, dissolved	0.00014	0.00005 mg/L		0.00014				10	
Copper, dissolved	0.0013	0.0002 mg/L		0.0014			1	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	0.0003	0.0001 mg/L		0.0003				14	
Magnesium, dissolved	13.4	0.01 mg/L		13.3			< 1	6	
Manganese, dissolved	0.0162	0.0002 mg/L		0.0163			< 1	9	
Molybdenum, dissolved	0.0015	0.0001 mg/L		0.0015			2	19	
Nickel, dissolved	0.0011	0.0002 mg/L		0.0012			3	21	
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02				14	
Potassium, dissolved	2.10	0.02 mg/L		2.07			1	8	
Selenium, dissolved	0.0005	0.0005 mg/L		0.0005				36	
Silicon, dissolved	4.4	0.5 mg/L		4.5			3	12	
Silver, dissolved	0.00053	0.00005 mg/L		< 0.00005				20	
Sodium, dissolved	40.3	0.02 mg/L		40.1			< 1	6	
Strontium, dissolved	0.273	0.001 mg/L		0.275			< 1	6	
Sulfur, dissolved	55	1 mg/L		53			4	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	0.00064	0.00002 mg/L		0.00066			2	14	
Vanadium, dissolved	< 0.001	0.001 mg/L		< 0.001				20	
Zinc, dissolved	< 0.004	0.004 mg/L		0.004				11	
Zirconium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001				36	

Matrix Spike (B6J1952-MS1)	Source: 6101528-01		Prepared: 2016-10-29, Analyzed: 2016-10-29						
Antimony, dissolved	0.343	0.0001 mg/L	0.400	0.0003	86	76-114			
Arsenic, dissolved	0.189	0.0005 mg/L	0.200	< 0.0005	94	81-115			
Barium, dissolved	0.875	0.005 mg/L	1.00	0.012	86	80-113			
Beryllium, dissolved	0.0888	0.0001 mg/L	0.100	< 0.0001	89	69-109			
Cadmium, dissolved	0.0881	0.00001 mg/L	0.100	0.00002	88	83-110			
Chromium, dissolved	0.363	0.0005 mg/L	0.400	0.0005	91	85-115			
Cobalt, dissolved	0.362	0.00005 mg/L	0.400	0.00010	91	86-114			
Copper, dissolved	0.370	0.0002 mg/L	0.400	0.0007	92	82-119			
Iron, dissolved	1.92	0.010 mg/L	2.00	< 0.010	96	80-116			
Lead, dissolved	0.177	0.0001 mg/L	0.200	< 0.0001	88	83-112			
Manganese, dissolved	0.393	0.0002 mg/L	0.400	0.0302	91	62-131			
Nickel, dissolved	0.367	0.0002 mg/L	0.400	0.0008	92	81-115			
Selenium, dissolved	0.0933	0.0005 mg/L	0.100	< 0.0005	93	79-115			
Silver, dissolved	0.0800	0.00005 mg/L	0.100	< 0.00005	80	69-121			
Thallium, dissolved	0.0879	0.00002 mg/L	0.100	< 0.00002	88	84-115			
Vanadium, dissolved	0.353	0.001 mg/L	0.400	< 0.001	88	83-113			
Zinc, dissolved	0.950	0.004 mg/L	1.00	< 0.004	95	82-115			

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Dissolved Metals, Batch B6J1952, Continued									
Reference (B6J1952-SRM1)					Prepared: 2016-10-29, Analyzed: 2016-10-29				
Aluminum, dissolved	0.234	0.005 mg/L	0.233		100	58-142			
Antimony, dissolved	0.0425	0.0001 mg/L	0.0430		99	75-125			
Arsenic, dissolved	0.440	0.0005 mg/L	0.438		100	81-119			
Barium, dissolved	3.05	0.005 mg/L	3.35		91	83-117			
Beryllium, dissolved	0.216	0.0001 mg/L	0.213		101	80-120			
Boron, dissolved	1.65	0.004 mg/L	1.74		95	74-117			
Cadmium, dissolved	0.208	0.00001 mg/L	0.224		93	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	0.845	0.0002 mg/L	0.844		100	84-116			
Iron, dissolved	1.30	0.010 mg/L	1.29		101	74-126			
Lead, dissolved	0.107	0.0001 mg/L	0.112		96	72-128			
Lithium, dissolved	0.104	0.0001 mg/L	0.104		100	60-140			
Magnesium, dissolved	7.17	0.01 mg/L	6.92		104	81-119			
Manganese, dissolved	0.337	0.0002 mg/L	0.345		98	84-116			
Molybdenum, dissolved	0.414	0.0001 mg/L	0.426		97	83-117			
Nickel, dissolved	0.843	0.0002 mg/L	0.840		100	74-126			
Phosphorus, dissolved	0.52	0.02 mg/L	0.495		105	68-132			
Potassium, dissolved	3.33	0.02 mg/L	3.19		104	74-126			
Selenium, dissolved	0.0336	0.0005 mg/L	0.0331		102	70-130			
Sodium, dissolved	19.8	0.02 mg/L	19.1		104	72-128			
Strontium, dissolved	0.848	0.001 mg/L	0.916		93	84-113			
Thallium, dissolved	0.0370	0.00002 mg/L	0.0393		94	57-143			
Uranium, dissolved	0.237	0.00002 mg/L	0.266		89	85-115			
Vanadium, dissolved	0.832	0.001 mg/L	0.869		96	87-113			
Zinc, dissolved	0.884	0.004 mg/L	0.881		100	72-128			

Dissolved Metals, Batch B6J2015

Blank (B6J2015-BLK1)					Prepared: 2016-10-30, Analyzed: 2016-10-30				
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Reference (B6J2015-SRM1)					Prepared: 2016-10-30, Analyzed: 2016-10-30				
Mercury, dissolved	0.00512	0.00002 mg/L	0.00486		105	50-150			

General Parameters, Batch B6J1520

Blank (B6J1520-BLK1)					Prepared: 2016-10-24, Analyzed: 2016-10-24				
Turbidity	< 0.10	0.10 NTU							
LCS (B6J1520-BS1)					Prepared: 2016-10-24, Analyzed: 2016-10-24				
Turbidity	9.69	0.10 NTU	10.0		97	82-115			
Duplicate (B6J1520-DUP1)					Source: 6101528-02 Prepared: 2016-10-24, Analyzed: 2016-10-24				
Turbidity	22.7	0.10 NTU	21.7		5	18			

General Parameters, Batch B6J1671

Blank (B6J1671-BLK1)					Prepared: 2016-10-26, Analyzed: 2016-10-26				
Solids, Total Suspended	< 1	2 mg/L							
Blank (B6J1671-BLK2)					Prepared: 2016-10-26, Analyzed: 2016-10-26				
Solids, Total Suspended	< 1	2 mg/L							

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General Parameters, Batch B6J1671, Continued									
LCS (B6J1671-BS1)			Prepared: 2016-10-26, Analyzed: 2016-10-26						
Solids, Total Suspended	51	2 mg/L	50.0		102	85-110			
LCS (B6J1671-BS2)			Prepared: 2016-10-26, Analyzed: 2016-10-26						
Solids, Total Suspended	51	2 mg/L	50.0		102	85-110			
General Parameters, Batch B6J1718									
Blank (B6J1718-BLK1)			Prepared: 2016-10-26, Analyzed: 2016-10-26						
Colour, True	< 5	5 CU							
LCS (B6J1718-BS1)			Prepared: 2016-10-26, Analyzed: 2016-10-26						
Colour, True	11	5 CU	10.0		108	85-115			
General Parameters, Batch B6J1787									
Blank (B6J1787-BLK1)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
Alkalinity, Total (as CaCO ₃)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
LCS (B6J1787-BS1)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
Alkalinity, Total (as CaCO ₃)	104	1 mg/L	100		104	96-108			
LCS (B6J1787-BS2)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
Conductivity (EC)	1400	2 µS/cm	1410		100	95-104			
Reference (B6J1787-SRM1)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
pH	6.95	0.01 pH units	7.00		99	98-102			
General Parameters, Batch B6J1832									
Blank (B6J1832-BLK1)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
Solids, Total Dissolved	< 10	10 mg/L							
LCS (B6J1832-BS1)			Prepared: 2016-10-27, Analyzed: 2016-10-27						
Solids, Total Dissolved	235	10 mg/L	240		98	80-120			
Glycols, Batch B6J2029									
Blank (B6J2029-BLK1)			Prepared: 2016-10-31, Analyzed: 2016-10-31						
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	91.5	mg/L	95.6		96	66-125			
LCS (B6J2029-BS1)			Prepared: 2016-10-31, Analyzed: 2016-10-31						
Propylene glycol	45	5 mg/L	50.0		91	71-114			
Ethylene glycol	47	5 mg/L	49.9		95	82-124			
Diethylene glycol	49	5 mg/L	50.0		98	80-116			
Triethylene glycol	49	5 mg/L	49.8		99	73-120			
Surrogate: Tetramethylene Glycol	96.4	mg/L	95.6		101	66-125			

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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 B6J2029, Continued

LCS Dup (B6J2029-BSD1)

Prepared: 2016-10-31, Analyzed: 2016-10-31

Propylene glycol	49	5 mg/L	50.0		97	71-114	7	20	
Ethylene glycol	52	5 mg/L	49.9		105	82-124	10	20	
Diethylene glycol	54	5 mg/L	50.0		108	80-116	10	20	
Triethylene glycol	54	5 mg/L	49.8		109	73-120	10	20	
Surrogate: Tetramethylene Glycol	103	mg/L	95.6		108	66-125			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J1724

Blank (B6J1724-BLK1)

Prepared: 2016-10-26, Analyzed: 2016-10-27

Acenaphthene	< 0.05	0.05 µg/L							
Acenaphthylene	< 0.20	0.20 µg/L							
Acridine	< 0.10	0.10 µg/L							
Anthracene	< 0.01	0.01 µg/L							
Benz (a) anthracene	< 0.01	0.01 µg/L							
Benzo (a) pyrene	< 0.01	0.01 µg/L							
Benzo (b) fluoranthene	< 0.05	0.05 µg/L							
Benzo (g,h,i) perylene	< 0.05	0.05 µg/L							
Benzo (k) fluoranthene	< 0.05	0.05 µg/L							
Chrysene	< 0.05	0.05 µg/L							
Dibenz (a,h) anthracene	< 0.05	0.05 µg/L							
Fluoranthene	< 0.03	0.03 µg/L							
Fluorene	< 0.05	0.05 µg/L							
Indeno (1,2,3-cd) pyrene	< 0.05	0.05 µg/L							
Naphthalene	< 0.20	0.20 µg/L							
Phenanthrene	< 0.10	0.10 µg/L							
Pyrene	< 0.02	0.02 µg/L							
Quinoline	< 0.10	0.10 µg/L							
Surrogate: Acridine-d9	2.53	µg/L	4.44		57	60-130			S02
Surrogate: Naphthalene-d8	4.06	µg/L	4.44		91	60-130			
Surrogate: Perylene-d12	4.47	µg/L	4.44		101	60-130			

LCS (B6J1724-BS1)

Prepared: 2016-10-26, Analyzed: 2016-10-27

Acenaphthene	4.41	0.05 µg/L	4.44		99	70-130			
Acenaphthylene	4.40	0.20 µg/L	4.44		99	70-130			
Acridine	3.94	0.10 µg/L	4.44		89	60-130			
Anthracene	4.43	0.01 µg/L	4.44		100	70-130			
Benz (a) anthracene	4.63	0.01 µg/L	4.44		104	70-130			
Benzo (a) pyrene	4.74	0.01 µg/L	4.44		107	70-130			
Benzo (b) fluoranthene	4.55	0.05 µg/L	4.44		102	70-130			
Benzo (g,h,i) perylene	5.14	0.05 µg/L	4.44		116	70-130			
Benzo (k) fluoranthene	4.59	0.05 µg/L	4.44		103	70-130			
Chrysene	4.60	0.05 µg/L	4.44		103	70-130			
Dibenz (a,h) anthracene	4.80	0.05 µg/L	4.44		108	70-130			
Fluoranthene	4.95	0.03 µg/L	4.44		111	70-130			
Fluorene	4.17	0.05 µg/L	4.44		94	70-130			
Indeno (1,2,3-cd) pyrene	4.99	0.05 µg/L	4.44		112	70-130			
Naphthalene	4.65	0.20 µg/L	4.44		105	70-130			
Phenanthrene	4.66	0.10 µg/L	4.44		105	70-130			
Pyrene	5.01	0.02 µg/L	4.44		113	70-130			
Quinoline	4.95	0.10 µg/L	4.44		111	70-130			
Surrogate: Acridine-d9	2.50	µg/L	4.44		56	60-130			S02
Surrogate: Naphthalene-d8	4.46	µg/L	4.44		100	60-130			
Surrogate: Perylene-d12	4.78	µg/L	4.44		107	60-130			

LCS Dup (B6J1724-BSD1)

Prepared: 2016-10-26, Analyzed: 2016-10-27

Acenaphthene	4.41	0.05 µg/L	4.44		99	70-130	< 1	20	
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Polycyclic Aromatic Hydrocarbons (PAH), Batch B6J1724, Continued									
LCS Dup (B6J1724-BSD1), Continued					Prepared: 2016-10-26, Analyzed: 2016-10-27				
Acenaphthylene	4.42	0.20 µg/L	4.44		99	70-130	< 1	20	
Acridine	4.02	0.10 µg/L	4.44		90	60-130	2	20	
Anthracene	4.43	0.01 µg/L	4.44		100	70-130	< 1	20	
Benz (a) anthracene	4.54	0.01 µg/L	4.44		102	70-130	2	20	
Benzo (a) pyrene	4.68	0.01 µg/L	4.44		105	70-130	1	20	
Benzo (b) fluoranthene	4.48	0.05 µg/L	4.44		101	70-130	2	20	
Benzo (g,h,i) perylene	5.08	0.05 µg/L	4.44		114	70-130	1	20	
Benzo (k) fluoranthene	4.49	0.05 µg/L	4.44		101	70-130	2	20	
Chrysene	4.58	0.05 µg/L	4.44		103	70-130	< 1	20	
Dibenz (a,h) anthracene	4.73	0.05 µg/L	4.44		106	70-130	1	20	
Fluoranthene	4.76	0.03 µg/L	4.44		107	70-130	4	20	
Fluorene	4.18	0.05 µg/L	4.44		94	70-130	< 1	20	
Indeno (1,2,3-cd) pyrene	5.31	0.05 µg/L	4.44		120	70-130	6	20	
Naphthalene	4.68	0.20 µg/L	4.44		105	70-130	< 1	20	
Phenanthrene	4.65	0.10 µg/L	4.44		105	70-130	< 1	20	
Pyrene	4.83	0.02 µg/L	4.44		109	70-130	4	20	
Quinoline	5.03	0.10 µg/L	4.44		113	70-130	2	20	
Surrogate: Acridine-d9	2.49	µg/L	4.44		56	60-130			S02
Surrogate: Naphthalene-d8	4.36	µg/L	4.44		98	60-130			
Surrogate: Perylene-d12	4.59	µg/L	4.44		103	60-130			

Total Metals, Batch B6J1878

Blank (B6J1878-BLK1)			Prepared: 2016-10-28, Analyzed: 2016-10-28						
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							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Total Metals, Batch B6J1878, Continued

Blank (B6J1878-BLK1), Continued

Prepared: 2016-10-28, Analyzed: 2016-10-28

Uranium, total	< 0.00002	0.00002 mg/L							
Vanadium, total	< 0.001	0.001 mg/L							
Zinc, total	< 0.004	0.004 mg/L							
Zirconium, total	< 0.0001	0.0001 mg/L							

Duplicate (B6J1878-DUP1)

Source: 6101528-01

Prepared: 2016-10-28, Analyzed: 2016-10-28

Aluminum, total	7.63	0.005 mg/L		7.56			< 1	29	
Antimony, total	0.0004	0.0001 mg/L		0.0004				31	
Arsenic, total	0.0015	0.0005 mg/L		0.0017				15	
Barium, total	0.061	0.005 mg/L		0.060			< 1	9	
Beryllium, total	0.0001	0.0001 mg/L		0.0002				16	
Bismuth, total	< 0.0001	0.0001 mg/L		< 0.0001				20	
Boron, total	0.037	0.004 mg/L		0.041			12	29	
Cadmium, total	0.00005	0.00001 mg/L		0.00015			98	33	RPD
Calcium, total	56.2	0.2 mg/L		55.7			1	12	
Chromium, total	0.0148	0.0005 mg/L		0.0153			3	12	
Cobalt, total	0.00399	0.00005 mg/L		0.00436			9	13	
Copper, total	0.0148	0.0002 mg/L		0.0157			6	37	
Iron, total	8.26	0.01 mg/L		8.43			2	18	
Lead, total	0.0048	0.0001 mg/L		0.0049			2	23	
Lithium, total	0.0040	0.0001 mg/L		0.0043			7	19	
Magnesium, total	11.2	0.01 mg/L		11.3			1	10	
Manganese, total	0.168	0.0002 mg/L		0.164			2	13	
Molybdenum, total	0.0009	0.0001 mg/L		0.0009			< 1	20	
Nickel, total	0.0116	0.0002 mg/L		0.0123			6	28	
Phosphorus, total	0.19	0.02 mg/L		0.20			5	24	
Potassium, total	2.47	0.02 mg/L		2.52			2	13	
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	17.1	0.5 mg/L		18.2			6	11	
Silver, total	< 0.00005	0.00005 mg/L		0.00057			181	18	
Sodium, total	33.2	0.02 mg/L		33.8			2	10	
Strontium, total	0.228	0.001 mg/L		0.227			< 1	9	
Sulfur, total	31	1 mg/L		30			< 1	24	
Tellurium, total	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, total	0.00003	0.00002 mg/L		0.00014			125	24	
Thorium, total	0.0003	0.0001 mg/L		0.0003				18	
Tin, total	0.0003	0.0002 mg/L		0.0003				18	
Titanium, total	0.457	0.005 mg/L		0.452			1	32	
Uranium, total	0.00069	0.00002 mg/L		0.00070			2	14	
Vanadium, total	0.022	0.001 mg/L		0.022			< 1	17	
Zinc, total	0.022	0.004 mg/L		0.023			4	8	
Zirconium, total	0.0030	0.0001 mg/L		0.0029			3	60	

Matrix Spike (B6J1878-MS1)

Source: 6101528-02

Prepared: 2016-10-28, Analyzed: 2016-10-28

Antimony, total	0.416	0.0001 mg/L	0.400	0.0005	104	84-125
Arsenic, total	0.198	0.0005 mg/L	0.200	< 0.0005	99	85-116
Barium, total	1.03	0.005 mg/L	1.00	0.029	100	87-114
Beryllium, total	0.0924	0.0001 mg/L	0.100	< 0.0001	92	72-116
Cadmium, total	0.0980	0.00001 mg/L	0.100	0.00005	98	90-112
Chromium, total	0.376	0.0005 mg/L	0.400	0.0033	93	89-120
Cobalt, total	0.374	0.00005 mg/L	0.400	0.00089	93	88-120
Copper, total	0.389	0.0002 mg/L	0.400	0.0041	96	88-125
Iron, total	3.50	0.01 mg/L	2.00	1.43	104	88-119
Lead, total	0.202	0.0001 mg/L	0.200	0.0010	100	89-118
Manganese, total	0.422	0.0002 mg/L	0.400	0.0427	95	84-120
Nickel, total	0.380	0.0002 mg/L	0.400	0.0029	94	87-119
Selenium, total	0.103	0.0005 mg/L	0.100	0.0005	103	85-113

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6101528
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Total Metals, Batch B6J1878, Continued

Matrix Spike (B6J1878-MS1), Continued	Source: 6101528-02		Prepared: 2016-10-28, Analyzed: 2016-10-28						
Silver, total	0.105	0.00005 mg/L	0.100	0.00009	105	89-119			
Thallium, total	0.0985	0.00002 mg/L	0.100	0.00003	98	92-119			
Vanadium, total	0.364	0.001 mg/L	0.400	0.005	90	87-117			
Zinc, total	0.980	0.004 mg/L	1.00	0.006	97	85-116			

Reference (B6J1878-SRM1)	Prepared: 2016-10-28, Analyzed: 2016-10-28								
Aluminum, total	0.279	0.005 mg/L	0.303		92	81-129			
Antimony, total	0.0528	0.0001 mg/L	0.0511		103	88-114			
Arsenic, total	0.118	0.0005 mg/L	0.118		100	88-114			
Barium, total	0.785	0.005 mg/L	0.823		95	72-104			
Beryllium, total	0.0483	0.0001 mg/L	0.0496		97	76-131			
Boron, total	3.04	0.004 mg/L	3.45		88	75-121			
Cadmium, total	0.0494	0.00001 mg/L	0.0495		100	89-111			
Calcium, total	11.7	0.2 mg/L	11.6		101	86-121			
Chromium, total	0.233	0.0005 mg/L	0.250		93	89-114			
Cobalt, total	0.0372	0.00005 mg/L	0.0377		99	91-113			
Copper, total	0.489	0.0002 mg/L	0.486		101	91-115			
Iron, total	0.50	0.01 mg/L	0.488		102	77-124			
Lead, total	0.210	0.0001 mg/L	0.204		103	92-113			
Lithium, total	0.373	0.0001 mg/L	0.403		92	85-115			
Magnesium, total	3.91	0.01 mg/L	3.79		103	78-120			
Manganese, total	0.103	0.0002 mg/L	0.109		94	90-114			
Molybdenum, total	0.199	0.0001 mg/L	0.198		101	90-111			
Nickel, total	0.241	0.0002 mg/L	0.249		97	90-111			
Phosphorus, total	0.20	0.02 mg/L	0.227		89	85-115			
Potassium, total	7.50	0.02 mg/L	7.21		104	84-113			
Selenium, total	0.132	0.0005 mg/L	0.121		109	85-115			
Sodium, total	7.78	0.02 mg/L	7.54		103	82-123			
Strontium, total	0.378	0.001 mg/L	0.375		101	88-112			
Thallium, total	0.0827	0.00002 mg/L	0.0805		103	91-114			
Uranium, total	0.0314	0.00002 mg/L	0.0306		103	85-120			
Vanadium, total	0.353	0.001 mg/L	0.386		91	86-111			
Zinc, total	2.50	0.004 mg/L	2.49		101	85-111			

Total Metals, Batch B6J2016

Blank (B6J2016-BLK1)	Prepared: 2016-10-30, Analyzed: 2016-10-31								
Mercury, total	< 0.00002	0.00002 mg/L							

Reference (B6J2016-SRM1)	Prepared: 2016-10-30, Analyzed: 2016-10-31								
Mercury, total	0.00487	0.00002 mg/L	0.00486		100	50-150			

Volatile Organic Compounds (VOC), Batch B6J1531

Blank (B6J1531-BLK1)	Prepared: 2016-10-24, Analyzed: 2016-10-24								
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 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							

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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Volatile Organic Compounds (VOC), Batch B6J1531, Continued

Blank (B6J1531-BLK1), Continued			Prepared: 2016-10-24, Analyzed: 2016-10-24						
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L							
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Methylene chloride	< 3.0	3.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L							
Tetrachloroethene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 2.0	2.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	23.5	µg/L	25.0		94	70-130			
Surrogate: 4-Bromofluorobenzene	21.3	µg/L	25.0		85	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	24.5	µg/L	25.0		98	70-130			

LCS (B6J1531-BS1)			Prepared: 2016-10-24, Analyzed: 2016-10-24						
Benzene	24.0	0.5 µg/L	20.0		120	70-130			
Bromodichloromethane	22.6	1.0 µg/L	20.0		113	70-130			
Bromoform	24.9	1.0 µg/L	20.0		125	70-130			
Bromomethane	16.1	2.0 µg/L	20.0		81	70-130			
Carbon tetrachloride	22.8	1.0 µg/L	20.0		114	70-130			
Chlorobenzene	24.7	1.0 µg/L	20.0		124	70-130			
Chloroethane	17.3	2.0 µg/L	20.0		86	70-130			
Chloroform	23.3	1.0 µg/L	20.0		116	70-130			
Chloromethane	17.8	2.0 µg/L	20.0		89	70-130			
Dibromochloromethane	22.6	1.0 µg/L	20.0		113	70-130			
1,2-Dibromoethane	23.4	0.3 µg/L	20.0		117	70-130			
Dibromomethane	24.4	1.0 µg/L	20.0		122	70-130			
1,2-Dichlorobenzene	26.6	0.5 µg/L	20.0		133	70-130			SPK
1,3-Dichlorobenzene	24.7	1.0 µg/L	20.0		124	70-130			
1,4-Dichlorobenzene	25.8	1.0 µg/L	20.0		129	70-130			
1,1-Dichloroethane	23.1	1.0 µg/L	20.0		115	70-130			
1,2-Dichloroethane	22.9	1.0 µg/L	20.0		114	70-130			
1,1-Dichloroethene	21.4	1.0 µg/L	20.0		107	70-130			
cis-1,2-Dichloroethene	23.0	1.0 µg/L	20.0		115	70-130			
trans-1,2-Dichloroethene	22.9	1.0 µg/L	20.0		114	70-130			
1,2-Dichloropropane	22.9	1.0 µg/L	20.0		114	70-130			
cis-1,3-Dichloropropene	21.6	1.0 µg/L	20.0		108	70-130			
trans-1,3-Dichloropropene	20.2	1.0 µg/L	20.0		101	70-130			
Ethylbenzene	21.0	1.0 µg/L	20.0		105	70-130			
Methyl tert-butyl ether	22.4	1.0 µg/L	20.0		112	70-130			

APPENDIX 1: QUALITY CONTROL DATA

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Volatile Organic Compounds (VOC), Batch B6J1531, Continued									
LCS (B6J1531-BS1), Continued					Prepared: 2016-10-24, Analyzed: 2016-10-24				
Methylene chloride	22.9	3.0 µg/L	20.0		115	70-130			
Styrene	22.0	1.0 µg/L	20.0		110	70-130			
1,1,1,2-Tetrachloroethane	22.3	1.0 µg/L	20.0		111	70-130			
1,1,2,2-Tetrachloroethane	24.3	1.0 µg/L	20.0		121	70-130			
Tetrachloroethene	21.2	1.0 µg/L	20.0		106	70-130			
Toluene	24.0	1.0 µg/L	20.0		120	70-130			
1,1,1-Trichloroethane	23.4	1.0 µg/L	20.0		117	70-130			
1,1,2-Trichloroethane	24.4	1.0 µg/L	20.0		122	70-130			
Trichloroethene	24.5	1.0 µg/L	20.0		123	70-130			
Trichlorofluoromethane	20.8	1.0 µg/L	20.0		104	70-130			
Vinyl chloride	18.9	2.0 µg/L	20.0		94	70-130			
Xylenes (total)	67.3	2.0 µg/L	60.0		112	70-130			
Surrogate: Toluene-d8	23.9	µg/L	25.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	21.6	µg/L	25.0		87	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	28.1	µg/L	25.0		112	70-130			

QC Qualifiers:

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

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6101528
2016-10-31

		6101528-01	6101528-02
		Water	Water
		2016-10-21	2016-10-21
		Weir	SW-1
Anions	Chloride (mg/L)	60.8	74.1
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.489	0.936
	Nitrite (as N) (mg/L)	< 0.005	< 0.005
	Sulfate (mg/L)	88.7	141
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	43	59
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	43	59
	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)	514	692
	pH (pH units)	7.65	7.63
	Solids, Total Dissolved (mg/L)	330	410
	Solids, Total Suspended (mg/L)	46	21
	Turbidity (NTU)	194	21.7
Calculated Parameters	Hardness, Total (as CaCO3) (mg/L)	160	236
Dissolved Metals	Aluminum, dissolved (mg/L)	0.012	0.076
	Antimony, dissolved (mg/L)	0.0003	0.0004
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.012	0.020
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.029	0.038
	Cadmium, dissolved (mg/L)	0.00002	0.00001
	Calcium, dissolved (mg/L)	49.2	72.5
	Chromium, dissolved (mg/L)	0.0005	< 0.0005
	Cobalt, dissolved (mg/L)	0.00010	0.00014
	Copper, dissolved (mg/L)	0.0007	0.0014
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0002	0.0003
	Magnesium, dissolved (mg/L)	9.01	13.3
	Manganese, dissolved (mg/L)	0.0302	0.0163
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0007	0.0015
	Nickel, dissolved (mg/L)	0.0008	0.0012
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	1.45	2.07
	Selenium, dissolved (mg/L)	< 0.0005	0.0005
	Silicon, dissolved (mg/L)	2.7	4.5
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005
	Sodium, dissolved (mg/L)	34.1	40.1
	Strontium, dissolved (mg/L)	0.201	0.275

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WORK ORDER REPORTED 6101528
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		6101528-01	6101528-02
		Water	Water
		2016-10-21	2016-10-21
		Weir	SW-1
Dissolved Metals	Sulfur, dissolved (mg/L)	34	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)	0.00042	0.00066
	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)	7.56	1.28
	Antimony, total (mg/L)	0.0004	0.0005
	Arsenic, total (mg/L)	0.0017	< 0.0005
	Barium, total (mg/L)	0.060	0.029
	Beryllium, total (mg/L)	0.0002	< 0.0001
	Bismuth, total (mg/L)	< 0.0001	< 0.0001
	Boron, total (mg/L)	0.041	0.043
	Cadmium, total (mg/L)	0.00015	0.00005
	Calcium, total (mg/L)	55.7	74.8
	Chromium, total (mg/L)	0.0153	0.0033
	Cobalt, total (mg/L)	0.00436	0.00089
	Copper, total (mg/L)	0.0157	0.0041
	Iron, total (mg/L)	8.43	1.43
	Lead, total (mg/L)	0.0049	0.0010
	Lithium, total (mg/L)	0.0043	0.0009
	Magnesium, total (mg/L)	11.3	12.4
	Manganese, total (mg/L)	0.164	0.0427
	Mercury, total (mg/L)	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0009	0.0013
	Nickel, total (mg/L)	0.0123	0.0029
	Phosphorus, total (mg/L)	0.20	0.02
	Potassium, total (mg/L)	2.52	2.10
	Selenium, total (mg/L)	< 0.0005	< 0.0005
	Silicon, total (mg/L)	18.2	5.9
	Silver, total (mg/L)	0.00057	0.00009
	Sodium, total (mg/L)	33.8	36.9
	Strontium, total (mg/L)	0.227	0.277
	Sulfur, total (mg/L)	30	48
	Tellurium, total (mg/L)	< 0.0002	< 0.0002
	Thallium, total (mg/L)	0.00014	0.00003
	Thorium, total (mg/L)	0.0003	< 0.0001
	Tin, total (mg/L)	0.0003	< 0.0002
	Titanium, total (mg/L)	0.452	0.082
Uranium, total (mg/L)	0.00070	0.00076	
Vanadium, total (mg/L)	0.022	0.005	

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WORK ORDER REPORTED 6101528
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		6101528-01	6101528-02
		Water	Water
		2016-10-21	2016-10-21
		Weir	SW-1
Total Metals	Zinc, total (mg/L)	0.023	0.006
	Zirconium, total (mg/L)	0.0029	0.0009
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 (%)	95	94
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 (%)	104	104
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 (%)	47	56
	Sur: Naphthalene-d8 (%)	93	97
Sur: Perylene-d12 (%)	102	106	
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 6101528
2016-10-31

		6101528-01	6101528-02
		Water	Water
		2016-10-21	2016-10-21
		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)	< 2.0	< 2.0
	Sur: Toluene-d8 (%)	98	97
	Sur: 4-Bromofluorobenzene (%)	87	84
	Sur: 1,4-Dichlorobenzene-d4 (%)	101	98

<p>Client Information Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726</p>	<p>Project Information SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5</p>	<p>Laboratory Information CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599</p>	<p>COC Information Number: B33080 Shipped via: Harbour Air</p>
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#1	1 (Template: 01) 10/21/2016 16:45 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (1) 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) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1)
Comments: Extra Sample supplied for Chromium Speciation			
#2	2 (Template: 01) 10/21/2016 17:00 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (1) 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) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (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: B33080 Shipped via: Harbour Air

#1	1 (Template: 01) 10/21/2016 16:45 Grab / Water <i>weir</i>	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (1) 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) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1)
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Comments: Extra Sample supplied for Chromium Speciation

#2	2 (Template: 01) 10/21/2016 17:00 Grab / Water <i>sw-1</i>	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (1) 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) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1)
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Relinquished by	Date/Time	Accepted by	Date/Time
		<i>BS Oct 24</i>	
		<i>9:00 HA</i>	



96°C