

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

**TEL** (250) 508-0726  
**FAX**

**ATTENTION** Rahim Gaidhar

**WORK ORDER** 6111669

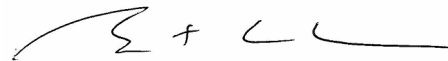
**PO NUMBER** P15-06 SIRM  
**PROJECT** SIRM 460 Stebbings  
**PROJECT INFO**

**RECEIVED / TEMP** 2016-11-23 14:00 / 7°C  
**REPORTED** 2016-11-30  
**COC NUMBER** 20161123-B

**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](http://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
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 (6111669-01) [Water] Sampled: 2016-11-22 14:00**

**Anions**

Chloride	80.8	± 3.7	0.10	mg/L	N/A	2016-11-25	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-25	
Nitrate (as N)	0.252	± 0.032	0.010	mg/L	N/A	2016-11-25	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-11-25	
Sulfate	79.3	± 9.4	1.0	mg/L	N/A	2016-11-25	

**General Parameters**

Alkalinity, Total (as CaCO3)	49	± 3	1	mg/L	N/A	2016-11-24	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-11-24	
Alkalinity, Bicarbonate (as CaCO3)	49	± 3	1	mg/L	N/A	2016-11-24	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-11-24	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-11-24	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2016-11-24	
Colour, True	< 5		5	CU	N/A	2016-11-25	
Conductivity (EC)	553	± 9	2	µS/cm	N/A	2016-11-24	
pH	7.66	± 0.02	0.01	pH units	N/A	2016-11-24	HT2
Solids, Total Dissolved	320	± 30	10	mg/L	N/A	2016-11-25	
Solids, Total Suspended	35	± 3	2	mg/L	N/A	2016-11-24	
Turbidity	61.5	± 2.8	0.10	NTU	N/A	2016-11-25	

**Calculated Parameters**

Chromium, Trivalent	0.007		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	166		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-29	
Antimony, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-11-29	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-29	
Barium, dissolved	0.010	± 0.001	0.005	mg/L	N/A	2016-11-29	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Boron, dissolved	0.025	± 0.005	0.004	mg/L	N/A	2016-11-29	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-11-29	
Calcium, dissolved	49.6	± 8.0	0.2	mg/L	N/A	2016-11-29	
Chromium, dissolved	0.0009	± 0.0002	0.0005	mg/L	N/A	2016-11-29	
Cobalt, dissolved	0.00006	± 0.00001	0.00005	mg/L	N/A	2016-11-29	
Copper, dissolved	0.0008	± 0.0003	0.0002	mg/L	N/A	2016-11-29	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-11-29	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Lithium, dissolved	0.0002		0.0001	mg/L	N/A	2016-11-29	
Magnesium, dissolved	10.3	± 1.8	0.01	mg/L	N/A	2016-11-29	
Manganese, dissolved	0.0121	± 0.0015	0.0002	mg/L	N/A	2016-11-29	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-28	2016-11-29	
Molybdenum, dissolved	0.0008	± 0.0001	0.0001	mg/L	N/A	2016-11-29	
Nickel, dissolved	0.0004	± 0.0002	0.0002	mg/L	N/A	2016-11-29	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-29	

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**Sample ID: 1 (6111669-01) [Water] Sampled: 2016-11-22 14:00, Continued**

***Dissolved Metals, Continued***

Potassium, dissolved	1.68	± 0.25	0.02	mg/L	N/A	2016-11-29	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-29	
Silicon, dissolved	2.5	± 1.2	0.5	mg/L	N/A	2016-11-29	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-29	
Sodium, dissolved	39.6	± 6.4	0.02	mg/L	N/A	2016-11-29	
Strontium, dissolved	0.187	± 0.020	0.001	mg/L	N/A	2016-11-29	
Sulfur, dissolved	27	± 6100	1	mg/L	N/A	2016-11-29	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-29	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-29	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-29	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-29	
Uranium, dissolved	0.00045	± 0.00006	0.00002	mg/L	N/A	2016-11-29	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-29	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-11-29	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	

***Total Metals***

Aluminum, total	3.20	± 0.56	0.005	mg/L	2016-11-25	2016-11-25	
Antimony, total	0.0004	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Arsenic, total	0.0008	± 0.0001	0.0005	mg/L	2016-11-25	2016-11-25	
Barium, total	0.031	± 0.004	0.005	mg/L	2016-11-25	2016-11-25	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	
Boron, total	0.031	± 0.006	0.004	mg/L	2016-11-25	2016-11-25	
Cadmium, total	0.00002	± 0.00002	0.00001	mg/L	2016-11-25	2016-11-25	
Calcium, total	56.0	± 6.5	0.2	mg/L	2016-11-25	2016-11-25	
Chromium, total	0.0066	± 0.0008	0.0005	mg/L	2016-11-25	2016-11-25	
Cobalt, total	0.00157	± 0.00014	0.00005	mg/L	2016-11-25	2016-11-25	
Copper, total	0.0069	± 0.0007	0.0002	mg/L	2016-11-25	2016-11-25	
Iron, total	3.23	± 0.61	0.01	mg/L	2016-11-25	2016-11-25	
Lead, total	0.0016	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Lithium, total	0.0019	± 0.0003	0.0001	mg/L	2016-11-25	2016-11-25	
Magnesium, total	12.0	± 1.7	0.01	mg/L	2016-11-25	2016-11-25	
Manganese, total	0.0656	± 0.0057	0.0002	mg/L	2016-11-25	2016-11-25	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-28	2016-11-29	
Molybdenum, total	0.0009	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Nickel, total	0.0048	± 0.0004	0.0002	mg/L	2016-11-25	2016-11-25	
Phosphorus, total	0.08	± 12.83	0.02	mg/L	2016-11-25	2016-11-25	
Potassium, total	2.13	± 0.23	0.02	mg/L	2016-11-25	2016-11-25	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-25	2016-11-25	
Silicon, total	10.2	± 3.5	0.5	mg/L	2016-11-25	2016-11-25	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-25	2016-11-25	
Sodium, total	42.8	± 6.0	0.02	mg/L	2016-11-25	2016-11-25	
Strontium, total	0.205	± 0.017	0.001	mg/L	2016-11-25	2016-11-25	
Sulfur, total	28	± 1970	1	mg/L	2016-11-25	2016-11-25	

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Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 1 (6111669-01) [Water] Sampled: 2016-11-22 14:00, Continued**

**Total Metals, Continued**

Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-25	2016-11-25	
Thallium, total	< 0.00002		0.00002	mg/L	2016-11-25	2016-11-25	
Thorium, total	<b>0.0001</b>		0.0001	mg/L	2016-11-25	2016-11-25	
Tin, total	< 0.0002		0.0002	mg/L	2016-11-25	2016-11-25	
Titanium, total	<b>0.172</b>	± 0.022	0.005	mg/L	2016-11-25	2016-11-25	
Uranium, total	<b>0.00058</b>	± 0.00004	0.00002	mg/L	2016-11-25	2016-11-25	
Vanadium, total	<b>0.009</b>	± 0.001	0.001	mg/L	2016-11-25	2016-11-25	
Zinc, total	<b>0.006</b>	± 0.002	0.004	mg/L	2016-11-25	2016-11-25	
Zirconium, total	<b>0.0018</b>	± 0.0004	0.0001	mg/L	2016-11-25	2016-11-25	

**BCMEOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-11-28	2016-11-29	
EPHw19-32	< 250		250	µg/L	2016-11-28	2016-11-29	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	88		60-140	%	2016-11-28	2016-11-29	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Surrogate: Tetramethylene Glycol	106		66-125	%	N/A	2016-11-30	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-28	2016-11-29	
Acridine	< 0.10		0.10	µg/L	2016-11-28	2016-11-29	
Anthracene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Chrysene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-28	2016-11-29	
Fluorene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Naphthalene	< 0.20		0.20	µg/L	2016-11-28	2016-11-29	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-28	2016-11-29	
Pyrene	< 0.02		0.02	µg/L	2016-11-28	2016-11-29	
Quinoline	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Surrogate: Acridine-d9	60		60-130	%	2016-11-28	2016-11-29	
Surrogate: Naphthalene-d8	93		60-130	%	2016-11-28	2016-11-29	
Surrogate: Perylene-d12	90		60-130	%	2016-11-28	2016-11-29	

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**Sample ID: 1 (6111669-01) [Water] Sampled: 2016-11-22 14:00, Continued**

<b>Volatile Organic Compounds (VOC)</b>							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-28	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-28	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-28	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-28	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-28	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-28	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-28	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-28	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-28	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-28	
Surrogate: Toluene-d8	103		70-130	%	N/A	2016-11-28	
Surrogate: 4-Bromofluorobenzene	111		70-130	%	N/A	2016-11-28	
Surrogate: 1,4-Dichlorobenzene-d4	107		70-130	%	N/A	2016-11-28	

**Sample ID: 2 (6111669-02) [Water] Sampled: 2016-11-22 14:15**

<b>Anions</b>							
Chloride	83.7 ± 3.8		0.10	mg/L	N/A	2016-11-24	

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2 (6111669-02) [Water] Sampled: 2016-11-22 14:15, Continued**

**Anions, Continued**

Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-24	
Nitrate (as N)	<b>0.568</b>	± 0.071	0.010	mg/L	N/A	2016-11-24	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-11-24	
Sulfate	<b>126</b>	± 15	1.0	mg/L	N/A	2016-11-24	

**General Parameters**

Alkalinity, Total (as CaCO <sub>3</sub> )	<b>90</b>	± 5	1	mg/L	N/A	2016-11-24	
Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2016-11-24	
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	<b>90</b>	± 5	1	mg/L	N/A	2016-11-24	
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2016-11-24	
Alkalinity, Hydroxide (as CaCO <sub>3</sub> )	< 1		1	mg/L	N/A	2016-11-24	
Chromium, Hexavalent	<b>0.001</b>	± 0.002	0.001	mg/L	N/A	2016-11-24	
Colour, True	< 5		5	CU	N/A	2016-11-25	
Conductivity (EC)	<b>709</b>	± 11	2	µS/cm	N/A	2016-11-24	
pH	<b>7.62</b>	± 0.02	0.01	pH units	N/A	2016-11-24	HT2
Solids, Total Dissolved	<b>436</b>	± 40	10	mg/L	N/A	2016-11-25	
Solids, Total Suspended	<b>6</b>	± 1	2	mg/L	N/A	2016-11-24	
Turbidity	<b>9.15</b>	± 0.42	0.10	NTU	N/A	2016-11-25	

**Calculated Parameters**

Chromium, Trivalent	< 0.001		0.001	mg/L	N/A	N/A	
Hardness, Total (as CaCO <sub>3</sub> )	<b>252</b>		0.50	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-29	
Antimony, dissolved	<b>0.0003</b>	± 0.0001	0.0001	mg/L	N/A	2016-11-29	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-29	
Barium, dissolved	<b>0.019</b>	± 0.003	0.005	mg/L	N/A	2016-11-29	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Boron, dissolved	<b>0.031</b>	± 0.006	0.004	mg/L	N/A	2016-11-29	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-11-29	
Calcium, dissolved	<b>78.5</b>	± 12.7	0.2	mg/L	N/A	2016-11-29	
Chromium, dissolved	<b>0.0009</b>	± 0.0002	0.0005	mg/L	N/A	2016-11-29	
Cobalt, dissolved	<b>0.00007</b>	± 0.00001	0.00005	mg/L	N/A	2016-11-29	
Copper, dissolved	<b>0.0013</b>	± 0.0004	0.0002	mg/L	N/A	2016-11-29	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-11-29	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Lithium, dissolved	<b>0.0002</b>		0.0001	mg/L	N/A	2016-11-29	
Magnesium, dissolved	<b>13.7</b>	± 2.3	0.01	mg/L	N/A	2016-11-29	
Manganese, dissolved	<b>0.0025</b>	± 0.0004	0.0002	mg/L	N/A	2016-11-29	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-28	2016-11-29	
Molybdenum, dissolved	<b>0.0015</b>	± 0.0001	0.0001	mg/L	N/A	2016-11-29	
Nickel, dissolved	<b>0.0008</b>	± 0.0002	0.0002	mg/L	N/A	2016-11-29	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-29	
Potassium, dissolved	<b>1.91</b>	± 0.28	0.02	mg/L	N/A	2016-11-29	



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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2 (6111669-02) [Water] Sampled: 2016-11-22 14:15, Continued**

***Dissolved Metals, Continued***

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-29	
Silicon, dissolved	<b>4.6</b>	± 2.2	0.5	mg/L	N/A	2016-11-29	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-29	
Sodium, dissolved	<b>38.4</b>	± 6.2	0.02	mg/L	N/A	2016-11-29	
Strontium, dissolved	<b>0.277</b>	± 0.030	0.001	mg/L	N/A	2016-11-29	
Sulfur, dissolved	<b>41</b>	± 9250	1	mg/L	N/A	2016-11-29	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-29	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-29	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-29	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-29	
Uranium, dissolved	<b>0.00103</b>	± 0.00014	0.00002	mg/L	N/A	2016-11-29	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-29	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-11-29	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-29	

***Total Metals***

Aluminum, total	<b>0.355</b>	± 0.063	0.005	mg/L	2016-11-25	2016-11-25	
Antimony, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-11-25	2016-11-25	
Barium, total	<b>0.023</b>	± 0.003	0.005	mg/L	2016-11-25	2016-11-25	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	
Boron, total	<b>0.036</b>	± 0.007	0.004	mg/L	2016-11-25	2016-11-25	
Cadmium, total	< 0.00001		0.00001	mg/L	2016-11-25	2016-11-25	
Calcium, total	<b>89.3</b>	± 10.4	0.2	mg/L	2016-11-25	2016-11-25	
Chromium, total	<b>0.0014</b>	± 0.0002	0.0005	mg/L	2016-11-25	2016-11-25	
Cobalt, total	<b>0.00064</b>	± 0.00006	0.00005	mg/L	2016-11-25	2016-11-25	
Copper, total	<b>0.0023</b>	± 0.0002	0.0002	mg/L	2016-11-25	2016-11-25	
Iron, total	<b>0.41</b>	± 0.08	0.01	mg/L	2016-11-25	2016-11-25	
Lead, total	<b>0.0003</b>	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Lithium, total	<b>0.0004</b>	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Magnesium, total	<b>14.5</b>	± 2.1	0.01	mg/L	2016-11-25	2016-11-25	
Manganese, total	<b>0.0543</b>	± 0.0047	0.0002	mg/L	2016-11-25	2016-11-25	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-28	2016-11-29	
Molybdenum, total	<b>0.0017</b>	± 0.0001	0.0001	mg/L	2016-11-25	2016-11-25	
Nickel, total	<b>0.0014</b>	± 0.0001	0.0002	mg/L	2016-11-25	2016-11-25	
Phosphorus, total	< 0.02		0.02	mg/L	2016-11-25	2016-11-25	
Potassium, total	<b>1.99</b>	± 0.21	0.02	mg/L	2016-11-25	2016-11-25	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-25	2016-11-25	
Silicon, total	<b>5.6</b>	± 1.9	0.5	mg/L	2016-11-25	2016-11-25	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-25	2016-11-25	
Sodium, total	<b>40.9</b>	± 5.7	0.02	mg/L	2016-11-25	2016-11-25	
Strontium, total	<b>0.295</b>	± 0.025	0.001	mg/L	2016-11-25	2016-11-25	
Sulfur, total	<b>43</b>	± 3010	1	mg/L	2016-11-25	2016-11-25	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-25	2016-11-25	

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**Sample ID: 2 (6111669-02) [Water] Sampled: 2016-11-22 14:15, Continued**

**Total Metals, Continued**

Thallium, total	< 0.00002		0.00002	mg/L	2016-11-25	2016-11-25	
Thorium, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	
Tin, total	< 0.0002		0.0002	mg/L	2016-11-25	2016-11-25	
Titanium, total	<b>0.020</b>	± 0.003	0.005	mg/L	2016-11-25	2016-11-25	
Uranium, total	<b>0.00120</b>	± 0.00007	0.00002	mg/L	2016-11-25	2016-11-25	
Vanadium, total	<b>0.002</b>		0.001	mg/L	2016-11-25	2016-11-25	
Zinc, total	< 0.004		0.004	mg/L	2016-11-25	2016-11-25	
Zirconium, total	< 0.0001		0.0001	mg/L	2016-11-25	2016-11-25	

**BCMOE Aggregate Hydrocarbons**

EPHw10-19	< 250		250	µg/L	2016-11-28	2016-11-29	
EPHw19-32	< 250		250	µg/L	2016-11-28	2016-11-29	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	80		60-140	%	2016-11-28	2016-11-29	

**Glycols**

Propylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-30	
Surrogate: Tetramethylene Glycol	108		66-125	%	N/A	2016-11-30	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-28	2016-11-29	
Acridine	< 0.10		0.10	µg/L	2016-11-28	2016-11-29	
Anthracene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-28	2016-11-29	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Chrysene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-28	2016-11-29	
Fluorene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Naphthalene	< 0.20		0.20	µg/L	2016-11-28	2016-11-29	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-28	2016-11-29	
Pyrene	< 0.02		0.02	µg/L	2016-11-28	2016-11-29	
Quinoline	< 0.05		0.05	µg/L	2016-11-28	2016-11-29	
Surrogate: Acridine-d9	52		60-130	%	2016-11-28	2016-11-29	S02
Surrogate: Naphthalene-d8	96		60-130	%	2016-11-28	2016-11-29	
Surrogate: Perylene-d12	103		60-130	%	2016-11-28	2016-11-29	

**Volatile Organic Compounds (VOC)**

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Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: 2 (6111669-02) [Water] Sampled: 2016-11-22 14:15, Continued**

<i>Volatile Organic Compounds (VOC), Continued</i>							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-28	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-28	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-28	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-28	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-28	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-28	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-28	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-28	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-28	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-28	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-28	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-28	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-28	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-28	
Surrogate: Toluene-d8	106		70-130	%	N/A	2016-11-28	
Surrogate: 4-Bromofluorobenzene	112		70-130	%	N/A	2016-11-28	
Surrogate: 1,4-Dichlorobenzene-d4	107		70-130	%	N/A	2016-11-28	

**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
<b>Anions, Batch B6K1581</b>									
<b>Blank (B6K1581-BLK1)</b>					Prepared: 2016-11-25, Analyzed: 2016-11-25				
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
<b>Blank (B6K1581-BLK2)</b>					Prepared: 2016-11-25, Analyzed: 2016-11-25				
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
<b>LCS (B6K1581-BS1)</b>					Prepared: 2016-11-25, Analyzed: 2016-11-25				
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	3.98	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	4.20	0.010 mg/L	4.00		105	93-108			
Nitrite (as N)	1.90	0.010 mg/L	2.00		95	83-110			
Sulfate	15.7	1.0 mg/L	16.0		98	91-109			
<b>LCS (B6K1581-BS2)</b>					Prepared: 2016-11-25, Analyzed: 2016-11-25				
Chloride	16.2	0.10 mg/L	16.0		101	90-110			
Fluoride	3.82	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	4.29	0.010 mg/L	4.00		107	93-108			
Nitrite (as N)	1.93	0.010 mg/L	2.00		96	83-110			
Sulfate	15.7	1.0 mg/L	16.0		98	91-109			
<b>Anions, Batch B6K1608</b>									
<b>Blank (B6K1608-BLK1)</b>					Prepared: 2016-11-24, Analyzed: 2016-11-24				
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/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
<b>Anions, Batch B6K1608, Continued</b>									
<b>Blank (B6K1608-BLK1), Continued</b> Prepared: 2016-11-24, Analyzed: 2016-11-24									
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
<b>Blank (B6K1608-BLK2)</b> Prepared: 2016-11-25, Analyzed: 2016-11-25									
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
<b>LCS (B6K1608-BS1)</b> Prepared: 2016-11-24, Analyzed: 2016-11-24									
Chloride	16.1	0.10 mg/L	16.0		100	90-110			
Fluoride	4.06	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	4.16	0.010 mg/L	4.00		104	93-108			
Nitrite (as N)	1.91	0.010 mg/L	2.00		95	83-110			
Sulfate	16.4	1.0 mg/L	16.0		103	91-109			
<b>LCS (B6K1608-BS2)</b> Prepared: 2016-11-25, Analyzed: 2016-11-25									
Chloride	16.4	0.10 mg/L	16.0		102	90-110			
Fluoride	4.21	0.10 mg/L	4.00		105	88-108			
Nitrate (as N)	4.29	0.010 mg/L	4.00		107	93-108			
Nitrite (as N)	1.95	0.010 mg/L	2.00		98	83-110			
Sulfate	16.9	1.0 mg/L	16.0		105	91-109			
<b>BCMOE Aggregate Hydrocarbons, Batch B6K1783</b>									
<b>Blank (B6K1783-BLK1)</b> Prepared: 2016-11-28, Analyzed: 2016-11-29									
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane	360	µg/L	444		81	60-140			
<b>LCS (B6K1783-BS2)</b> Prepared: 2016-11-28, Analyzed: 2016-11-29									
EPHw10-19	15000	250 µg/L	15600		96	70-130			
EPHw19-32	17800	250 µg/L	22200		80	70-130			
Surrogate: 2-Methylnonane	419	µg/L	444		94	60-140			
<b>Dissolved Metals, Batch B6K1764</b>									
<b>Blank (B6K1764-BLK1)</b> Prepared: 2016-11-29, Analyzed: 2016-11-29									
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							

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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 B6K1764, Continued**

**Blank (B6K1764-BLK1), Continued**

Prepared: 2016-11-29, Analyzed: 2016-11-29

Manganese, dissolved	< 0.0002	0.0002 mg/L							
Molybdenum, dissolved	< 0.0001	0.0001 mg/L							
Nickel, dissolved	< 0.0002	0.0002 mg/L							
Phosphorus, dissolved	< 0.02	0.02 mg/L							
Potassium, dissolved	< 0.02	0.02 mg/L							
Selenium, dissolved	< 0.0005	0.0005 mg/L							
Silicon, dissolved	< 0.5	0.5 mg/L							
Silver, dissolved	< 0.00005	0.00005 mg/L							
Sodium, dissolved	< 0.02	0.02 mg/L							
Strontium, dissolved	< 0.001	0.001 mg/L							
Sulfur, dissolved	< 1	1 mg/L							
Tellurium, dissolved	< 0.0002	0.0002 mg/L							
Thallium, dissolved	< 0.00002	0.00002 mg/L							
Thorium, dissolved	< 0.0001	0.0001 mg/L							
Tin, dissolved	< 0.0002	0.0002 mg/L							
Titanium, dissolved	< 0.005	0.005 mg/L							
Uranium, dissolved	< 0.00002	0.00002 mg/L							
Vanadium, dissolved	< 0.001	0.001 mg/L							
Zinc, dissolved	< 0.004	0.004 mg/L							
Zirconium, dissolved	< 0.0001	0.0001 mg/L							

**Reference (B6K1764-SRM1)**

Prepared: 2016-11-29, Analyzed: 2016-11-29

Aluminum, dissolved	0.219	0.005 mg/L	0.233		94	58-142			
Antimony, dissolved	0.0434	0.0001 mg/L	0.0430		101	75-125			
Arsenic, dissolved	0.429	0.0005 mg/L	0.438		98	81-119			
Barium, dissolved	3.22	0.005 mg/L	3.35		96	83-117			
Beryllium, dissolved	0.204	0.0001 mg/L	0.213		96	80-120			
Boron, dissolved	1.72	0.004 mg/L	1.74		99	74-117			
Cadmium, dissolved	0.211	0.00001 mg/L	0.224		94	83-117			
Calcium, dissolved	7.6	0.2 mg/L	7.69		99	76-124			
Chromium, dissolved	0.432	0.0005 mg/L	0.437		99	81-119			
Cobalt, dissolved	0.128	0.00005 mg/L	0.128		100	76-124			
Copper, dissolved	0.837	0.0002 mg/L	0.844		99	84-116			
Iron, dissolved	1.25	0.010 mg/L	1.29		97	74-126			
Lead, dissolved	0.109	0.0001 mg/L	0.112		98	72-128			
Lithium, dissolved	0.101	0.0001 mg/L	0.104		97	60-140			
Magnesium, dissolved	6.87	0.01 mg/L	6.92		99	81-119			
Manganese, dissolved	0.336	0.0002 mg/L	0.345		97	84-116			
Molybdenum, dissolved	0.407	0.0001 mg/L	0.426		95	83-117			
Nickel, dissolved	0.831	0.0002 mg/L	0.840		99	74-126			
Phosphorus, dissolved	0.45	0.02 mg/L	0.495		91	68-132			
Potassium, dissolved	3.13	0.02 mg/L	3.19		98	74-126			
Selenium, dissolved	0.0328	0.0005 mg/L	0.0331		99	70-130			
Sodium, dissolved	18.2	0.02 mg/L	19.1		95	72-128			
Strontium, dissolved	0.870	0.001 mg/L	0.916		95	84-113			
Thallium, dissolved	0.0377	0.00002 mg/L	0.0393		96	57-143			
Uranium, dissolved	0.255	0.00002 mg/L	0.266		96	85-115			
Vanadium, dissolved	0.831	0.001 mg/L	0.869		96	87-113			
Zinc, dissolved	0.842	0.004 mg/L	0.881		96	72-128			

**Dissolved Metals, Batch B6K1818**

**Blank (B6K1818-BLK1)**

Prepared: 2016-11-28, Analyzed: 2016-11-29

Mercury, dissolved	< 0.00002	0.00002 mg/L							
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**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Allterra Construction  
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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6K1818, Continued</b>									
<b>Duplicate (B6K1818-DUP1)</b>		<b>Source: 6111669-01</b>		Prepared: 2016-11-28, Analyzed: 2016-11-29					
Mercury, dissolved	< 0.00002	0.00002 mg/L		< 0.00002				20	
<b>Reference (B6K1818-SRM1)</b>				Prepared: 2016-11-28, Analyzed: 2016-11-29					
Mercury, dissolved	0.00429	0.00002 mg/L	0.00489		88	50-150			
<b>General Parameters, Batch B6K1575</b>									
<b>Blank (B6K1575-BLK1)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
<b>Blank (B6K1575-BLK2)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
<b>Blank (B6K1575-BLK3)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
<b>LCS (B6K1575-BS1)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	101	1 mg/L	100		101	96-108			
<b>LCS (B6K1575-BS2)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Conductivity (EC)	1400	2 µS/cm	1410		99	95-104			
<b>LCS (B6K1575-BS3)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	101	1 mg/L	100		101	96-108			
<b>LCS (B6K1575-BS4)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Conductivity (EC)	1420	2 µS/cm	1410		101	95-104			
<b>LCS (B6K1575-BS5)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	96-108			
<b>LCS (B6K1575-BS6)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
Conductivity (EC)	1430	2 µS/cm	1410		101	95-104			
<b>Reference (B6K1575-SRM1)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
pH	6.91	0.01 pH units	7.00		99	98-102			
<b>Reference (B6K1575-SRM2)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
pH	6.92	0.01 pH units	7.00		99	98-102			
<b>Reference (B6K1575-SRM3)</b>				Prepared: 2016-11-24, Analyzed: 2016-11-24					
pH	6.92	0.01 pH units	7.00		99	98-102			



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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B6K1586</b>									
<b>Blank (B6K1586-BLK1)</b>			Prepared: 2016-11-24, Analyzed: 2016-11-24						
Chromium, Hexavalent	< 0.001	0.001 mg/L							
<b>LCS (B6K1586-BS1)</b>			Prepared: 2016-11-24, Analyzed: 2016-11-24						
Chromium, Hexavalent	0.099	0.001 mg/L	0.100		99	90-111			
<b>General Parameters, Batch B6K1625</b>									
<b>Blank (B6K1625-BLK1)</b>			Prepared: 2016-11-24, Analyzed: 2016-11-24						
Solids, Total Suspended	< 1	2 mg/L							
<b>LCS (B6K1625-BS1)</b>			Prepared: 2016-11-24, Analyzed: 2016-11-24						
Solids, Total Suspended	50	2 mg/L	50.0		99	85-110			
<b>General Parameters, Batch B6K1658</b>									
<b>Blank (B6K1658-BLK1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Turbidity	< 0.10	0.10 NTU							
<b>Blank (B6K1658-BLK2)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B6K1658-BS1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Turbidity	39.6	0.10 NTU	40.0		99	90-110			
<b>LCS (B6K1658-BS2)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Turbidity	39.4	0.10 NTU	40.0		98	90-110			
<b>General Parameters, Batch B6K1705</b>									
<b>Blank (B6K1705-BLK1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Colour, True	< 5	5 CU							
<b>Blank (B6K1705-BLK2)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Colour, True	< 5	5 CU							
<b>LCS (B6K1705-BS1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Colour, True	10	5 CU	10.0		105	85-115			
<b>LCS (B6K1705-BS2)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Colour, True	11	5 CU	10.0		108	85-115			
<b>General Parameters, Batch B6K1718</b>									
<b>Blank (B6K1718-BLK1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Solids, Total Dissolved	< 10	10 mg/L							
<b>LCS (B6K1718-BS1)</b>			Prepared: 2016-11-25, Analyzed: 2016-11-25						
Solids, Total Dissolved	243	10 mg/L	240		101	80-120			
<b>Glycols, Batch B6K1864</b>									
<b>Blank (B6K1864-BLK1)</b>			Prepared: 2016-11-30, Analyzed: 2016-11-30						
Propylene glycol	< 5	5 mg/L							
Ethylene glycol	< 5	5 mg/L							
Diethylene glycol	< 5	5 mg/L							



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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Glycols, Batch B6K1864, Continued</b>									
<b>Blank (B6K1864-BLK1), Continued</b>					Prepared: 2016-11-30, Analyzed: 2016-11-30				
Triethylene glycol	< 5	5 mg/L							
Surrogate: Tetramethylene Glycol	104	mg/L	95.6		109	66-125			
<b>LCS (B6K1864-BS1)</b>					Prepared: 2016-11-30, Analyzed: 2016-11-30				
Propylene glycol	52	5 mg/L	50.0		104	71-114			
Ethylene glycol	55	5 mg/L	49.9		110	82-124			
Diethylene glycol	56	5 mg/L	50.0		113	80-116			
Triethylene glycol	58	5 mg/L	49.8		117	73-120			
Surrogate: Tetramethylene Glycol	107	mg/L	95.6		112	66-125			
<b>LCS Dup (B6K1864-BSD1)</b>					Prepared: 2016-11-30, Analyzed: 2016-11-30				
Propylene glycol	52	5 mg/L	50.0		103	71-114	< 1	20	
Ethylene glycol	55	5 mg/L	49.9		110	82-124	< 1	20	
Diethylene glycol	56	5 mg/L	50.0		113	80-116	< 1	20	
Triethylene glycol	52	5 mg/L	49.8		104	73-120	12	20	
Surrogate: Tetramethylene Glycol	106	mg/L	95.6		110	66-125			
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K1783</b>									
<b>Blank (B6K1783-BLK1)</b>					Prepared: 2016-11-28, Analyzed: 2016-11-29				
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	< 0.05	0.05 µg/L							
Surrogate: Acridine-d9	2.19	µg/L	4.44		49	60-130			S02
Surrogate: Naphthalene-d8	3.70	µg/L	4.44		83	60-130			
Surrogate: Perylene-d12	4.81	µg/L	4.44		108	60-130			
<b>LCS (B6K1783-BS1)</b>					Prepared: 2016-11-28, Analyzed: 2016-11-29				
Acenaphthene	4.18	0.05 µg/L	4.44		94	70-130			
Acenaphthylene	4.05	0.20 µg/L	4.44		91	70-130			
Acridine	4.13	0.10 µg/L	4.44		93	60-130			
Anthracene	4.85	0.01 µg/L	4.44		109	70-130			
Benz (a) anthracene	4.77	0.01 µg/L	4.44		107	70-130			
Benzo (a) pyrene	5.09	0.01 µg/L	4.44		114	70-130			
Benzo (b) fluoranthene	4.59	0.05 µg/L	4.44		103	70-130			
Benzo (g,h,i) perylene	5.26	0.05 µg/L	4.44		118	70-130			
Benzo (k) fluoranthene	4.51	0.05 µg/L	4.44		102	70-130			
Chrysene	4.76	0.05 µg/L	4.44		107	70-130			
Dibenz (a,h) anthracene	5.01	0.05 µg/L	4.44		113	70-130			
Fluoranthene	5.25	0.03 µg/L	4.44		118	70-130			
Fluorene	4.16	0.05 µg/L	4.44		94	70-130			

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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 B6K1783, Continued**

**LCS (B6K1783-BS1), Continued**

Prepared: 2016-11-28, Analyzed: 2016-11-29

Indeno (1,2,3-cd) pyrene	5.16	0.05 µg/L	4.44		116	70-130			
Naphthalene	4.25	0.20 µg/L	4.44		96	70-130			
Phenanthrene	4.64	0.10 µg/L	4.44		104	70-130			
Pyrene	5.27	0.02 µg/L	4.44		119	70-130			
Quinoline	4.76	0.05 µg/L	4.44		107	70-130			
Surrogate: Acridine-d9	2.70	µg/L	4.44		61	60-130			
Surrogate: Naphthalene-d8	3.91	µg/L	4.44		88	60-130			
Surrogate: Perylene-d12	4.90	µg/L	4.44		110	60-130			

**LCS Dup (B6K1783-BSD1)**

Prepared: 2016-11-28, Analyzed: 2016-11-29

Acenaphthene	4.33	0.05 µg/L	4.44		97	70-130	4	20	
Acenaphthylene	4.29	0.20 µg/L	4.44		97	70-130	6	20	
Acridine	4.27	0.10 µg/L	4.44		96	60-130	3	20	
Anthracene	4.94	0.01 µg/L	4.44		111	70-130	2	20	
Benz (a) anthracene	4.46	0.01 µg/L	4.44		100	70-130	7	20	
Benzo (a) pyrene	4.95	0.01 µg/L	4.44		111	70-130	3	20	
Benzo (b) fluoranthene	4.43	0.05 µg/L	4.44		100	70-130	4	20	
Benzo (g,h,i) perylene	5.16	0.05 µg/L	4.44		116	70-130	2	20	
Benzo (k) fluoranthene	3.98	0.05 µg/L	4.44		89	70-130	13	20	
Chrysene	4.46	0.05 µg/L	4.44		100	70-130	6	20	
Dibenz (a,h) anthracene	4.90	0.05 µg/L	4.44		110	70-130	2	20	
Fluoranthene	5.17	0.03 µg/L	4.44		116	70-130	1	20	
Fluorene	4.24	0.05 µg/L	4.44		95	70-130	2	20	
Indeno (1,2,3-cd) pyrene	4.77	0.05 µg/L	4.44		107	70-130	8	20	
Naphthalene	4.50	0.20 µg/L	4.44		101	70-130	6	20	
Phenanthrene	4.65	0.10 µg/L	4.44		105	70-130	< 1	20	
Pyrene	5.28	0.02 µg/L	4.44		119	70-130	< 1	20	
Quinoline	4.22	0.05 µg/L	4.44		95	70-130	12	20	
Surrogate: Acridine-d9	2.68	µg/L	4.44		60	60-130			
Surrogate: Naphthalene-d8	4.12	µg/L	4.44		93	60-130			
Surrogate: Perylene-d12	4.74	µg/L	4.44		107	60-130			

**Total Metals, Batch B6K1647**

**Blank (B6K1647-BLK1)**

Prepared: 2016-11-25, Analyzed: 2016-11-25

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							

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Total Metals, Batch B6K1647, Continued**

**Blank (B6K1647-BLK1), Continued**

Prepared: 2016-11-25, Analyzed: 2016-11-25

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							

**Reference (B6K1647-SRM1)**

Prepared: 2016-11-25, Analyzed: 2016-11-25

Aluminum, total	0.284	0.005 mg/L	0.303		94	81-129			
Antimony, total	0.0547	0.0001 mg/L	0.0511		107	88-114			
Arsenic, total	0.116	0.0005 mg/L	0.118		98	88-114			
Barium, total	0.793	0.005 mg/L	0.823		96	72-104			
Beryllium, total	0.0483	0.0001 mg/L	0.0496		97	76-131			
Boron, total	3.65	0.004 mg/L	3.45		106	75-121			
Cadmium, total	0.0480	0.00001 mg/L	0.0495		97	89-111			
Calcium, total	11.9	0.2 mg/L	11.6		103	86-121			
Chromium, total	0.253	0.0005 mg/L	0.250		101	89-114			
Cobalt, total	0.0395	0.00005 mg/L	0.0377		105	91-113			
Copper, total	0.525	0.0002 mg/L	0.486		108	91-115			
Iron, total	0.52	0.01 mg/L	0.488		107	77-124			
Lead, total	0.211	0.0001 mg/L	0.204		103	92-113			
Lithium, total	0.413	0.0001 mg/L	0.403		103	85-115			
Magnesium, total	3.95	0.01 mg/L	3.79		104	78-120			
Manganese, total	0.106	0.0002 mg/L	0.109		98	90-114			
Molybdenum, total	0.205	0.0001 mg/L	0.198		104	90-111			
Nickel, total	0.253	0.0002 mg/L	0.249		102	90-111			
Phosphorus, total	0.21	0.02 mg/L	0.227		91	85-115			
Potassium, total	7.43	0.02 mg/L	7.21		103	84-113			
Selenium, total	0.131	0.0005 mg/L	0.121		108	85-115			
Sodium, total	7.74	0.02 mg/L	7.54		103	82-123			
Strontium, total	0.370	0.001 mg/L	0.375		99	88-112			
Thallium, total	0.0856	0.00002 mg/L	0.0805		106	91-114			
Uranium, total	0.0303	0.00002 mg/L	0.0306		99	85-120			
Vanadium, total	0.385	0.001 mg/L	0.386		100	86-111			
Zinc, total	2.49	0.004 mg/L	2.49		100	85-111			

**Total Metals, Batch B6K1786**

**Blank (B6K1786-BLK1)**

Prepared: 2016-11-28, Analyzed: 2016-11-29

Mercury, total	< 0.00002	0.00002 mg/L							
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**Reference (B6K1786-SRM1)**

Prepared: 2016-11-28, Analyzed: 2016-11-29

Mercury, total	0.00419	0.00002 mg/L	0.00489		86	50-150			
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**Volatile Organic Compounds (VOC), Batch B6K1753**

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Volatile Organic Compounds (VOC), Batch B6K1753, Continued</b>									
<b>Blank (B6K1753-BLK1)</b>					Prepared: 2016-11-28, Analyzed: 2016-11-28				
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	25.7	µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	27.3	µg/L	25.0		109	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	26.4	µg/L	25.0		106	70-130			
<b>LCS (B6K1753-BS1)</b>					Prepared: 2016-11-28, Analyzed: 2016-11-28				
Benzene	21.5	0.5 µg/L	20.0		108	70-130			
Bromodichloromethane	23.1	1.0 µg/L	20.0		116	70-130			
Bromoform	24.8	1.0 µg/L	20.0		124	70-130			
Bromomethane	22.9	2.0 µg/L	20.0		114	70-130			
Carbon tetrachloride	23.0	1.0 µg/L	20.0		115	70-130			
Chlorobenzene	23.7	1.0 µg/L	20.0		118	70-130			
Chloroethane	16.0	2.0 µg/L	20.0		80	70-130			
Chloroform	23.4	1.0 µg/L	20.0		117	70-130			
Chloromethane	16.1	2.0 µg/L	20.0		80	70-130			
Dibromochloromethane	22.4	1.0 µg/L	20.0		112	70-130			
1,2-Dibromoethane	21.8	0.3 µg/L	20.0		109	70-130			
Dibromomethane	21.7	1.0 µg/L	20.0		108	70-130			
1,2-Dichlorobenzene	24.3	0.5 µg/L	20.0		121	70-130			
1,3-Dichlorobenzene	23.8	1.0 µg/L	20.0		119	70-130			

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Volatile Organic Compounds (VOC), Batch B6K1753, Continued</b>									
<b>LCS (B6K1753-BS1), Continued</b>					Prepared: 2016-11-28, Analyzed: 2016-11-28				
1,4-Dichlorobenzene	24.8	1.0 µg/L	20.0		124	70-130			
1,1-Dichloroethane	22.5	1.0 µg/L	20.0		112	70-130			
1,2-Dichloroethane	23.6	1.0 µg/L	20.0		118	70-130			
1,1-Dichloroethene	20.0	1.0 µg/L	20.0		100	70-130			
cis-1,2-Dichloroethene	20.0	1.0 µg/L	20.0		100	70-130			
trans-1,2-Dichloroethene	18.8	1.0 µg/L	20.0		94	70-130			
1,2-Dichloropropane	21.8	1.0 µg/L	20.0		109	70-130			
cis-1,3-Dichloropropene	21.8	1.0 µg/L	20.0		109	70-130			
trans-1,3-Dichloropropene	22.4	1.0 µg/L	20.0		112	70-130			
Ethylbenzene	23.1	1.0 µg/L	20.0		116	70-130			
Methyl tert-butyl ether	20.1	1.0 µg/L	20.0		100	70-130			
Methylene chloride	20.0	3.0 µg/L	20.0		100	70-130			
Styrene	23.9	1.0 µg/L	20.0		120	70-130			
1,1,1,2-Tetrachloroethane	22.4	1.0 µg/L	20.0		112	70-130			
1,1,2,2-Tetrachloroethane	24.2	1.0 µg/L	20.0		121	70-130			
Tetrachloroethene	21.9	1.0 µg/L	20.0		110	70-130			
Toluene	22.4	1.0 µg/L	20.0		112	70-130			
1,1,1-Trichloroethane	23.3	1.0 µg/L	20.0		117	70-130			
1,1,2-Trichloroethane	23.6	1.0 µg/L	20.0		118	70-130			
Trichloroethene	22.6	1.0 µg/L	20.0		113	70-130			
Trichlorofluoromethane	23.3	1.0 µg/L	20.0		116	70-130			
Vinyl chloride	17.0	2.0 µg/L	20.0		85	70-130			
Xylenes (total)	72.4	2.0 µg/L	60.0		121	70-130			
Surrogate: Toluene-d8	27.8	µg/L	25.0		111	70-130			
Surrogate: 4-Bromofluorobenzene	28.4	µg/L	25.0		114	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	31.2	µg/L	25.0		125	70-130			

**QC Qualifiers:**

S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

		6111669-01	6111669-02
		Water	Water
		2016-11-22	2016-11-22
		1	2
Anions	Chloride (mg/L)	80.8	83.7
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	0.252	0.568
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	79.3	126
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	49	90
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	49	90
	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)	553	709
	pH (pH units)	7.66	7.62
	Solids, Total Dissolved (mg/L)	320	436
	Solids, Total Suspended (mg/L)	35	6
	Turbidity (NTU)	61.5	9.15
Calculated Parameters	Chromium, Trivalent (mg/L)	0.007	< 0.001
	Hardness, Total (as CaCO3) (mg/L)	166	252
Dissolved Metals	Aluminum, dissolved (mg/L)	< 0.005	< 0.005
	Antimony, dissolved (mg/L)	0.0003	0.0003
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.010	0.019
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.025	0.031
	Cadmium, dissolved (mg/L)	< 0.00001	< 0.00001
	Calcium, dissolved (mg/L)	49.6	78.5
	Chromium, dissolved (mg/L)	0.0009	0.0009
	Cobalt, dissolved (mg/L)	0.00006	0.00007
	Copper, dissolved (mg/L)	0.0008	0.0013
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0002	0.0002
	Magnesium, dissolved (mg/L)	10.3	13.7
	Manganese, dissolved (mg/L)	0.0121	0.0025
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0008	0.0015
	Nickel, dissolved (mg/L)	0.0004	0.0008
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	1.68	1.91
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	2.5	4.6
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

		6111669-01	6111669-02
		Water	Water
		2016-11-22	2016-11-22
		1	2
Dissolved Metals	Sodium, dissolved (mg/L)	39.6	38.4
	Strontium, dissolved (mg/L)	0.187	0.277
	Sulfur, dissolved (mg/L)	27	41
	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)	0.00045	0.00103
	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)	3.20
Antimony, total (mg/L)		0.0004	0.0004
Arsenic, total (mg/L)		0.0008	< 0.0005
Barium, total (mg/L)		0.031	0.023
Beryllium, total (mg/L)		< 0.0001	< 0.0001
Bismuth, total (mg/L)		< 0.0001	< 0.0001
Boron, total (mg/L)		0.031	0.036
Cadmium, total (mg/L)		0.00002	< 0.00001
Calcium, total (mg/L)		56.0	89.3
Chromium, total (mg/L)		0.0066	0.0014
Cobalt, total (mg/L)		0.00157	0.00064
Copper, total (mg/L)		0.0069	0.0023
Iron, total (mg/L)		3.23	0.41
Lead, total (mg/L)		0.0016	0.0003
Lithium, total (mg/L)		0.0019	0.0004
Magnesium, total (mg/L)		12.0	14.5
Manganese, total (mg/L)		0.0656	0.0543
Mercury, total (mg/L)		< 0.00002	< 0.00002
Molybdenum, total (mg/L)		0.0009	0.0017
Nickel, total (mg/L)		0.0048	0.0014
Phosphorus, total (mg/L)		0.08	< 0.02
Potassium, total (mg/L)		2.13	1.99
Selenium, total (mg/L)		< 0.0005	< 0.0005
Silicon, total (mg/L)		10.2	5.6
Silver, total (mg/L)		< 0.00005	< 0.00005
Sodium, total (mg/L)		42.8	40.9
Strontium, total (mg/L)		0.205	0.295
Sulfur, total (mg/L)		28	43
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)		0.172	0.020

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

**WORK ORDER REPORTED** 6111669  
2016-11-30

		6111669-01	6111669-02
		Water	Water
		2016-11-22	2016-11-22
		1	2
Total Metals	Uranium, total (mg/L)	0.00058	0.00120
	Vanadium, total (mg/L)	0.009	0.002
	Zinc, total (mg/L)	0.006	< 0.004
	Zirconium, total (mg/L)	0.0018	< 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 (%)	88	80
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 (%)	106	108
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	< 0.05	< 0.05
	Acenaphthylene (ug/L)	< 0.20	< 0.20
	Acridine (ug/L)	< 0.10	< 0.10
	Anthracene (ug/L)	< 0.01	< 0.01
	Benz (a) anthracene (ug/L)	< 0.01	< 0.01
	Benzo (a) pyrene (ug/L)	< 0.01	< 0.01
	Benzo (b) fluoranthene (ug/L)	< 0.05	< 0.05
	Benzo (g,h,i) perylene (ug/L)	< 0.05	< 0.05
	Benzo (k) fluoranthene (ug/L)	< 0.05	< 0.05
	Chrysene (ug/L)	< 0.05	< 0.05
	Dibenz (a,h) anthracene (ug/L)	< 0.05	< 0.05
	Fluoranthene (ug/L)	< 0.03	< 0.03
	Fluorene (ug/L)	< 0.05	< 0.05
	Indeno (1,2,3-cd) pyrene (ug/L)	< 0.05	< 0.05
	Naphthalene (ug/L)	< 0.20	< 0.20
	Phenanthrene (ug/L)	< 0.10	< 0.10
	Pyrene (ug/L)	< 0.02	< 0.02
	Quinoline (ug/L)	< 0.05	< 0.05
	Sur: Acridine-d9 (%)	60	52
	Sur: Naphthalene-d8 (%)	93	96
Sur: Perylene-d12 (%)	90	103	
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



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

**WORK ORDER REPORTED** 6111669  
2016-11-30

		6111669-01	6111669-02
		Water	Water
		2016-11-22	2016-11-22
		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 (%)	103	106
	Sur: 4-Bromofluorobenzene (%)	111	112
	Sur: 1,4-Dichlorobenzene-d4 (%)	107	107

<p><b>Client Information</b></p> <p>Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726</p>	<p><b>Project Information</b></p> <p>SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5</p>	<p><b>Laboratory Information</b></p> <p>CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599</p>	<p><b>COC Information</b></p> <p>Number: 20161123-B Shipped via: ACE</p>
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#1	<p>1 (Template: 01) 11/22/2016 14:00 Grab / Water</p>	<p style="text-align: center;"><b>Analyses</b></p> <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 &amp; Low (RMD) TAT: 5 Mercury, total CVAFS Reg &amp; Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5     Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5</p>	<p style="text-align: center;"><b>Containers</b></p> <p>C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) C09_125 mL Plastic (CN/Cr6) (1)</p>
#2	<p>2 (Template: 01) 11/22/2016 14:15 Grab / Water</p>	<p style="text-align: center;"><b>Analyses</b></p> <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 &amp; Low (RMD) TAT: 5 Mercury, total CVAFS Reg &amp; Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5     Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5</p>	<p style="text-align: center;"><b>Containers</b></p> <p>C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) C09_125 mL Plastic (CN/Cr6) (1)</p>

Relinquished by	Date/Time	Accepted by	Date/Time

<b>Client Information</b> Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726	<b>Project Information</b> SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5	<b>Laboratory Information</b> CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	<b>COC Information</b> Number: 20161123-B Shipped via: ACE
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<b>#1</b>	1 (Template: 01) 11/22/2016 14:00 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) C09_125 mL Plastic (CN/Cr6) (1)
<b>#2</b>	2 (Template: 01) 11/22/2016 14:15 Grab / Water	<p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) C09_125 mL Plastic (CN/Cr6) (1)



Time	Accepted by	Date/Time
	H. Air TC	11/23
	6.9°C	14:00