

REPORTED TO Allterra Construction
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WORK ORDER 6110232

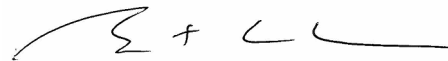
PO NUMBER P15-06 SIRM
PROJECT SIRM 460 Stebbings
PROJECT INFO

RECEIVED / TEMP 2016-11-02 17:40 / 6°C
REPORTED 2016-11-10
COC NUMBER B33100

General Comments:

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



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Analysis Description	Method Reference	Technique	Location
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Chromium, Hexavalent (Total) in Water	APHA 3500-Cr B	Colorimetry	Richmond
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Glycols in Water	EPA 8015B*	Gas Chromatography (GC-FID)	Richmond
Hardness (as CaCO3) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Hardness (as CaCO3) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Kelowna
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260B	Purge&Trap / GC-MS (SIM)	Richmond

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

Method Reference Descriptions:

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

Glossary of Terms:

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

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Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: 1 (6110232-01) [Water] Sampled: 2016-11-02 08:15

Anions

Chloride	64.1	± 2.9	0.10	mg/L	N/A	2016-11-04	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-04	
Nitrate (as N)	0.427	± 0.053	0.010	mg/L	N/A	2016-11-04	
Nitrite (as N)	< 0.100		0.010	mg/L	N/A	2016-11-04	
Sulfate	96.3	± 11.4	1.0	mg/L	N/A	2016-11-04	

General Parameters

Alkalinity, Total (as CaCO3)	51	± 3	1	mg/L	N/A	2016-11-08	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-11-08	
Alkalinity, Bicarbonate (as CaCO3)	51	± 3	1	mg/L	N/A	2016-11-08	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-11-08	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-11-08	
Chromium, Hexavalent	< 0.001		0.001	mg/L	2016-11-09	2016-11-10	
Colour, True	< 5		5	CU	N/A	2016-11-04	
Conductivity (EC)	518	± 8	2	µS/cm	N/A	2016-11-08	
pH	7.49	± 0.02	0.01	pH units	N/A	2016-11-08	HT2
Solids, Total Dissolved	323	± 30	10	mg/L	N/A	2016-11-08	
Solids, Total Suspended	21	± 2	2	mg/L	N/A	2016-11-04	
Turbidity	37.1	± 1.7	0.10	NTU	N/A	2016-11-03	

Calculated Parameters

Chromium, Trivalent	0.004		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	169		0.50	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	0.021	± 0.005	0.005	mg/L	N/A	2016-11-08	
Antimony, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Barium, dissolved	0.012	± 0.001	0.005	mg/L	N/A	2016-11-08	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Boron, dissolved	0.022	± 0.004	0.004	mg/L	N/A	2016-11-08	
Cadmium, dissolved	0.00004	± 0.00001	0.00001	mg/L	N/A	2016-11-08	
Calcium, dissolved	52.3	± 8.0	0.2	mg/L	N/A	2016-11-08	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Cobalt, dissolved	0.00014	± 0.00002	0.00005	mg/L	N/A	2016-11-08	
Copper, dissolved	0.0009	± 0.0003	0.0002	mg/L	N/A	2016-11-08	
Iron, dissolved	0.011	± 0.008	0.010	mg/L	N/A	2016-11-08	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Magnesium, dissolved	9.34	± 1.51	0.01	mg/L	N/A	2016-11-08	
Manganese, dissolved	0.0171	± 0.0019	0.0002	mg/L	N/A	2016-11-08	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-03	2016-11-06	
Molybdenum, dissolved	0.0008	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Nickel, dissolved	0.0010	± 0.0002	0.0002	mg/L	N/A	2016-11-08	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-08	

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Sample ID: 1 (6110232-01) [Water] Sampled: 2016-11-02 08:15, Continued

Dissolved Metals, Continued

Potassium, dissolved	1.70	± 0.24	0.02	mg/L	N/A	2016-11-08	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Silicon, dissolved	2.9	± 1.3	0.5	mg/L	N/A	2016-11-08	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-08	
Sodium, dissolved	36.3	± 5.6	0.02	mg/L	N/A	2016-11-08	
Strontium, dissolved	0.188	± 0.019	0.001	mg/L	N/A	2016-11-08	
Sulfur, dissolved	30	± 124	1	mg/L	N/A	2016-11-08	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-08	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-08	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-08	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-08	
Uranium, dissolved	0.00055	± 0.00007	0.00002	mg/L	N/A	2016-11-08	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-08	
Zinc, dissolved	0.017	± 0.006	0.004	mg/L	N/A	2016-11-08	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	

Total Metals

Aluminum, total	1.62	± 0.30	0.005	mg/L	2016-11-04	2016-11-08	
Antimony, total	0.0004	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Arsenic, total	0.0005	± 0.0001	0.0005	mg/L	2016-11-04	2016-11-08	
Barium, total	0.020	± 0.003	0.005	mg/L	2016-11-04	2016-11-08	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Boron, total	0.036	± 0.007	0.004	mg/L	2016-11-04	2016-11-08	
Cadmium, total	0.00002	± 0.00002	0.00001	mg/L	2016-11-04	2016-11-08	
Calcium, total	54.7	± 6.7	0.2	mg/L	2016-11-04	2016-11-08	
Chromium, total	0.0041	± 0.0006	0.0005	mg/L	2016-11-04	2016-11-08	
Cobalt, total	0.00105	± 0.00010	0.00005	mg/L	2016-11-04	2016-11-08	
Copper, total	0.0049	± 0.0006	0.0002	mg/L	2016-11-04	2016-11-08	
Iron, total	1.97	± 0.39	0.01	mg/L	2016-11-04	2016-11-08	
Lead, total	0.0010	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Lithium, total	0.0010	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Magnesium, total	10.2	± 1.6	0.01	mg/L	2016-11-04	2016-11-08	
Manganese, total	0.0434	± 0.0039	0.0002	mg/L	2016-11-04	2016-11-08	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-03	2016-11-06	
Molybdenum, total	0.0009	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Nickel, total	0.0034	± 0.0003	0.0002	mg/L	2016-11-04	2016-11-08	
Phosphorus, total	0.07	± 1.14	0.02	mg/L	2016-11-04	2016-11-08	
Potassium, total	1.93	± 0.22	0.02	mg/L	2016-11-04	2016-11-08	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-04	2016-11-08	
Silicon, total	5.3	± 2.0	0.5	mg/L	2016-11-04	2016-11-08	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-04	2016-11-08	
Sodium, total	37.5	± 5.5	0.02	mg/L	2016-11-04	2016-11-08	
Strontium, total	0.201	± 0.019	0.001	mg/L	2016-11-04	2016-11-08	
Sulfur, total	31	± 197	1	mg/L	2016-11-04	2016-11-08	

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Sample ID: 1 (6110232-01) [Water] Sampled: 2016-11-02 08:15, Continued

Total Metals, Continued

Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-04	2016-11-08	
Thallium, total	< 0.00002		0.00002	mg/L	2016-11-04	2016-11-08	
Thorium, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Tin, total	0.0002	± 0.0001	0.0002	mg/L	2016-11-04	2016-11-08	
Titanium, total	0.083	± 0.011	0.005	mg/L	2016-11-04	2016-11-08	
Uranium, total	0.00062	± 0.00004	0.00002	mg/L	2016-11-04	2016-11-08	
Vanadium, total	0.006	± 0.001	0.001	mg/L	2016-11-04	2016-11-08	
Zinc, total	0.007	± 0.002	0.004	mg/L	2016-11-04	2016-11-08	
Zirconium, total	0.0002		0.0001	mg/L	2016-11-04	2016-11-08	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-11-05	2016-11-05	
EPHw19-32	< 250		250	µg/L	2016-11-05	2016-11-05	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	93		60-140	%	2016-11-05	2016-11-05	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Surrogate: Tetramethylene Glycol	99		66-125	%	N/A	2016-11-08	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-05	2016-11-05	
Acridine	< 0.10		0.10	µg/L	2016-11-05	2016-11-05	
Anthracene	< 0.01		0.01	µg/L	2016-11-05	2016-11-05	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-05	2016-11-05	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-05	2016-11-05	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Chrysene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-05	2016-11-05	
Fluorene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-05	2016-11-05	
Naphthalene	< 0.20		0.20	µg/L	2016-11-05	2016-11-05	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-05	2016-11-05	
Pyrene	< 0.02		0.02	µg/L	2016-11-05	2016-11-05	
Quinoline	< 0.10		0.10	µg/L	2016-11-05	2016-11-05	
Surrogate: Acridine-d9	55		60-130	%	2016-11-05	2016-11-05	S02
Surrogate: Naphthalene-d8	96		60-130	%	2016-11-05	2016-11-05	
Surrogate: Perylene-d12	117		60-130	%	2016-11-05	2016-11-05	

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Sample ID: 1 (6110232-01) [Water] Sampled: 2016-11-02 08:15, Continued

Volatile Organic Compounds (VOC)							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-04	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-04	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-04	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-04	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-04	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-04	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-04	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-04	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-04	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-04	
Surrogate: Toluene-d8	104		70-130	%	N/A	2016-11-04	
Surrogate: 4-Bromofluorobenzene	99		70-130	%	N/A	2016-11-04	
Surrogate: 1,4-Dichlorobenzene-d4	92		70-130	%	N/A	2016-11-04	

Sample ID: 2 (6110232-02) [Water] Sampled: 2016-11-02 08:30

Anions							
Chloride	65.3 ± 3.0		0.10	mg/L	N/A	2016-11-04	

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Sample ID: 2 (6110232-02) [Water] Sampled: 2016-11-02 08:30, Continued

Anions, Continued

Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-04	
Nitrate (as N)	0.746	± 0.093	0.010	mg/L	N/A	2016-11-04	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-11-04	
Sulfate	126	± 15	1.0	mg/L	N/A	2016-11-04	

General Parameters

Alkalinity, Total (as CaCO ₃)	68	± 4	1	mg/L	N/A	2016-11-08	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1		1	mg/L	N/A	2016-11-08	
Alkalinity, Bicarbonate (as CaCO ₃)	68	± 4	1	mg/L	N/A	2016-11-08	
Alkalinity, Carbonate (as CaCO ₃)	< 1		1	mg/L	N/A	2016-11-08	
Alkalinity, Hydroxide (as CaCO ₃)	< 1		1	mg/L	N/A	2016-11-08	
Chromium, Hexavalent	< 0.001		0.001	mg/L	2016-11-09	2016-11-10	
Colour, True	< 5		5	CU	N/A	2016-11-04	
Conductivity (EC)	591	± 9	2	µS/cm	N/A	2016-11-08	
pH	7.57	± 0.02	0.01	pH units	N/A	2016-11-08	HT2
Solids, Total Dissolved	365	± 34	10	mg/L	N/A	2016-11-08	
Solids, Total Suspended	6	± 1	2	mg/L	N/A	2016-11-04	
Turbidity	12.8	± 0.6	0.10	NTU	N/A	2016-11-03	

Calculated Parameters

Chromium, Trivalent	0.001		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO ₃)	212		0.50	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	0.011	± 0.003	0.005	mg/L	N/A	2016-11-08	
Antimony, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Barium, dissolved	0.017	± 0.002	0.005	mg/L	N/A	2016-11-08	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Boron, dissolved	0.027	± 0.005	0.004	mg/L	N/A	2016-11-08	
Cadmium, dissolved	0.00002	± 0.00001	0.00001	mg/L	N/A	2016-11-08	
Calcium, dissolved	65.9	± 10.1	0.2	mg/L	N/A	2016-11-08	
Chromium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Cobalt, dissolved	0.00013	± 0.00002	0.00005	mg/L	N/A	2016-11-08	
Copper, dissolved	0.0013	± 0.0004	0.0002	mg/L	N/A	2016-11-08	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-11-08	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Magnesium, dissolved	11.6	± 1.9	0.01	mg/L	N/A	2016-11-08	
Manganese, dissolved	0.0144	± 0.0016	0.0002	mg/L	N/A	2016-11-08	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-03	2016-11-06	
Molybdenum, dissolved	0.0014	± 0.0001	0.0001	mg/L	N/A	2016-11-08	
Nickel, dissolved	0.0008	± 0.0002	0.0002	mg/L	N/A	2016-11-08	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-08	
Potassium, dissolved	1.93	± 0.27	0.02	mg/L	N/A	2016-11-08	

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Sample ID: 2 (6110232-02) [Water] Sampled: 2016-11-02 08:30, Continued

Dissolved Metals, Continued

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-08	
Silicon, dissolved	4.0	± 1.8	0.5	mg/L	N/A	2016-11-08	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-08	
Sodium, dissolved	35.6	± 5.5	0.02	mg/L	N/A	2016-11-08	
Strontium, dissolved	0.226	± 0.023	0.001	mg/L	N/A	2016-11-08	
Sulfur, dissolved	38	± 157	1	mg/L	N/A	2016-11-08	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-08	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-08	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-08	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-08	
Uranium, dissolved	0.00086	± 0.00011	0.00002	mg/L	N/A	2016-11-08	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-08	
Zinc, dissolved	0.006	± 0.006	0.004	mg/L	N/A	2016-11-08	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-08	

Total Metals

Aluminum, total	0.342	± 0.063	0.005	mg/L	2016-11-04	2016-11-08	
Antimony, total	0.0005	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-11-04	2016-11-08	
Barium, total	0.019	± 0.003	0.005	mg/L	2016-11-04	2016-11-08	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Boron, total	0.036	± 0.007	0.004	mg/L	2016-11-04	2016-11-08	
Cadmium, total	0.00001	± 0.00002	0.00001	mg/L	2016-11-04	2016-11-08	
Calcium, total	68.1	± 8.3	0.2	mg/L	2016-11-04	2016-11-08	
Chromium, total	0.0012	± 0.0002	0.0005	mg/L	2016-11-04	2016-11-08	
Cobalt, total	0.00048	± 0.00004	0.00005	mg/L	2016-11-04	2016-11-08	
Copper, total	0.0025	± 0.0003	0.0002	mg/L	2016-11-04	2016-11-08	
Iron, total	0.39	± 0.08	0.01	mg/L	2016-11-04	2016-11-08	
Lead, total	0.0003	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Lithium, total	0.0004	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Magnesium, total	11.7	± 1.8	0.01	mg/L	2016-11-04	2016-11-08	
Manganese, total	0.0363	± 0.0033	0.0002	mg/L	2016-11-04	2016-11-08	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-03	2016-11-06	
Molybdenum, total	0.0014	± 0.0001	0.0001	mg/L	2016-11-04	2016-11-08	
Nickel, total	0.0013	± 0.0001	0.0002	mg/L	2016-11-04	2016-11-08	
Phosphorus, total	0.05	± 0.76	0.02	mg/L	2016-11-04	2016-11-08	
Potassium, total	2.01	± 0.23	0.02	mg/L	2016-11-04	2016-11-08	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-04	2016-11-08	
Silicon, total	4.4	± 1.6	0.5	mg/L	2016-11-04	2016-11-08	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-04	2016-11-08	
Sodium, total	36.2	± 5.3	0.02	mg/L	2016-11-04	2016-11-08	
Strontium, total	0.231	± 0.021	0.001	mg/L	2016-11-04	2016-11-08	
Sulfur, total	40	± 253	1	mg/L	2016-11-04	2016-11-08	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-04	2016-11-08	

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Sample ID: 2 (6110232-02) [Water] Sampled: 2016-11-02 08:30, Continued

Total Metals, Continued

Thallium, total	< 0.00002		0.00002	mg/L	2016-11-04	2016-11-08	
Thorium, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	
Tin, total	< 0.0002		0.0002	mg/L	2016-11-04	2016-11-08	
Titanium, total	0.015	± 0.002	0.005	mg/L	2016-11-04	2016-11-08	
Uranium, total	0.00086	± 0.00006	0.00002	mg/L	2016-11-04	2016-11-08	
Vanadium, total	0.002		0.001	mg/L	2016-11-04	2016-11-08	
Zinc, total	< 0.004		0.004	mg/L	2016-11-04	2016-11-08	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-11-04	2016-11-08	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-11-05	2016-11-05	
EPHw19-32	< 250		250	µg/L	2016-11-05	2016-11-05	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	89		60-140	%	2016-11-05	2016-11-05	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-08	
Surrogate: Tetramethylene Glycol	100		66-125	%	N/A	2016-11-08	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-05	2016-11-06	
Acridine	< 0.10		0.10	µg/L	2016-11-05	2016-11-06	
Anthracene	< 0.01		0.01	µg/L	2016-11-05	2016-11-06	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-05	2016-11-06	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-05	2016-11-06	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Chrysene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-05	2016-11-06	
Fluorene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-05	2016-11-06	
Naphthalene	< 0.20		0.20	µg/L	2016-11-05	2016-11-06	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-05	2016-11-06	
Pyrene	< 0.02		0.02	µg/L	2016-11-05	2016-11-06	
Quinoline	< 0.10		0.10	µg/L	2016-11-05	2016-11-06	
Surrogate: Acridine-d9	56		60-130	%	2016-11-05	2016-11-06	S02
Surrogate: Naphthalene-d8	96		60-130	%	2016-11-05	2016-11-06	
Surrogate: Perylene-d12	111		60-130	%	2016-11-05	2016-11-06	

Volatile Organic Compounds (VOC)

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Sample ID: 2 (6110232-02) [Water] Sampled: 2016-11-02 08:30, Continued

Volatile Organic Compounds (VOC), Continued							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-04	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-04	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-04	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-04	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-04	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-04	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-04	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-04	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-04	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-04	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-04	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-04	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-04	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-04	
Surrogate: Toluene-d8	103		70-130	%	N/A	2016-11-04	
Surrogate: 4-Bromofluorobenzene	100		70-130	%	N/A	2016-11-04	
Surrogate: 1,4-Dichlorobenzene-d4	89		70-130	%	N/A	2016-11-04	

Sample / Analysis Qualifiers:

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 B6K0334									
Blank (B6K0334-BLK1) Prepared: 2016-11-04, Analyzed: 2016-11-04									
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B6K0334-BLK2) Prepared: 2016-11-04, Analyzed: 2016-11-04									
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 (B6K0334-BS1) Prepared: 2016-11-04, Analyzed: 2016-11-04									
Chloride	15.3	0.10 mg/L	16.0		95	90-110			
Fluoride	3.92	0.10 mg/L	4.00		98	88-108			
Nitrate (as N)	3.96	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	1.81	0.010 mg/L	2.00		91	83-110			
Sulfate	15.5	1.0 mg/L	16.0		97	91-109			
LCS (B6K0334-BS2) Prepared: 2016-11-04, Analyzed: 2016-11-04									
Chloride	15.3	0.10 mg/L	16.0		95	90-110			
Fluoride	3.76	0.10 mg/L	4.00		94	88-108			
Nitrate (as N)	3.97	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	1.81	0.010 mg/L	2.00		90	83-110			
Sulfate	15.4	1.0 mg/L	16.0		96	91-109			
BCMOE Aggregate Hydrocarbons, Batch B6K0339									
Blank (B6K0339-BLK1) Prepared: 2016-11-05, Analyzed: 2016-11-05									
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							

APPENDIX 1: QUALITY CONTROL DATA

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
BCMOE Aggregate Hydrocarbons, Batch B6K0339, Continued									
Blank (B6K0339-BLK1), Continued			Prepared: 2016-11-05, Analyzed: 2016-11-05						
Surrogate: 2-Methylnonane	428	µg/L	444		96	60-140			
LCS (B6K0339-BS2)			Prepared: 2016-11-05, Analyzed: 2016-11-05						
EPHw10-19	16800	250 µg/L	15500		109	70-130			
EPHw19-32	19500	250 µg/L	22200		88	70-130			
Surrogate: 2-Methylnonane	474	µg/L	444		107	60-140			
Dissolved Metals, Batch B6K0268									
Blank (B6K0268-BLK1)			Prepared: 2016-11-03, Analyzed: 2016-11-06						
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Reference (B6K0268-SRM1)			Prepared: 2016-11-03, Analyzed: 2016-11-06						
Mercury, dissolved	0.00496	0.00002 mg/L	0.00486		102	50-150			
Dissolved Metals, Batch B6K0291									
Blank (B6K0291-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
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 B6K0291, Continued

Matrix Spike (B6K0291-MS1)		Source: 6110232-02		Prepared: 2016-11-08, Analyzed: 2016-11-08					
Antimony, dissolved	0.396	0.0001 mg/L	0.400	0.0002	99	76-114			
Arsenic, dissolved	0.198	0.0005 mg/L	0.200	< 0.0005	99	81-115			
Barium, dissolved	0.908	0.005 mg/L	1.00	0.017	89	80-113			
Beryllium, dissolved	0.0842	0.0001 mg/L	0.100	< 0.0001	84	69-109			
Cadmium, dissolved	0.0942	0.00001 mg/L	0.100	0.00002	94	83-110			
Chromium, dissolved	0.396	0.0005 mg/L	0.400	< 0.0005	99	85-115			
Cobalt, dissolved	0.401	0.00005 mg/L	0.400	0.00013	100	86-114			
Copper, dissolved	0.411	0.0002 mg/L	0.400	0.0013	102	82-119			
Iron, dissolved	1.95	0.010 mg/L	2.00	< 0.010	97	80-116			
Lead, dissolved	0.199	0.0001 mg/L	0.200	< 0.0001	99	83-112			
Manganese, dissolved	0.380	0.0002 mg/L	0.400	0.0144	91	62-131			
Nickel, dissolved	0.393	0.0002 mg/L	0.400	0.0008	98	81-115			
Selenium, dissolved	0.105	0.0005 mg/L	0.100	< 0.0005	105	79-115			
Silver, dissolved	0.106	0.00005 mg/L	0.100	< 0.00005	105	69-121			
Thallium, dissolved	0.0987	0.00002 mg/L	0.100	< 0.00002	99	84-115			
Vanadium, dissolved	0.374	0.001 mg/L	0.400	< 0.001	93	83-113			
Zinc, dissolved	0.989	0.004 mg/L	1.00	0.006	98	82-115			

Reference (B6K0291-SRM1)		Prepared: 2016-11-08, Analyzed: 2016-11-08							
Aluminum, dissolved	0.225	0.005 mg/L	0.233		97	58-142			
Antimony, dissolved	0.0498	0.0001 mg/L	0.0430		116	75-125			
Arsenic, dissolved	0.465	0.0005 mg/L	0.438		106	81-119			
Barium, dissolved	3.32	0.005 mg/L	3.35		99	83-117			
Beryllium, dissolved	0.208	0.0001 mg/L	0.213		98	80-120			
Boron, dissolved	1.66	0.004 mg/L	1.74		96	74-117			
Cadmium, dissolved	0.231	0.00001 mg/L	0.224		103	83-117			
Calcium, dissolved	8.0	0.2 mg/L	7.69		104	76-124			
Chromium, dissolved	0.462	0.0005 mg/L	0.437		106	81-119			
Cobalt, dissolved	0.136	0.00005 mg/L	0.128		106	76-124			
Copper, dissolved	0.905	0.0002 mg/L	0.844		107	84-116			
Iron, dissolved	1.32	0.010 mg/L	1.29		102	74-126			
Lead, dissolved	0.116	0.0001 mg/L	0.112		104	72-128			
Lithium, dissolved	0.0981	0.0001 mg/L	0.104		94	60-140			
Magnesium, dissolved	7.20	0.01 mg/L	6.92		104	81-119			
Manganese, dissolved	0.346	0.0002 mg/L	0.345		100	84-116			
Molybdenum, dissolved	0.438	0.0001 mg/L	0.426		103	83-117			
Nickel, dissolved	0.887	0.0002 mg/L	0.840		106	74-126			
Phosphorus, dissolved	0.49	0.02 mg/L	0.495		100	68-132			
Potassium, dissolved	3.61	0.02 mg/L	3.19		113	74-126			
Selenium, dissolved	0.0343	0.0005 mg/L	0.0331		104	70-130			
Sodium, dissolved	20.0	0.02 mg/L	19.1		105	72-128			
Strontium, dissolved	0.887	0.001 mg/L	0.916		97	84-113			
Thallium, dissolved	0.0396	0.00002 mg/L	0.0393		101	57-143			
Uranium, dissolved	0.272	0.00002 mg/L	0.266		102	85-115			
Vanadium, dissolved	0.887	0.001 mg/L	0.869		102	87-113			
Zinc, dissolved	0.939	0.004 mg/L	0.881		107	72-128			

General Parameters, Batch B6K0301

Blank (B6K0301-BLK1)		Prepared: 2016-11-04, Analyzed: 2016-11-04							
Solids, Total Suspended	< 1	2 mg/L							
LCS (B6K0301-BS1)		Prepared: 2016-11-04, Analyzed: 2016-11-04							
Solids, Total Suspended	51	2 mg/L	50.0	102	85-110				

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B6K0348									
Blank (B6K0348-BLK1)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	< 0.10	0.10 NTU							
Blank (B6K0348-BLK2)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	< 0.10	0.10 NTU							
Blank (B6K0348-BLK3)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	< 0.10	0.10 NTU							
LCS (B6K0348-BS1)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	40.3	0.10 NTU	40.0		101	90-110			
LCS (B6K0348-BS2)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	40.3	0.10 NTU	40.0		101	90-110			
LCS (B6K0348-BS3)			Prepared: 2016-11-04, Analyzed: 2016-11-04						
Turbidity	40.4	0.10 NTU	40.0		101	90-110			
General Parameters, Batch B6K0429									
Blank (B6K0429-BLK1)			Prepared: 2016-11-07, Analyzed: 2016-11-07						
Colour, True	< 5	5 CU							
Blank (B6K0429-BLK2)			Prepared: 2016-11-07, Analyzed: 2016-11-07						
Colour, True	< 5	5 CU							
LCS (B6K0429-BS1)			Prepared: 2016-11-07, Analyzed: 2016-11-07						
Colour, True	10	5 CU	10.0		100	85-115			
LCS (B6K0429-BS2)			Prepared: 2016-11-07, Analyzed: 2016-11-07						
Colour, True	11	5 CU	10.0		108	85-115			
Duplicate (B6K0429-DUP1)			Source: 6110232-01			Prepared: 2016-11-07, Analyzed: 2016-11-07			
Colour, True	< 5	5 CU		< 5				5	
General Parameters, Batch B6K0535									
Blank (B6K0535-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
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)	1	2 µS/cm							BLK
LCS (B6K0535-BS1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Alkalinity, Total (as CaCO ₃)	102	1 mg/L	100		102	96-108			
LCS (B6K0535-BS2)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Conductivity (EC)	1400	2 µS/cm	1410		99	95-104			
Reference (B6K0535-SRM1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
pH	6.94	0.01 pH units	7.00		99	98-102			
General Parameters, Batch B6K0572									
Blank (B6K0572-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Solids, Total Dissolved	< 10	10 mg/L							

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General Parameters, Batch B6K0572, Continued									
Blank (B6K0572-BLK1), Continued			Prepared: 2016-11-08, Analyzed: 2016-11-08						
LCS (B6K0572-BS1)									
Prepared: 2016-11-08, Analyzed: 2016-11-08									
Solids, Total Dissolved	244	10 mg/L	240		102	80-120			
General Parameters, Batch B6K0676									
Blank (B6K0676-BLK1)			Prepared: 2016-11-09, Analyzed: 2016-11-10						
Chromium, Hexavalent	< 0.001	0.001 mg/L							
LCS (B6K0676-BS1)									
Prepared: 2016-11-09, Analyzed: 2016-11-10									
Chromium, Hexavalent	0.105	0.001 mg/L	0.100		105	90-111			
Glycols, Batch B6K0423									
Blank (B6K0423-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
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	89.4	mg/L	95.6		93	66-125			
LCS (B6K0423-BS1)									
Prepared: 2016-11-08, Analyzed: 2016-11-08									
Propylene glycol	49	5 mg/L	50.0		97	71-114			
Ethylene glycol	48	5 mg/L	49.9		97	82-124			
Diethylene glycol	50	5 mg/L	50.0		101	80-116			
Triethylene glycol	50	5 mg/L	49.8		100	73-120			
Surrogate: Tetramethylene Glycol	102	mg/L	95.6		106	66-125			
LCS Dup (B6K0423-BSD1)									
Prepared: 2016-11-08, Analyzed: 2016-11-08									
Propylene glycol	50	5 mg/L	50.0		100	71-114	3	20	
Ethylene glycol	50	5 mg/L	49.9		101	82-124	4	20	
Diethylene glycol	53	5 mg/L	50.0		106	80-116	5	20	
Triethylene glycol	53	5 mg/L	49.8		107	73-120	7	20	
Surrogate: Tetramethylene Glycol	103	mg/L	95.6		108	66-125			
Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K0339									
Blank (B6K0339-BLK1)			Prepared: 2016-11-05, Analyzed: 2016-11-06						
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							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K0339, Continued

Blank (B6K0339-BLK1), Continued

Prepared: 2016-11-05, Analyzed: 2016-11-06

Quinoline	< 0.10	0.10 µg/L							
Surrogate: Acridine-d9	2.81	µg/L	4.44		63	60-130			
Surrogate: Naphthalene-d8	4.37	µg/L	4.44		98	60-130			
Surrogate: Perylene-d12	5.17	µg/L	4.44		116	60-130			

LCS (B6K0339-BS1)

Prepared: 2016-11-05, Analyzed: 2016-11-06

Acenaphthene	4.29	0.05 µg/L	4.44		97	70-130			
Acenaphthylene	4.28	0.20 µg/L	4.44		96	70-130			
Acridine	4.11	0.10 µg/L	4.44		93	60-130			
Anthracene	4.46	0.01 µg/L	4.44		100	70-130			
Benz (a) anthracene	4.73	0.01 µg/L	4.44		106	70-130			
Benzo (a) pyrene	4.89	0.01 µg/L	4.44		110	70-130			
Benzo (b) fluoranthene	4.43	0.05 µg/L	4.44		100	70-130			
Benzo (g,h,i) perylene	4.98	0.05 µg/L	4.44		112	70-130			
Benzo (k) fluoranthene	3.97	0.05 µg/L	4.44		89	70-130			
Chrysene	4.69	0.05 µg/L	4.44		105	70-130			
Dibenz (a,h) anthracene	5.06	0.05 µg/L	4.44		114	70-130			
Fluoranthene	5.02	0.03 µg/L	4.44		113	70-130			
Fluorene	4.17	0.05 µg/L	4.44		94	70-130			
Indeno (1,2,3-cd) pyrene	5.05	0.05 µg/L	4.44		114	70-130			
Naphthalene	4.48	0.20 µg/L	4.44		101	70-130			
Phenanthrene	4.59	0.10 µg/L	4.44		103	70-130			
Pyrene	5.07	0.02 µg/L	4.44		114	70-130			
Quinoline	4.88	0.10 µg/L	4.44		110	70-130			
Surrogate: Acridine-d9	2.82	µg/L	4.44		64	60-130			
Surrogate: Naphthalene-d8	4.51	µg/L	4.44		101	60-130			
Surrogate: Perylene-d12	5.21	µg/L	4.44		117	60-130			

LCS Dup (B6K0339-BSD1)

Prepared: 2016-11-05, Analyzed: 2016-11-06

Acenaphthene	4.45	0.05 µg/L	4.44		100	70-130	4	20	
Acenaphthylene	4.42	0.20 µg/L	4.44		99	70-130	3	20	
Acridine	4.23	0.10 µg/L	4.44		95	60-130	3	20	
Anthracene	4.66	0.01 µg/L	4.44		105	70-130	4	20	
Benz (a) anthracene	4.99	0.01 µg/L	4.44		112	70-130	5	20	
Benzo (a) pyrene	5.14	0.01 µg/L	4.44		116	70-130	5	20	
Benzo (b) fluoranthene	4.64	0.05 µg/L	4.44		104	70-130	5	20	
Benzo (g,h,i) perylene	5.07	0.05 µg/L	4.44		114	70-130	2	20	
Benzo (k) fluoranthene	4.83	0.05 µg/L	4.44		109	70-130	20	20	
Chrysene	4.92	0.05 µg/L	4.44		111	70-130	5	20	
Dibenz (a,h) anthracene	5.32	0.05 µg/L	4.44		120	70-130	5	20	
Fluoranthene	5.11	0.03 µg/L	4.44		115	70-130	2	20	
Fluorene	4.28	0.05 µg/L	4.44		96	70-130	2	20	
Indeno (1,2,3-cd) pyrene	5.15	0.05 µg/L	4.44		116	70-130	2	20	
Naphthalene	4.76	0.20 µg/L	4.44		107	70-130	6	20	
Phenanthrene	4.69	0.10 µg/L	4.44		105	70-130	2	20	
Pyrene	5.14	0.02 µg/L	4.44		116	70-130	1	20	
Quinoline	4.91	0.10 µg/L	4.44		110	70-130	< 1	20	
Surrogate: Acridine-d9	2.78	µg/L	4.44		63	60-130			
Surrogate: Naphthalene-d8	4.67	µg/L	4.44		105	60-130			
Surrogate: Perylene-d12	5.21	µg/L	4.44		117	60-130			

Total Metals, Batch B6K0270

Blank (B6K0270-BLK1)

Prepared: 2016-11-03, Analyzed: 2016-11-06

Mercury, total	< 0.00002	0.00002 mg/L							
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Total Metals, Batch B6K0270, Continued

Reference (B6K0270-SRM1)

Prepared: 2016-11-03, Analyzed: 2016-11-06

Mercury, total	0.00478	0.00002 mg/L	0.00486		98	50-150			
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Total Metals, Batch B6K0359

Blank (B6K0359-BLK1)

Prepared: 2016-11-04, Analyzed: 2016-11-08

Aluminum, total	< 0.005	0.005 mg/L							
Antimony, total	< 0.0001	0.0001 mg/L							
Arsenic, total	< 0.0005	0.0005 mg/L							
Barium, total	< 0.005	0.005 mg/L							
Beryllium, total	< 0.0001	0.0001 mg/L							
Bismuth, total	< 0.0001	0.0001 mg/L							
Boron, total	< 0.004	0.004 mg/L							
Cadmium, total	< 0.00001	0.00001 mg/L							
Calcium, total	< 0.2	0.2 mg/L							
Chromium, total	< 0.0005	0.0005 mg/L							
Cobalt, total	< 0.00005	0.00005 mg/L							
Copper, total	< 0.0002	0.0002 mg/L							
Iron, total	< 0.01	0.01 mg/L							
Lead, total	< 0.0001	0.0001 mg/L							
Lithium, total	< 0.0001	0.0001 mg/L							
Magnesium, total	< 0.01	0.01 mg/L							
Manganese, total	< 0.0002	0.0002 mg/L							
Molybdenum, total	< 0.0001	0.0001 mg/L							
Nickel, total	< 0.0002	0.0002 mg/L							
Phosphorus, total	< 0.02	0.02 mg/L							
Potassium, total	< 0.02	0.02 mg/L							
Selenium, total	< 0.0005	0.0005 mg/L							
Silicon, total	< 0.5	0.5 mg/L							
Silver, total	< 0.00005	0.00005 mg/L							
Sodium, total	< 0.02	0.02 mg/L							
Strontium, total	< 0.001	0.001 mg/L							
Sulfur, total	< 1	1 mg/L							
Tellurium, total	< 0.0002	0.0002 mg/L							
Thallium, total	< 0.00002	0.00002 mg/L							
Thorium, total	< 0.0001	0.0001 mg/L							
Tin, total	< 0.0002	0.0002 mg/L							
Titanium, total	< 0.005	0.005 mg/L							
Uranium, total	< 0.00002	0.00002 mg/L							
Vanadium, total	< 0.001	0.001 mg/L							
Zinc, total	< 0.004	0.004 mg/L							
Zirconium, total	< 0.0001	0.0001 mg/L							

Duplicate (B6K0359-DUP1)

Source: 6110232-01

Prepared: 2016-11-04, Analyzed: 2016-11-08

Aluminum, total	1.56	0.005 mg/L	1.62		4	29
Antimony, total	0.0005	0.0001 mg/L	0.0004		20	31
Arsenic, total	0.0005	0.0005 mg/L	0.0005			15
Barium, total	0.019	0.005 mg/L	0.020			9
Beryllium, total	< 0.0001	0.0001 mg/L	< 0.0001			16
Bismuth, total	< 0.0001	0.0001 mg/L	< 0.0001			20
Boron, total	0.030	0.004 mg/L	0.036		17	29
Cadmium, total	0.00001	0.00001 mg/L	0.00002			33
Calcium, total	54.9	0.2 mg/L	54.7		< 1	12
Chromium, total	0.0038	0.0005 mg/L	0.0041		8	12
Cobalt, total	0.00105	0.00005 mg/L	0.00105		< 1	13
Copper, total	0.0048	0.0002 mg/L	0.0049		2	37
Iron, total	1.91	0.01 mg/L	1.97		3	18

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Total Metals, Batch B6K0359, Continued									
Duplicate (B6K0359-DUP1), Continued		Source: 6110232-01		Prepared: 2016-11-04, Analyzed: 2016-11-08					
Lead, total	0.0010	0.0001 mg/L		0.0010			1	23	
Lithium, total	0.0009	0.0001 mg/L		0.0010			1	19	
Magnesium, total	10.0	0.01 mg/L		10.2			2	10	
Manganese, total	0.0423	0.0002 mg/L		0.0434			3	13	
Molybdenum, total	0.0008	0.0001 mg/L		0.0009			10	20	
Nickel, total	0.0033	0.0002 mg/L		0.0034			2	28	
Phosphorus, total	0.06	0.02 mg/L		0.07				24	
Potassium, total	1.88	0.02 mg/L		1.93			3	13	
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	5.3	0.5 mg/L		5.3			< 1	11	
Silver, total	< 0.00005	0.00005 mg/L		< 0.00005				18	
Sodium, total	36.8	0.02 mg/L		37.5			2	10	
Strontium, total	0.197	0.001 mg/L		0.201			2	9	
Sulfur, total	32	1 mg/L		31			3	24	
Tellurium, total	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, total	< 0.00002	0.00002 mg/L		0.00002				24	
Thorium, total	< 0.0001	0.0001 mg/L		< 0.0001				18	
Tin, total	0.0003	0.0002 mg/L		0.0002				18	
Titanium, total	0.081	0.005 mg/L		0.083			3	32	
Uranium, total	0.00062	0.00002 mg/L		0.00062			< 1	14	
Vanadium, total	0.005	0.001 mg/L		0.006			5	17	
Zinc, total	0.007	0.004 mg/L		0.007				8	
Zirconium, total	0.0001	0.0001 mg/L		0.0002				60	
Matrix Spike (B6K0359-MS1)		Source: 6110232-02		Prepared: 2016-11-04, Analyzed: 2016-11-08					
Antimony, total	0.446	0.0001 mg/L	0.400	0.0005	111	84-125			
Arsenic, total	0.208	0.0005 mg/L	0.200	< 0.0005	104	85-116			
Barium, total	0.982	0.005 mg/L	1.00	0.019	96	87-114			
Beryllium, total	0.0903	0.0001 mg/L	0.100	< 0.0001	90	72-116			
Cadmium, total	0.0992	0.00001 mg/L	0.100	0.00001	99	90-112			
Chromium, total	0.416	0.0005 mg/L	0.400	0.0012	104	89-120			
Cobalt, total	0.419	0.00005 mg/L	0.400	0.00048	105	88-120			
Copper, total	0.429	0.0002 mg/L	0.400	0.0025	107	88-125			
Iron, total	2.44	0.01 mg/L	2.00	0.39	102	88-119			
Lead, total	0.210	0.0001 mg/L	0.200	0.0003	105	89-118			
Manganese, total	0.423	0.0002 mg/L	0.400	0.0363	97	84-120			
Nickel, total	0.411	0.0002 mg/L	0.400	0.0013	102	87-119			
Selenium, total	0.106	0.0005 mg/L	0.100	< 0.0005	106	85-113			
Silver, total	0.111	0.00005 mg/L	0.100	< 0.00005	111	89-119			
Thallium, total	0.103	0.00002 mg/L	0.100	< 0.00002	103	92-119			
Vanadium, total	0.396	0.001 mg/L	0.400	0.002	99	87-117			
Zinc, total	1.03	0.004 mg/L	1.00	< 0.004	103	85-116			
Reference (B6K0359-SRM1)		Prepared: 2016-11-04, Analyzed: 2016-11-08							
Aluminum, total	0.294	0.005 mg/L	0.303		97	81-129			
Antimony, total	0.0575	0.0001 mg/L	0.0511		112	88-114			
Arsenic, total	0.123	0.0005 mg/L	0.118		105	88-114			
Barium, total	0.778	0.005 mg/L	0.823		95	72-104			
Beryllium, total	0.0459	0.0001 mg/L	0.0496		92	76-131			
Boron, total	3.24	0.004 mg/L	3.45		94	75-121			
Cadmium, total	0.0512	0.00001 mg/L	0.0495		103	89-111			
Calcium, total	11.6	0.2 mg/L	11.6		100	86-121			
Chromium, total	0.261	0.0005 mg/L	0.250		104	89-114			
Cobalt, total	0.0413	0.00005 mg/L	0.0377		109	91-113			
Copper, total	0.542	0.0002 mg/L	0.486		111	91-115			
Iron, total	0.53	0.01 mg/L	0.488		108	77-124			
Lead, total	0.217	0.0001 mg/L	0.204		107	92-113			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110232
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B6K0359, Continued									
Reference (B6K0359-SRM1), Continued					Prepared: 2016-11-04, Analyzed: 2016-11-08				
Lithium, total	0.347	0.0001 mg/L	0.403		86	85-115			
Magnesium, total	4.44	0.01 mg/L	3.79		117	78-120			
Manganese, total	0.109	0.0002 mg/L	0.109		100	90-114			
Molybdenum, total	0.208	0.0001 mg/L	0.198		105	90-111			
Nickel, total	0.263	0.0002 mg/L	0.249		106	90-111			
Phosphorus, total	0.26	0.02 mg/L	0.227		114	85-115			
Potassium, total	7.52	0.02 mg/L	7.21		104	84-113			
Selenium, total	0.133	0.0005 mg/L	0.121		110	85-115			
Sodium, total	8.11	0.02 mg/L	7.54		108	82-123			
Strontium, total	0.362	0.001 mg/L	0.375		97	88-112			
Thallium, total	0.0868	0.00002 mg/L	0.0805		108	91-114			
Uranium, total	0.0326	0.00002 mg/L	0.0306		107	85-120			
Vanadium, total	0.400	0.001 mg/L	0.386		104	86-111			
Zinc, total	2.67	0.004 mg/L	2.49		107	85-111			

Volatile Organic Compounds (VOC), Batch B6K0228

Blank (B6K0228-BLK1)			Prepared: 2016-11-03, Analyzed: 2016-11-03						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 1.0	1.0 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Chloromethane	< 2.0	2.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
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	26.2	µg/L	25.0		105	70-130			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110232
2016-11-10

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Volatile Organic Compounds (VOC), Batch B6K0228, Continued									
Blank (B6K0228-BLK1), Continued					Prepared: 2016-11-03, Analyzed: 2016-11-03				
Surrogate: 4-Bromofluorobenzene	26.9	µg/L	25.0		107	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	26.3	µg/L	25.0		105	70-130			
LCS (B6K0228-BS1)					Prepared: 2016-11-03, Analyzed: 2016-11-03				
Benzene	22.9	0.5 µg/L	20.0		115	70-130			
Bromodichloromethane	22.7	1.0 µg/L	20.0		114	70-130			
Bromoform	22.1	1.0 µg/L	20.0		111	70-130			
Bromomethane	28.1	2.0 µg/L	20.0		140	70-130			
Carbon tetrachloride	22.8	1.0 µg/L	20.0		114	70-130			
Chlorobenzene	23.8	1.0 µg/L	20.0		119	70-130			
Chloroethane	19.3	2.0 µg/L	20.0		97	70-130			
Chloroform	23.6	1.0 µg/L	20.0		118	70-130			
Chloromethane	22.5	2.0 µg/L	20.0		112	70-130			
Dibromochloromethane	20.9	1.0 µg/L	20.0		104	70-130			
1,2-Dibromoethane	21.4	0.3 µg/L	20.0		107	70-130			
Dibromomethane	21.2	1.0 µg/L	20.0		106	70-130			
1,2-Dichlorobenzene	24.0	0.5 µg/L	20.0		120	70-130			
1,3-Dichlorobenzene	22.3	1.0 µg/L	20.0		112	70-130			
1,4-Dichlorobenzene	23.5	1.0 µg/L	20.0		117	70-130			
1,1-Dichloroethane	23.6	1.0 µg/L	20.0		118	70-130			
1,2-Dichloroethane	23.2	1.0 µg/L	20.0		116	70-130			
1,1-Dichloroethene	22.0	1.0 µg/L	20.0		110	70-130			
cis-1,2-Dichloroethene	21.8	1.0 µg/L	20.0		109	70-130			
trans-1,2-Dichloroethene	21.6	1.0 µg/L	20.0		108	70-130			
1,2-Dichloropropane	22.8	1.0 µg/L	20.0		114	70-130			
cis-1,3-Dichloropropene	21.4	1.0 µg/L	20.0		107	70-130			
trans-1,3-Dichloropropene	20.7	1.0 µg/L	20.0		104	70-130			
Ethylbenzene	22.9	1.0 µg/L	20.0		114	70-130			
Methyl tert-butyl ether	19.7	1.0 µg/L	20.0		98	70-130			
Methylene chloride	22.4	3.0 µg/L	20.0		112	70-130			
Styrene	23.9	1.0 µg/L	20.0		120	70-130			
1,1,1,2-Tetrachloroethane	21.5	1.0 µg/L	20.0		108	70-130			
1,1,2,2-Tetrachloroethane	23.8	1.0 µg/L	20.0		119	70-130			
Tetrachloroethene	22.7	1.0 µg/L	20.0		114	70-130			
Toluene	22.6	1.0 µg/L	20.0		113	70-130			
1,1,1-Trichloroethane	23.1	1.0 µg/L	20.0		116	70-130			
1,1,2-Trichloroethane	23.6	1.0 µg/L	20.0		118	70-130			
Trichloroethene	23.8	1.0 µg/L	20.0		119	70-130			
Trichlorofluoromethane	21.4	1.0 µg/L	20.0		107	70-130			
Vinyl chloride	22.6	2.0 µg/L	20.0		113	70-130			
Xylenes (total)	70.8	2.0 µg/L	60.0		118	70-130			
Surrogate: Toluene-d8	27.7	µg/L	25.0		111	70-130			
Surrogate: 4-Bromofluorobenzene	26.6	µg/L	25.0		106	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	28.7	µg/L	25.0		115	70-130			

QC Qualifiers:

BLK Analyte concentration in the Method Blank is above the Method Reporting Limit (MRL).

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		6110232-01	6110232-02
		Water	Water
		2016-11-02	2016-11-02
		1	2
Anions	Chloride (mg/L)	64.1	65.3
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.427	0.746
	Nitrite (as N) (mg/L)	< 0.100	< 0.010
	Sulfate (mg/L)	96.3	126
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	51	68
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	51	68
	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)	518	591
	pH (pH units)	7.49	7.57
	Solids, Total Dissolved (mg/L)	323	365
	Solids, Total Suspended (mg/L)	21	6
	Turbidity (NTU)	37.1	12.8
Calculated Parameters	Chromium, Trivalent (mg/L)	0.004	0.001
	Hardness, Total (as CaCO3) (mg/L)	169	212
Dissolved Metals	Aluminum, dissolved (mg/L)	0.021	0.011
	Antimony, dissolved (mg/L)	0.0003	0.0002
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.012	0.017
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.022	0.027
	Cadmium, dissolved (mg/L)	0.00004	0.00002
	Calcium, dissolved (mg/L)	52.3	65.9
	Chromium, dissolved (mg/L)	< 0.0005	< 0.0005
	Cobalt, dissolved (mg/L)	0.00014	0.00013
	Copper, dissolved (mg/L)	0.0009	0.0013
	Iron, dissolved (mg/L)	0.011	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0002	0.0002
	Magnesium, dissolved (mg/L)	9.34	11.6
	Manganese, dissolved (mg/L)	0.0171	0.0144
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0008	0.0014
	Nickel, dissolved (mg/L)	0.0010	0.0008
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	1.70	1.93
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	2.9	4.0
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005

REPORTED TO PROJECT Allterra Construction
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WORK ORDER REPORTED 6110232
2016-11-10

		6110232-01	6110232-02
		Water	Water
		2016-11-02	2016-11-02
		1	2
Dissolved Metals	Sodium, dissolved (mg/L)	36.3	35.6
	Strontium, dissolved (mg/L)	0.188	0.226
	Sulfur, dissolved (mg/L)	30	38
	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)	0.00055	0.00086
	Vanadium, dissolved (mg/L)	< 0.001	< 0.001
	Zinc, dissolved (mg/L)	0.017	0.006
	Zirconium, dissolved (mg/L)	< 0.0001	< 0.0001
Total Metals	Aluminum, total (mg/L)	1.62	0.342
	Antimony, total (mg/L)	0.0004	0.0005
	Arsenic, total (mg/L)	0.0005	< 0.0005
	Barium, total (mg/L)	0.020	0.019
	Beryllium, total (mg/L)	< 0.0001	< 0.0001
	Bismuth, total (mg/L)	< 0.0001	< 0.0001
	Boron, total (mg/L)	0.036	0.036
	Cadmium, total (mg/L)	0.00002	0.00001
	Calcium, total (mg/L)	54.7	68.1
	Chromium, total (mg/L)	0.0041	0.0012
	Cobalt, total (mg/L)	0.00105	0.00048
	Copper, total (mg/L)	0.0049	0.0025
	Iron, total (mg/L)	1.97	0.39
	Lead, total (mg/L)	0.0010	0.0003
	Lithium, total (mg/L)	0.0010	0.0004
	Magnesium, total (mg/L)	10.2	11.7
	Manganese, total (mg/L)	0.0434	0.0363
	Mercury, total (mg/L)	< 0.00002	< 0.00002
	Molybdenum, total (mg/L)	0.0009	0.0014
	Nickel, total (mg/L)	0.0034	0.0013
	Phosphorus, total (mg/L)	0.07	0.05
	Potassium, total (mg/L)	1.93	2.01
	Selenium, total (mg/L)	< 0.0005	< 0.0005
	Silicon, total (mg/L)	5.3	4.4
	Silver, total (mg/L)	< 0.00005	< 0.00005
	Sodium, total (mg/L)	37.5	36.2
	Strontium, total (mg/L)	0.201	0.231
	Sulfur, total (mg/L)	31	40
	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)	0.083	0.015

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WORK ORDER REPORTED 6110232
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		6110232-01	6110232-02
		Water	Water
		2016-11-02	2016-11-02
		1	2
Total Metals	Uranium, total (mg/L)	0.00062	0.00086
	Vanadium, total (mg/L)	0.006	0.002
	Zinc, total (mg/L)	0.007	< 0.004
	Zirconium, total (mg/L)	0.0002	< 0.0001
BCMOE Aggregate Hydrocarbons	EPHw10-19 (ug/L)	< 250	< 250
	EPHw19-32 (ug/L)	< 250	< 250
	LEPHw (ug/L)	< 250	< 250
	HEPHw (ug/L)	< 250	< 250
	Sur: 2-Methylnonane (%)	93	89
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 (%)	99	100
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 (%)	55	56
	Sur: Naphthalene-d8 (%)	96	96
Sur: Perylene-d12 (%)	117	111	
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

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WORK ORDER REPORTED 6110232
2016-11-10

		6110232-01	6110232-02
		Water	Water
		2016-11-02	2016-11-02
		1	2
Volatile Organic Compounds (VOC)	1,2-Dibromoethane (ug/L)	< 0.3	< 0.3
	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)	< 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 (%)	104	103
	Sur: 4-Bromofluorobenzene (%)	99	100
	Sur: 1,4-Dichlorobenzene-d4 (%)	92	89

Client Information Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	Project Information SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5	Laboratory Information CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	COC Information Number: B33100 Shipped via: Harbour Air
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#1	1 (Template: 01) 11/02/2016 08:15 Grab / Water	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 Comments: Cr Speciation Required 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) (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 (Template: 01) 11/02/2016 08:30 Grab / Water	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 Comments: Cr Speciation Required 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) (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 Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	Project Information SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5	Laboratory Information CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	COC Information Number: B33100 Shipped via: Harbour Air
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#1	1 (Template: 01) 11/02/2016 08:15 Grab / Water	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 Comments: Cr Speciation Required 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) (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 (Template: 01) 11/02/2016 08:30 Grab / Water	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 Comments: Cr Speciation Required 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

Relinquished by	Date/Time	Accepted by	Date/Time
		HM Other 6.3	11/2/16
			17:40