

**REPORTED TO** Allterra Construction  
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**WORK ORDER** 6111860

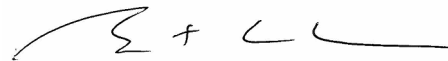
**PO NUMBER** P15-06 SIRM  
**PROJECT** SIRM 460 Stebbings  
**PROJECT INFO**

**RECEIVED / TEMP** 2016-11-25 12:00 / 11°C  
**REPORTED** 2016-12-02  
**COC NUMBER** 20161124

**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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**PROJECT** SIRM 460 Stebbings

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|  |            |
|--|------------|
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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 |
|---------|-------------------------------|-------------|--------------|-------|----------|----------|-------|
|---------|-------------------------------|-------------|--------------|-------|----------|----------|-------|

**Sample ID: 1-Weir (6111860-01) [Water] Sampled: 2016-11-24 08:00**

**Anions**

|                |         |         |       |      |     |            |  |
|----------------|---------|---------|-------|------|-----|------------|--|
| Chloride       | 36.7    | ± 1.7   | 0.10  | mg/L | N/A | 2016-11-26 |  |
| Fluoride       | < 0.10  |         | 0.10  | mg/L | N/A | 2016-11-26 |  |
| Nitrate (as N) | 0.321   | ± 0.040 | 0.010 | mg/L | N/A | 2016-11-26 |  |
| Nitrite (as N) | < 0.010 |         | 0.010 | mg/L | N/A | 2016-11-26 |  |
| Sulfate        | 63.2    | ± 7.5   | 1.0   | mg/L | N/A | 2016-11-26 |  |

**General Parameters**

|  |         |        |       |          |     |            |     |
|--|---------|--------|-------|----------|-----|------------|-----|
| Alkalinity, Total (as CaCO3)           | 49      | ± 3    | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Phenolphthalein (as CaCO3) | < 1     |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Bicarbonate (as CaCO3)     | 49      | ± 3    | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Carbonate (as CaCO3)       | < 1     |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Hydroxide (as CaCO3)       | < 1     |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Chromium, Hexavalent                   | < 0.001 |        | 0.001 | mg/L     | N/A | 2016-11-29 |     |
| Colour, True                           | < 5     |        | 5     | CU       | N/A | 2016-11-27 |     |
| Conductivity (EC)                      | 384     | ± 6    | 2     | µS/cm    | N/A | 2016-11-27 |     |
| pH                                     | 7.72    | ± 0.02 | 0.01  | pH units | N/A | 2016-11-27 | HT2 |
| Solids, Total Dissolved                | 231     | ± 22   | 10    | mg/L     | N/A | 2016-11-30 |     |
| Solids, Total Suspended                | 21      | ± 2    | 2     | mg/L     | N/A | 2016-11-28 |     |
| Turbidity                              | 48.5    | ± 2.2  | 0.10  | NTU      | N/A | 2016-11-25 |     |

**Calculated Parameters**

|                            |        |  |        |      |     |     |  |
|----------------------------|--------|--|--------|------|-----|-----|--|
| Chromium, Trivalent        | 0.0053 |  | 0.0010 | mg/L | N/A | N/A |  |
| Hardness, Total (as CaCO3) | 126    |  | 0.50   | mg/L | N/A | N/A |  |

**Dissolved Metals**

|                       |           |          |         |      |            |            |  |
|-----------------------|-----------|----------|---------|------|------------|------------|--|
| Aluminum, dissolved   | 0.009     | ± 0.002  | 0.005   | mg/L | N/A        | 2016-11-30 |  |
| Antimony, dissolved   | 0.0002    | ± 0.0001 | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Arsenic, dissolved    | < 0.0005  |          | 0.0005  | mg/L | N/A        | 2016-11-30 |  |
| Barium, dissolved     | 0.007     | ± 0.001  | 0.005   | mg/L | N/A        | 2016-11-30 |  |
| Beryllium, dissolved  | < 0.0001  |          | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Bismuth, dissolved    | < 0.0001  |          | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Boron, dissolved      | 0.024     | ± 0.004  | 0.004   | mg/L | N/A        | 2016-11-30 |  |
| Cadmium, dissolved    | < 0.00001 |          | 0.00001 | mg/L | N/A        | 2016-11-30 |  |
| Calcium, dissolved    | 39.0      | ± 6.3    | 0.2     | mg/L | N/A        | 2016-11-30 |  |
| Chromium, dissolved   | 0.0007    | ± 0.0002 | 0.0005  | mg/L | N/A        | 2016-11-30 |  |
| Cobalt, dissolved     | < 0.00005 |          | 0.00005 | mg/L | N/A        | 2016-11-30 |  |
| Copper, dissolved     | 0.0006    | ± 0.0003 | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Iron, dissolved       | < 0.010   |          | 0.010   | mg/L | N/A        | 2016-11-30 |  |
| Lead, dissolved       | < 0.0001  |          | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Lithium, dissolved    | 0.0001    |          | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Magnesium, dissolved  | 6.89      | ± 1.11   | 0.01    | mg/L | N/A        | 2016-11-30 |  |
| Manganese, dissolved  | 0.0016    | ± 0.0003 | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Mercury, dissolved    | < 0.00002 |          | 0.00002 | mg/L | 2016-11-29 | 2016-11-29 |  |
| Molybdenum, dissolved | 0.0006    | ± 0.0001 | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Nickel, dissolved     | 0.0006    | ± 0.0002 | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Phosphorus, dissolved | < 0.02    |          | 0.02    | mg/L | N/A        | 2016-11-30 |  |

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| Analyte | Result /<br>Recovery | Estimate of<br>Uncertainty | MRL /<br>Limits | Units | Prepared | Analyzed | Notes |
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 1-Weir (6111860-01) [Water] Sampled: 2016-11-24 08:00, Continued**

***Dissolved Metals, Continued***

|                      |           |           |         |      |     |            |  |
|----------------------|-----------|-----------|---------|------|-----|------------|--|
| Potassium, dissolved | 1.15      | ± 0.16    | 0.02    | mg/L | N/A | 2016-11-30 |  |
| Selenium, dissolved  | < 0.0005  |           | 0.0005  | mg/L | N/A | 2016-11-30 |  |
| Silicon, dissolved   | 2.8       | ± 1.3     | 0.5     | mg/L | N/A | 2016-11-30 |  |
| Silver, dissolved    | < 0.00005 |           | 0.00005 | mg/L | N/A | 2016-11-30 |  |
| Sodium, dissolved    | 22.8      | ± 3.5     | 0.02    | mg/L | N/A | 2016-11-30 |  |
| Strontium, dissolved | 0.143     | ± 0.015   | 0.001   | mg/L | N/A | 2016-11-30 |  |
| Sulfur, dissolved    | 23        | ± 23      | 1       | mg/L | N/A | 2016-11-30 |  |
| Tellurium, dissolved | < 0.0002  |           | 0.0002  | mg/L | N/A | 2016-11-30 |  |
| Thallium, dissolved  | < 0.00002 |           | 0.00002 | mg/L | N/A | 2016-11-30 |  |
| Thorium, dissolved   | < 0.0001  |           | 0.0001  | mg/L | N/A | 2016-11-30 |  |
| Tin, dissolved       | < 0.0002  |           | 0.0002  | mg/L | N/A | 2016-11-30 |  |
| Titanium, dissolved  | < 0.005   |           | 0.005   | mg/L | N/A | 2016-11-30 |  |
| Uranium, dissolved   | 0.00041   | ± 0.00005 | 0.00002 | mg/L | N/A | 2016-11-30 |  |
| Vanadium, dissolved  | < 0.001   |           | 0.001   | mg/L | N/A | 2016-11-30 |  |
| Zinc, dissolved      | < 0.004   |           | 0.004   | mg/L | N/A | 2016-11-30 |  |
| Zirconium, dissolved | < 0.0001  |           | 0.0001  | mg/L | N/A | 2016-11-30 |  |

***Total Metals***

|                   |           |           |         |      |            |            |  |
|-------------------|-----------|-----------|---------|------|------------|------------|--|
| Aluminum, total   | 2.42      | ± 0.44    | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Antimony, total   | 0.0003    | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Arsenic, total    | 0.0006    | ± 0.0001  | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Barium, total     | 0.021     | ± 0.003   | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Beryllium, total  | < 0.0001  |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Bismuth, total    | < 0.0001  |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Boron, total      | 0.030     | ± 0.006   | 0.004   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Cadmium, total    | 0.00001   | ± 0.00002 | 0.00001 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Calcium, total    | 41.5      | ± 4.8     | 0.2     | mg/L | 2016-11-29 | 2016-11-30 |  |
| Chromium, total   | 0.0053    | ± 0.0007  | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Cobalt, total     | 0.00120   | ± 0.00011 | 0.00005 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Copper, total     | 0.0057    | ± 0.0007  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Iron, total       | 2.57      | ± 0.51    | 0.01    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Lead, total       | 0.0014    | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Lithium, total    | 0.0015    | ± 0.0002  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Magnesium, total  | 7.53      | ± 1.15    | 0.01    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Manganese, total  | 0.0407    | ± 0.0037  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Mercury, total    | < 0.00002 |           | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Molybdenum, total | 0.0007    | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Nickel, total     | 0.0042    | ± 0.0004  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Phosphorus, total | 0.06      | ± 0.14    | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Potassium, total  | 1.41      | ± 0.16    | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Selenium, total   | < 0.0005  |           | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Silicon, total    | 7.3       | ± 2.7     | 0.5     | mg/L | 2016-11-29 | 2016-11-30 |  |
| Silver, total     | < 0.00005 |           | 0.00005 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Sodium, total     | 22.9      | ± 3.3     | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Strontium, total  | 0.148     | ± 0.013   | 0.001   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Sulfur, total     | 23        | ± 80      | 1       | mg/L | 2016-11-29 | 2016-11-30 |  |

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|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 1-Weir (6111860-01) [Water] Sampled: 2016-11-24 08:00, Continued**

**Total Metals, Continued**

|                  |                |           |         |      |            |            |  |
|------------------|----------------|-----------|---------|------|------------|------------|--|
| Tellurium, total | < 0.0002       |           | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Thallium, total  | < 0.00002      |           | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Thorium, total   | <b>0.0001</b>  |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Tin, total       | < 0.0002       |           | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Titanium, total  | <b>0.138</b>   | ± 0.018   | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Uranium, total   | <b>0.00046</b> | ± 0.00003 | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Vanadium, total  | <b>0.007</b>   | ± 0.001   | 0.001   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Zinc, total      | <b>0.009</b>   | ± 0.003   | 0.004   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Zirconium, total | <b>0.0007</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |

**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        |  |
| <i>Surrogate: 2-Methylnonane</i> | 89    |  | 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 |  |
| <i>Surrogate: Tetramethylene Glycol</i> | 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 |     |
| <i>Surrogate: Acridine-d9</i>    | 51     |  | 60-130 | %    | 2016-11-28 | 2016-11-29 | S02 |
| <i>Surrogate: Naphthalene-d8</i> | 87     |  | 60-130 | %    | 2016-11-28 | 2016-11-29 |     |
| <i>Surrogate: Perylene-d12</i>   | 97     |  | 60-130 | %    | 2016-11-28 | 2016-11-29 |     |

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|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 1-Weir (6111860-01) [Water] Sampled: 2016-11-24 08:00, Continued**

**Volatile Organic Compounds (VOC)**

|                                   |       |  |        |      |     |            |  |
|-----------------------------------|-------|--|--------|------|-----|------------|--|
| Benzene                           | < 0.5 |  | 0.5    | µg/L | N/A | 2016-11-30 |  |
| Bromodichloromethane              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Bromoform                         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Bromomethane                      | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Carbon tetrachloride              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chlorobenzene                     | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chloroethane                      | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Chloroform                        | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chloromethane                     | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Dibromochloromethane              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dibromoethane                 | < 0.3 |  | 0.3    | µg/L | N/A | 2016-11-30 |  |
| Dibromomethane                    | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichlorobenzene               | < 0.5 |  | 0.5    | µg/L | N/A | 2016-11-30 |  |
| 1,3-Dichlorobenzene               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,4-Dichlorobenzene               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1-Dichloroethane                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichloroethane                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1-Dichloroethene                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| cis-1,2-Dichloroethene            | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| trans-1,2-Dichloroethene          | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichloropropane               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| cis-1,3-Dichloropropene           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| trans-1,3-Dichloropropene         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Ethylbenzene                      | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Methyl tert-butyl ether           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Methylene chloride                | < 3.0 |  | 3.0    | µg/L | N/A | 2016-11-30 |  |
| Styrene                           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,1,2-Tetrachloroethane         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,2,2-Tetrachloroethane         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Tetrachloroethene                 | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Toluene                           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,1-Trichloroethane             | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,2-Trichloroethane             | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Trichloroethene                   | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Trichlorofluoromethane            | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Vinyl chloride                    | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Xylenes (total)                   | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Surrogate: Toluene-d8             | 102   |  | 70-130 | %    | N/A | 2016-11-30 |  |
| Surrogate: 4-Bromofluorobenzene   | 111   |  | 70-130 | %    | N/A | 2016-11-30 |  |
| Surrogate: 1,4-Dichlorobenzene-d4 | 116   |  | 70-130 | %    | N/A | 2016-11-30 |  |

**Sample ID: 2-SW1 (6111860-02) [Water] Sampled: 2016-11-24 08:15**

**Anions**

|          |            |  |      |      |     |            |  |
|----------|------------|--|------|------|-----|------------|--|
| Chloride | 57.4 ± 2.6 |  | 0.10 | mg/L | N/A | 2016-11-26 |  |
|----------|------------|--|------|------|-----|------------|--|

**REPORTED TO PROJECT** Allterra Construction  
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| Analyte | Result /<br>Recovery | Estimate of<br>Uncertainty | MRL /<br>Limits | Units | Prepared | Analyzed | Notes |
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 2-SW1 (6111860-02) [Water] Sampled: 2016-11-24 08:15, Continued**

**Anions, Continued**

|                |              |         |       |      |     |            |  |
|----------------|--------------|---------|-------|------|-----|------------|--|
| Fluoride       | < 0.10       |         | 0.10  | mg/L | N/A | 2016-11-26 |  |
| Nitrate (as N) | <b>0.579</b> | ± 0.072 | 0.010 | mg/L | N/A | 2016-11-26 |  |
| Nitrite (as N) | < 0.010      |         | 0.010 | mg/L | N/A | 2016-11-26 |  |
| Sulfate        | <b>87.8</b>  | ± 10.4  | 1.0   | mg/L | N/A | 2016-11-26 |  |

**General Parameters**

|   |             |        |       |          |     |            |     |
|---|-------------|--------|-------|----------|-----|------------|-----|
| Alkalinity, Total (as CaCO <sub>3</sub> )           | <b>71</b>   | ± 4    | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> ) | < 1         |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | <b>71</b>   | ± 4    | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | < 1         |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Alkalinity, Hydroxide (as CaCO <sub>3</sub> )       | < 1         |        | 1     | mg/L     | N/A | 2016-11-27 |     |
| Chromium, Hexavalent                                | < 0.001     |        | 0.001 | mg/L     | N/A | 2016-11-29 |     |
| Colour, True  | < 5         |        | 5     | CU       | N/A | 2016-11-27 |     |
| Conductivity (EC)                                   | <b>503</b>  | ± 8    | 2     | µS/cm    | N/A | 2016-11-27 |     |
| pH  | <b>7.60</b> | ± 0.02 | 0.01  | pH units | N/A | 2016-11-27 | HT2 |
| Solids, Total Dissolved                             | <b>292</b>  | ± 27   | 10    | mg/L     | N/A | 2016-11-30 |     |
| Solids, Total Suspended                             | <b>6</b>    | ± 1    | 2     | mg/L     | N/A | 2016-11-28 |     |
| Turbidity   | <b>12.2</b> | ± 0.6  | 0.10  | NTU      | N/A | 2016-11-25 |     |

**Calculated Parameters**

|   |               |  |        |      |     |     |  |
|---|---------------|--|--------|------|-----|-----|--|
| Chromium, Trivalent                     | <b>0.0012</b> |  | 0.0010 | mg/L | N/A | N/A |  |
| Hardness, Total (as CaCO <sub>3</sub> ) | <b>172</b>    |  | 0.50   | mg/L | N/A | N/A |  |

**Dissolved Metals**

|                       |                |           |         |      |            |            |  |
|-----------------------|----------------|-----------|---------|------|------------|------------|--|
| Aluminum, dissolved   | < 0.005        |           | 0.005   | mg/L | N/A        | 2016-11-30 |  |
| Antimony, dissolved   | <b>0.0003</b>  | ± 0.0001  | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Arsenic, dissolved    | < 0.0005       |           | 0.0005  | mg/L | N/A        | 2016-11-30 |  |
| Barium, dissolved     | <b>0.013</b>   | ± 0.002   | 0.005   | mg/L | N/A        | 2016-11-30 |  |
| Beryllium, dissolved  | < 0.0001       |           | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Bismuth, dissolved    | < 0.0001       |           | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Boron, dissolved      | <b>0.028</b>   | ± 0.005   | 0.004   | mg/L | N/A        | 2016-11-30 |  |
| Cadmium, dissolved    | < 0.00001      |           | 0.00001 | mg/L | N/A        | 2016-11-30 |  |
| Calcium, dissolved    | <b>53.3</b>    | ± 8.6     | 0.2     | mg/L | N/A        | 2016-11-30 |  |
| Chromium, dissolved   | <b>0.0008</b>  | ± 0.0002  | 0.0005  | mg/L | N/A        | 2016-11-30 |  |
| Cobalt, dissolved     | <b>0.00006</b> | ± 0.00001 | 0.00005 | mg/L | N/A        | 2016-11-30 |  |
| Copper, dissolved     | <b>0.0011</b>  | ± 0.0004  | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Iron, dissolved       | < 0.010        |           | 0.010   | mg/L | N/A        | 2016-11-30 |  |
| Lead, dissolved       | < 0.0001       |           | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Lithium, dissolved    | <b>0.0002</b>  | ± 0.0001  | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Magnesium, dissolved  | <b>9.50</b>    | ± 1.53    | 0.01    | mg/L | N/A        | 2016-11-30 |  |
| Manganese, dissolved  | <b>0.0027</b>  | ± 0.0004  | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Mercury, dissolved    | < 0.00002      |           | 0.00002 | mg/L | 2016-11-29 | 2016-11-29 |  |
| Molybdenum, dissolved | <b>0.0011</b>  | ± 0.0001  | 0.0001  | mg/L | N/A        | 2016-11-30 |  |
| Nickel, dissolved     | <b>0.0006</b>  | ± 0.0002  | 0.0002  | mg/L | N/A        | 2016-11-30 |  |
| Phosphorus, dissolved | < 0.02         |           | 0.02    | mg/L | N/A        | 2016-11-30 |  |
| Potassium, dissolved  | <b>1.40</b>    | ± 0.19    | 0.02    | mg/L | N/A        | 2016-11-30 |  |



**REPORTED TO PROJECT** Allterra Construction  
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|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 2-SW1 (6111860-02) [Water] Sampled: 2016-11-24 08:15, Continued**

***Dissolved Metals, Continued***

|                      |                |           |         |      |     |            |  |
|----------------------|----------------|-----------|---------|------|-----|------------|--|
| Selenium, dissolved  | < 0.0005       |           | 0.0005  | mg/L | N/A | 2016-11-30 |  |
| Silicon, dissolved   | <b>4.2</b>     | ± 1.9     | 0.5     | mg/L | N/A | 2016-11-30 |  |
| Silver, dissolved    | < 0.00005      |           | 0.00005 | mg/L | N/A | 2016-11-30 |  |
| Sodium, dissolved    | <b>26.6</b>    | ± 4.1     | 0.02    | mg/L | N/A | 2016-11-30 |  |
| Strontium, dissolved | <b>0.189</b>   | ± 0.019   | 0.001   | mg/L | N/A | 2016-11-30 |  |
| Sulfur, dissolved    | <b>31</b>      | ± 31      | 1       | mg/L | N/A | 2016-11-30 |  |
| Tellurium, dissolved | < 0.0002       |           | 0.0002  | mg/L | N/A | 2016-11-30 |  |
| Thallium, dissolved  | < 0.00002      |           | 0.00002 | mg/L | N/A | 2016-11-30 |  |
| Thorium, dissolved   | < 0.0001       |           | 0.0001  | mg/L | N/A | 2016-11-30 |  |
| Tin, dissolved       | < 0.0002       |           | 0.0002  | mg/L | N/A | 2016-11-30 |  |
| Titanium, dissolved  | < 0.005        |           | 0.005   | mg/L | N/A | 2016-11-30 |  |
| Uranium, dissolved   | <b>0.00067</b> | ± 0.00009 | 0.00002 | mg/L | N/A | 2016-11-30 |  |
| Vanadium, dissolved  | < 0.001        |           | 0.001   | mg/L | N/A | 2016-11-30 |  |
| Zinc, dissolved      | < 0.004        |           | 0.004   | mg/L | N/A | 2016-11-30 |  |
| Zirconium, dissolved | < 0.0001       |           | 0.0001  | mg/L | N/A | 2016-11-30 |  |

***Total Metals***

|                   |                |           |         |      |            |            |  |
|-------------------|----------------|-----------|---------|------|------------|------------|--|
| Aluminum, total   | <b>0.484</b>   | ± 0.088   | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Antimony, total   | <b>0.0003</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Arsenic, total    | < 0.0005       |           | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Barium, total     | <b>0.016</b>   | ± 0.002   | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Beryllium, total  | < 0.0001       |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Bismuth, total    | < 0.0001       |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Boron, total      | <b>0.032</b>   | ± 0.006   | 0.004   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Cadmium, total    | < 0.00001      |           | 0.00001 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Calcium, total    | <b>58.8</b>    | ± 6.8     | 0.2     | mg/L | 2016-11-29 | 2016-11-30 |  |
| Chromium, total   | <b>0.0012</b>  | ± 0.0002  | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Cobalt, total     | <b>0.00040</b> | ± 0.00004 | 0.00005 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Copper, total     | <b>0.0024</b>  | ± 0.0003  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Iron, total       | <b>0.53</b>    | ± 0.10    | 0.01    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Lead, total       | <b>0.0003</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Lithium, total    | <b>0.0005</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Magnesium, total  | <b>9.71</b>    | ± 1.48    | 0.01    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Manganese, total  | <b>0.0192</b>  | ± 0.0017  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Mercury, total    | < 0.00002      |           | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Molybdenum, total | <b>0.0011</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Nickel, total     | <b>0.0014</b>  | ± 0.0001  | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Phosphorus, total | <b>0.03</b>    | ± 0.08    | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Potassium, total  | <b>1.42</b>    | ± 0.16    | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Selenium, total   | < 0.0005       |           | 0.0005  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Silicon, total    | <b>4.8</b>     | ± 1.8     | 0.5     | mg/L | 2016-11-29 | 2016-11-30 |  |
| Silver, total     | < 0.00005      |           | 0.00005 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Sodium, total     | <b>27.1</b>    | ± 4.0     | 0.02    | mg/L | 2016-11-29 | 2016-11-30 |  |
| Strontium, total  | <b>0.198</b>   | ± 0.017   | 0.001   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Sulfur, total     | <b>30</b>      | ± 105     | 1       | mg/L | 2016-11-29 | 2016-11-30 |  |
| Tellurium, total  | < 0.0002       |           | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |

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|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 2-SW1 (6111860-02) [Water] Sampled: 2016-11-24 08:15, Continued**

**Total Metals, Continued**

|                  |                |           |         |      |            |            |  |
|------------------|----------------|-----------|---------|------|------------|------------|--|
| Thallium, total  | < 0.00002      |           | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Thorium, total   | < 0.0001       |           | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Tin, total       | < 0.0002       |           | 0.0002  | mg/L | 2016-11-29 | 2016-11-30 |  |
| Titanium, total  | <b>0.025</b>   | ± 0.003   | 0.005   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Uranium, total   | <b>0.00070</b> | ± 0.00004 | 0.00002 | mg/L | 2016-11-29 | 2016-11-30 |  |
| Vanadium, total  | <b>0.002</b>   |           | 0.001   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Zinc, total      | < 0.004        |           | 0.004   | mg/L | 2016-11-29 | 2016-11-30 |  |
| Zirconium, total | <b>0.0003</b>  | ± 0.0001  | 0.0001  | mg/L | 2016-11-29 | 2016-11-30 |  |

**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        |  |
| <i>Surrogate: 2-Methylnonane</i> | 83    |  | 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 |  |
| <i>Surrogate: Tetramethylene Glycol</i> | 109 |  | 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 |     |
| <i>Surrogate: Acridine-d9</i>    | 50     |  | 60-130 | %    | 2016-11-28 | 2016-11-29 | S02 |
| <i>Surrogate: Naphthalene-d8</i> | 87     |  | 60-130 | %    | 2016-11-28 | 2016-11-29 |     |
| <i>Surrogate: Perylene-d12</i>   | 101    |  | 60-130 | %    | 2016-11-28 | 2016-11-29 |     |

**Volatile Organic Compounds (VOC)**

**REPORTED TO PROJECT** Allterra Construction  
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| Analyte | Result /<br>Recovery | Estimate of<br>Uncertainty | MRL /<br>Limits | Units | Prepared | Analyzed | Notes |
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|
|---------|----------------------|----------------------------|-----------------|-------|----------|----------|-------|

**Sample ID: 2-SW1 (6111860-02) [Water] Sampled: 2016-11-24 08:15, Continued**

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

|                                   |       |  |        |      |     |            |  |
|-----------------------------------|-------|--|--------|------|-----|------------|--|
| Benzene                           | < 0.5 |  | 0.5    | µg/L | N/A | 2016-11-30 |  |
| Bromodichloromethane              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Bromoform                         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Bromomethane                      | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Carbon tetrachloride              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chlorobenzene                     | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chloroethane                      | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Chloroform                        | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Chloromethane                     | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Dibromochloromethane              | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dibromoethane                 | < 0.3 |  | 0.3    | µg/L | N/A | 2016-11-30 |  |
| Dibromomethane                    | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichlorobenzene               | < 0.5 |  | 0.5    | µg/L | N/A | 2016-11-30 |  |
| 1,3-Dichlorobenzene               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,4-Dichlorobenzene               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1-Dichloroethane                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichloroethane                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1-Dichloroethene                | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| cis-1,2-Dichloroethene            | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| trans-1,2-Dichloroethene          | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,2-Dichloropropane               | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| cis-1,3-Dichloropropene           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| trans-1,3-Dichloropropene         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Ethylbenzene                      | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Methyl tert-butyl ether           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Methylene chloride                | < 3.0 |  | 3.0    | µg/L | N/A | 2016-11-30 |  |
| Styrene                           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,1,2-Tetrachloroethane         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,2,2-Tetrachloroethane         | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Tetrachloroethene                 | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Toluene                           | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,1-Trichloroethane             | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| 1,1,2-Trichloroethane             | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Trichloroethene                   | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Trichlorofluoromethane            | < 1.0 |  | 1.0    | µg/L | N/A | 2016-11-30 |  |
| Vinyl chloride                    | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Xylenes (total)                   | < 2.0 |  | 2.0    | µg/L | N/A | 2016-11-30 |  |
| Surrogate: Toluene-d8             | 95    |  | 70-130 | %    | N/A | 2016-11-30 |  |
| Surrogate: 4-Bromofluorobenzene   | 103   |  | 70-130 | %    | N/A | 2016-11-30 |  |
| Surrogate: 1,4-Dichlorobenzene-d4 | 105   |  | 70-130 | %    | N/A | 2016-11-30 |  |

**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 B6K1735**

**Blank (B6K1735-BLK1)**

Prepared: 2016-11-26, Analyzed: 2016-11-26

|                |         |            |  |  |  |  |  |  |  |
|----------------|---------|------------|--|--|--|--|--|--|--|
| 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 (B6K1735-BS1)**

Prepared: 2016-11-26, Analyzed: 2016-11-26

|                |      |            |      |  |     |        |  |  |  |
|----------------|------|------------|------|--|-----|--------|--|--|--|
| Chloride       | 16.0 | 0.10 mg/L  | 16.0 |  | 100 | 90-110 |  |  |  |
| Fluoride       | 3.97 | 0.10 mg/L  | 4.00 |  | 99  | 88-108 |  |  |  |
| Nitrate (as N) | 4.21 | 0.010 mg/L | 4.00 |  | 105 | 93-108 |  |  |  |
| Nitrite (as N) | 1.98 | 0.010 mg/L | 2.00 |  | 99  | 83-110 |  |  |  |
| Sulfate        | 16.0 | 1.0 mg/L   | 16.0 |  | 100 | 91-109 |  |  |  |

**BCMOE Aggregate Hydrocarbons, Batch B6K1783**

**Blank (B6K1783-BLK1)**

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 |  |  |  |

**LCS (B6K1783-BS2)**

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 |  |  |  |

**Dissolved Metals, Batch B6K1883**

**Blank (B6K1883-BLK1)**

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

|                    |           |              |  |  |  |  |  |  |  |
|--------------------|-----------|--------------|--|--|--|--|--|--|--|
| Mercury, dissolved | < 0.00002 | 0.00002 mg/L |  |  |  |  |  |  |  |
|--------------------|-----------|--------------|--|--|--|--|--|--|--|

**Reference (B6K1883-SRM1)**

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

|                    |         |              |         |  |     |        |  |  |  |
|--------------------|---------|--------------|---------|--|-----|--------|--|--|--|
| Mercury, dissolved | 0.00529 | 0.00002 mg/L | 0.00489 |  | 108 | 50-150 |  |  |  |
|--------------------|---------|--------------|---------|--|-----|--------|--|--|--|

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| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

*Dissolved Metals, Batch B6K1883, Continued*

*Dissolved Metals, Batch B6K1943*

**Blank (B6K1943-BLK1)**

Prepared: 2016-11-30, Analyzed: 2016-11-30

|                       |           |              |  |  |  |  |  |  |  |
|-----------------------|-----------|--------------|--|--|--|--|--|--|--|
| Aluminum, dissolved   | < 0.005   | 0.005 mg/L   |  |  |  |  |  |  |  |
| Antimony, dissolved   | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Arsenic, dissolved    | < 0.0005  | 0.0005 mg/L  |  |  |  |  |  |  |  |
| Barium, dissolved     | < 0.005   | 0.005 mg/L   |  |  |  |  |  |  |  |
| Beryllium, dissolved  | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Bismuth, dissolved    | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Boron, dissolved      | < 0.004   | 0.004 mg/L   |  |  |  |  |  |  |  |
| Cadmium, dissolved    | < 0.00001 | 0.00001 mg/L |  |  |  |  |  |  |  |
| Calcium, dissolved    | < 0.2     | 0.2 mg/L     |  |  |  |  |  |  |  |
| Chromium, dissolved   | < 0.0005  | 0.0005 mg/L  |  |  |  |  |  |  |  |
| Cobalt, dissolved     | < 0.00005 | 0.00005 mg/L |  |  |  |  |  |  |  |
| Copper, dissolved     | < 0.0002  | 0.0002 mg/L  |  |  |  |  |  |  |  |
| Iron, dissolved       | < 0.010   | 0.010 mg/L   |  |  |  |  |  |  |  |
| Lead, dissolved       | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Lithium, dissolved    | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Magnesium, dissolved  | < 0.01    | 0.01 mg/L    |  |  |  |  |  |  |  |
| Manganese, dissolved  | < 0.0002  | 0.0002 mg/L  |  |  |  |  |  |  |  |
| Molybdenum, dissolved | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Nickel, dissolved     | < 0.0002  | 0.0002 mg/L  |  |  |  |  |  |  |  |
| Phosphorus, dissolved | < 0.02    | 0.02 mg/L    |  |  |  |  |  |  |  |
| Potassium, dissolved  | < 0.02    | 0.02 mg/L    |  |  |  |  |  |  |  |
| Selenium, dissolved   | < 0.0005  | 0.0005 mg/L  |  |  |  |  |  |  |  |
| Silicon, dissolved    | < 0.5     | 0.5 mg/L     |  |  |  |  |  |  |  |
| Silver, dissolved     | < 0.00005 | 0.00005 mg/L |  |  |  |  |  |  |  |
| Sodium, dissolved     | < 0.02    | 0.02 mg/L    |  |  |  |  |  |  |  |
| Strontium, dissolved  | < 0.001   | 0.001 mg/L   |  |  |  |  |  |  |  |
| Sulfur, dissolved     | < 1       | 1 mg/L       |  |  |  |  |  |  |  |
| Tellurium, dissolved  | < 0.0002  | 0.0002 mg/L  |  |  |  |  |  |  |  |
| Thallium, dissolved   | < 0.00002 | 0.00002 mg/L |  |  |  |  |  |  |  |
| Thorium, dissolved    | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |
| Tin, dissolved        | < 0.0002  | 0.0002 mg/L  |  |  |  |  |  |  |  |
| Titanium, dissolved   | < 0.005   | 0.005 mg/L   |  |  |  |  |  |  |  |
| Uranium, dissolved    | < 0.00002 | 0.00002 mg/L |  |  |  |  |  |  |  |
| Vanadium, dissolved   | < 0.001   | 0.001 mg/L   |  |  |  |  |  |  |  |
| Zinc, dissolved       | < 0.004   | 0.004 mg/L   |  |  |  |  |  |  |  |
| Zirconium, dissolved  | < 0.0001  | 0.0001 mg/L  |  |  |  |  |  |  |  |

**Duplicate (B6K1943-DUP1)**

Source: 6111860-01

Prepared: 2016-11-30, Analyzed: 2016-11-30

|                      |           |              |           |    |    |
|----------------------|-----------|--------------|-----------|----|----|
| Aluminum, dissolved  | 0.008     | 0.005 mg/L   | 0.009     | 11 |    |
| Antimony, dissolved  | 0.0002    | 0.0001 mg/L  | 0.0002    | 44 |    |
| Arsenic, dissolved   | < 0.0005  | 0.0005 mg/L  | < 0.0005  | 8  |    |
| Barium, dissolved    | 0.007     | 0.005 mg/L   | 0.007     | 7  |    |
| Beryllium, dissolved | < 0.0001  | 0.0001 mg/L  | < 0.0001  | 14 |    |
| Bismuth, dissolved   | < 0.0001  | 0.0001 mg/L  | < 0.0001  | 20 |    |
| Boron, dissolved     | 0.019     | 0.004 mg/L   | 0.024     | 25 | 13 |
| Cadmium, dissolved   | < 0.00001 | 0.00001 mg/L | < 0.00001 | 27 |    |
| Calcium, dissolved   | 37.3      | 0.2 mg/L     | 39.0      | 4  | 8  |
| Chromium, dissolved  | 0.0006    | 0.0005 mg/L  | 0.0007    | 14 |    |
| Cobalt, dissolved    | < 0.00005 | 0.00005 mg/L | < 0.00005 | 10 |    |
| Copper, dissolved    | 0.0006    | 0.0002 mg/L  | 0.0006    | 28 |    |
| Iron, dissolved      | < 0.010   | 0.010 mg/L   | < 0.010   | 14 |    |
| Lead, dissolved      | < 0.0001  | 0.0001 mg/L  | < 0.0001  | 26 |    |
| Lithium, dissolved   | 0.0001    | 0.0001 mg/L  | 0.0001    | 14 |    |
| Magnesium, dissolved | 6.96      | 0.01 mg/L    | 6.89      | 1  | 6  |

**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>Dissolved Metals, Batch B6K1943, Continued</b> |           |   |             |   |       |           |       |           |       |
| <b>Duplicate (B6K1943-DUP1), Continued</b>        |           | <b>Source: 6111860-01</b>                         |             | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |       |           |       |           |       |
| Manganese, dissolved                              | 0.0016    | 0.0002 mg/L                                       |             | 0.0016  |       |           | 3     | 9         |       |
| Molybdenum, dissolved                             | 0.0007    | 0.0001 mg/L                                       |             | 0.0006  |       |           | 2     | 19        |       |
| Nickel, dissolved                                 | 0.0005    | 0.0002 mg/L                                       |             | 0.0006  |       |           |       | 21        |       |
| Phosphorus, dissolved                             | < 0.02    | 0.02 mg/L   |             | < 0.02  |       |           |       | 14        |       |
| Potassium, dissolved                              | 1.14      | 0.02 mg/L   |             | 1.15  |       |           | < 1   | 8         |       |
| Selenium, dissolved                               | < 0.0005  | 0.0005 mg/L                                       |             | < 0.0005  |       |           |       | 36        |       |
| Silicon, dissolved                                | 2.8       | 0.5 mg/L  |             | 2.8   |       |           | < 1   | 12        |       |
| Silver, dissolved                                 | 0.00005   | 0.00005 mg/L                                      |             | < 0.00005   |       |           |       | 20        |       |
| Sodium, dissolved                                 | 22.6      | 0.02 mg/L   |             | 22.8  |       |           | < 1   | 6         |       |
| Strontium, dissolved                              | 0.140     | 0.001 mg/L  |             | 0.143   |       |           | 2     | 6         |       |
| Sulfur, dissolved                                 | 23        | 1 mg/L  |             | 23  |       |           | < 1   | 26        |       |
| Tellurium, dissolved                              | < 0.0002  | 0.0002 mg/L                                       |             | < 0.0002  |       |           |       | 20        |       |
| Thallium, dissolved                               | < 0.00002 | 0.00002 mg/L                                      |             | < 0.00002   |       |           |       | 13        |       |
| Thorium, dissolved                                | < 0.0001  | 0.0001 mg/L                                       |             | < 0.0001  |       |           |       | 30        |       |
| Tin, dissolved                                    | < 0.0002  | 0.0002 mg/L                                       |             | < 0.0002  |       |           |       | 6         |       |
| Titanium, dissolved                               | < 0.005   | 0.005 mg/L  |             | < 0.005   |       |           |       | 20        |       |
| Uranium, dissolved                                | 0.00040   | 0.00002 mg/L                                      |             | 0.00041   |       |           | 2     | 14        |       |
| Vanadium, dissolved                               | < 0.001   | 0.001 mg/L  |             | < 0.001   |       |           |       | 20        |       |
| Zinc, dissolved                                   | < 0.004   | 0.004 mg/L  |             | < 0.004   |       |           |       | 11        |       |
| Zirconium, dissolved                              | < 0.0001  | 0.0001 mg/L                                       |             | < 0.0001  |       |           |       | 36        |       |
| <b>Matrix Spike (B6K1943-MS1)</b>                 |           | <b>Source: 6111860-02</b>                         |             | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |       |           |       |           |       |
| Antimony, dissolved                               | 0.374     | 0.0001 mg/L                                       | 0.400       | 0.0003  | 93    | 76-114    |       |           |       |
| Arsenic, dissolved                                | 0.201     | 0.0005 mg/L                                       | 0.200       | < 0.0005  | 101   | 81-115    |       |           |       |
| Barium, dissolved                                 | 0.972     | 0.005 mg/L  | 1.00        | 0.013   | 96    | 80-113    |       |           |       |
| Beryllium, dissolved                              | 0.0963    | 0.0001 mg/L                                       | 0.100       | < 0.0001  | 96    | 69-109    |       |           |       |
| Cadmium, dissolved                                | 0.0993    | 0.00001 mg/L                                      | 0.100       | < 0.00001   | 99    | 83-110    |       |           |       |
| Chromium, dissolved                               | 0.395     | 0.0005 mg/L                                       | 0.400       | 0.0008  | 98    | 85-115    |       |           |       |
| Cobalt, dissolved                                 | 0.393     | 0.00005 mg/L                                      | 0.400       | 0.00006   | 98    | 86-114    |       |           |       |
| Copper, dissolved                                 | 0.402     | 0.0002 mg/L                                       | 0.400       | 0.0011  | 100   | 82-119    |       |           |       |
| Iron, dissolved                                   | 1.97      | 0.010 mg/L  | 2.00        | < 0.010   | 99    | 80-116    |       |           |       |
| Lead, dissolved                                   | 0.201     | 0.0001 mg/L                                       | 0.200       | < 0.0001  | 100   | 83-112    |       |           |       |
| Manganese, dissolved                              | 0.389     | 0.0002 mg/L                                       | 0.400       | 0.0027  | 97    | 62-131    |       |           |       |
| Nickel, dissolved                                 | 0.395     | 0.0002 mg/L                                       | 0.400       | 0.0006  | 99    | 81-115    |       |           |       |
| Selenium, dissolved                               | 0.105     | 0.0005 mg/L                                       | 0.100       | < 0.0005  | 104   | 79-115    |       |           |       |
| Silver, dissolved                                 | 0.0995    | 0.00005 mg/L                                      | 0.100       | < 0.00005   | 99    | 69-121    |       |           |       |
| Thallium, dissolved                               | 0.0999    | 0.00002 mg/L                                      | 0.100       | < 0.00002   | 100   | 84-115    |       |           |       |
| Vanadium, dissolved                               | 0.381     | 0.001 mg/L  | 0.400       | < 0.001   | 95    | 83-113    |       |           |       |
| Zinc, dissolved                                   | 0.993     | 0.004 mg/L  | 1.00        | < 0.004   | 99    | 82-115    |       |           |       |
| <b>Reference (B6K1943-SRM1)</b>                   |           | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |             |   |       |           |       |           |       |
| Aluminum, dissolved                               | 0.225     | 0.005 mg/L  | 0.233       |   | 97    | 58-142    |       |           |       |
| Antimony, dissolved                               | 0.0454    | 0.0001 mg/L                                       | 0.0430      |   | 106   | 75-125    |       |           |       |
| Arsenic, dissolved                                | 0.454     | 0.0005 mg/L                                       | 0.438       |   | 104   | 81-119    |       |           |       |
| Barium, dissolved                                 | 3.33      | 0.005 mg/L  | 3.35        |   | 99    | 83-117    |       |           |       |
| Beryllium, dissolved                              | 0.215     | 0.0001 mg/L                                       | 0.213       |   | 101   | 80-120    |       |           |       |
| Boron, dissolved                                  | 1.71      | 0.004 mg/L  | 1.74        |   | 98    | 74-117    |       |           |       |
| Cadmium, dissolved                                | 0.235     | 0.00001 mg/L                                      | 0.224       |   | 105   | 83-117    |       |           |       |
| Calcium, dissolved                                | 7.6       | 0.2 mg/L  | 7.69        |   | 99    | 76-124    |       |           |       |
| Chromium, dissolved                               | 0.441     | 0.0005 mg/L                                       | 0.437       |   | 101   | 81-119    |       |           |       |
| Cobalt, dissolved                                 | 0.135     | 0.00005 mg/L                                      | 0.128       |   | 106   | 76-124    |       |           |       |
| Copper, dissolved                                 | 0.881     | 0.0002 mg/L                                       | 0.844       |   | 104   | 84-116    |       |           |       |
| Iron, dissolved                                   | 1.31      | 0.010 mg/L  | 1.29        |   | 102   | 74-126    |       |           |       |
| Lead, dissolved                                   | 0.116     | 0.0001 mg/L                                       | 0.112       |   | 104   | 72-128    |       |           |       |
| Lithium, dissolved                                | 0.104     | 0.0001 mg/L                                       | 0.104       |   | 100   | 60-140    |       |           |       |
| Magnesium, dissolved                              | 7.06      | 0.01 mg/L   | 6.92        |   | 102   | 81-119    |       |           |       |
| Manganese, dissolved                              | 0.347     | 0.0002 mg/L                                       | 0.345       |   | 101   | 84-116    |       |           |       |

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**Dissolved Metals, Batch B6K1943, Continued**

**Reference (B6K1943-SRM1), Continued**

Prepared: 2016-11-30, Analyzed: 2016-11-30

|                       |        |              |        |  |     |        |  |  |  |
|-----------------------|--------|--------------|--------|--|-----|--------|--|--|--|
| Molybdenum, dissolved | 0.426  | 0.0001 mg/L  | 0.426  |  | 100 | 83-117 |  |  |  |
| Nickel, dissolved     | 0.871  | 0.0002 mg/L  | 0.840  |  | 104 | 74-126 |  |  |  |
| Phosphorus, dissolved | 0.52   | 0.02 mg/L    | 0.495  |  | 105 | 68-132 |  |  |  |
| Potassium, dissolved  | 3.24   | 0.02 mg/L    | 3.19   |  | 102 | 74-126 |  |  |  |
| Selenium, dissolved   | 0.0364 | 0.0005 mg/L  | 0.0331 |  | 110 | 70-130 |  |  |  |
| Sodium, dissolved     | 19.1   | 0.02 mg/L    | 19.1   |  | 100 | 72-128 |  |  |  |
| Strontium, dissolved  | 0.899  | 0.001 mg/L   | 0.916  |  | 98  | 84-113 |  |  |  |
| Thallium, dissolved   | 0.0406 | 0.00002 mg/L | 0.0393 |  | 103 | 57-143 |  |  |  |
| Uranium, dissolved    | 0.268  | 0.00002 mg/L | 0.266  |  | 101 | 85-115 |  |  |  |
| Vanadium, dissolved   | 0.859  | 0.001 mg/L   | 0.869  |  | 99  | 87-113 |  |  |  |
| Zinc, dissolved       | 0.910  | 0.004 mg/L   | 0.881  |  | 103 | 72-128 |  |  |  |

**General Parameters, Batch B6K1744**

**Blank (B6K1744-BLK1)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|              |     |      |  |  |  |  |  |  |  |
|--------------|-----|------|--|--|--|--|--|--|--|
| Colour, True | < 5 | 5 CU |  |  |  |  |  |  |  |
|--------------|-----|------|--|--|--|--|--|--|--|

**LCS (B6K1744-BS1)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|              |    |      |      |  |     |        |  |  |  |
|--------------|----|------|------|--|-----|--------|--|--|--|
| Colour, True | 10 | 5 CU | 10.0 |  | 100 | 85-115 |  |  |  |
|--------------|----|------|------|--|-----|--------|--|--|--|

**General Parameters, Batch B6K1745**

**Blank (B6K1745-BLK1)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|  |     |         |  |  |  |  |  |  |  |
|--|-----|---------|--|--|--|--|--|--|--|
| 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 |  |  |  |  |  |  |  |

**Blank (B6K1745-BLK2)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|  |     |         |  |  |  |  |  |  |  |
|--|-----|---------|--|--|--|--|--|--|--|
| 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 |  |  |  |  |  |  |  |

**Blank (B6K1745-BLK3)**

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

|  |     |         |  |  |  |  |  |  |  |
|--|-----|---------|--|--|--|--|--|--|--|
| 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 |  |  |  |  |  |  |  |

**LCS (B6K1745-BS1)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|                              |     |        |     |  |     |        |  |  |  |
|------------------------------|-----|--------|-----|--|-----|--------|--|--|--|
| Alkalinity, Total (as CaCO3) | 100 | 1 mg/L | 100 |  | 100 | 96-108 |  |  |  |
|------------------------------|-----|--------|-----|--|-----|--------|--|--|--|

**LCS (B6K1745-BS2)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|                   |      |         |      |  |    |        |  |  |  |
|-------------------|------|---------|------|--|----|--------|--|--|--|
| Conductivity (EC) | 1400 | 2 µS/cm | 1410 |  | 99 | 95-104 |  |  |  |
|-------------------|------|---------|------|--|----|--------|--|--|--|

**LCS (B6K1745-BS3)**

Prepared: 2016-11-27, Analyzed: 2016-11-27

|                              |     |        |     |  |     |        |  |  |  |
|------------------------------|-----|--------|-----|--|-----|--------|--|--|--|
| Alkalinity, Total (as CaCO3) | 100 | 1 mg/L | 100 |  | 100 | 96-108 |  |  |  |
|------------------------------|-----|--------|-----|--|-----|--------|--|--|--|



## APPENDIX 1: QUALITY CONTROL DATA

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

**WORK ORDER REPORTED** 6111860  
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| Analyte   | Result  | MRL Units     | Spike Level                                | Source Result | % REC                                      | REC Limit | % RPD | RPD Limit | Notes |
|---|---------|---------------|--|---------------|--|-----------|-------|-----------|-------|
| <b>General Parameters, Batch B6K1745, Continued</b> |         |               |  |               |  |           |       |           |       |
| <b>LCS (B6K1745-BS4)</b>                            |         |               | Prepared: 2016-11-27, Analyzed: 2016-11-27 |               |  |           |       |           |       |
| Conductivity (EC)                                   | 1400    | 2 µS/cm       | 1410                                       |               | 100  | 95-104    |       |           |       |
| <b>LCS (B6K1745-BS5)</b>                            |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Alkalinity, Total (as CaCO3)                        | 104     | 1 mg/L        | 100  |               | 104  | 96-108    |       |           |       |
| <b>LCS (B6K1745-BS6)</b>                            |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Conductivity (EC)                                   | 1420    | 2 µS/cm       | 1410                                       |               | 101  | 95-104    |       |           |       |
| <b>Reference (B6K1745-SRM1)</b>                     |         |               | Prepared: 2016-11-27, Analyzed: 2016-11-27 |               |  |           |       |           |       |
| pH  | 6.94    | 0.01 pH units | 7.00                                       |               | 99   | 98-102    |       |           |       |
| <b>Reference (B6K1745-SRM2)</b>                     |         |               | Prepared: 2016-11-27, Analyzed: 2016-11-27 |               |  |           |       |           |       |
| pH  | 6.95    | 0.01 pH units | 7.00                                       |               | 99   | 98-102    |       |           |       |
| <b>Reference (B6K1745-SRM3)</b>                     |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| pH  | 6.96    | 0.01 pH units | 7.00                                       |               | 99   | 98-102    |       |           |       |
| <b>General Parameters, Batch B6K1746</b>            |         |               |  |               |  |           |       |           |       |
| <b>Blank (B6K1746-BLK1)</b>                         |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Turbidity   | < 0.10  | 0.10 NTU      |  |               |  |           |       |           |       |
| <b>LCS (B6K1746-BS1)</b>                            |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Turbidity   | 38.9    | 0.10 NTU      | 40.0                                       |               | 97   | 90-110    |       |           |       |
| <b>General Parameters, Batch B6K1769</b>            |         |               |  |               |  |           |       |           |       |
| <b>Blank (B6K1769-BLK1)</b>                         |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Solids, Total Suspended                             | < 1     | 2 mg/L        |  |               |  |           |       |           |       |
| <b>LCS (B6K1769-BS1)</b>                            |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Solids, Total Suspended                             | 49      | 2 mg/L        | 50.0                                       |               | 99   | 85-110    |       |           |       |
| <b>Reference (B6K1769-SRM1)</b>                     |         |               | Prepared: 2016-11-28, Analyzed: 2016-11-28 |               |  |           |       |           |       |
| Solids, Total Suspended                             | 380     | 2 mg/L        | 459  |               | 83   | 80-120    |       |           |       |
| <b>General Parameters, Batch B6K1888</b>            |         |               |  |               |  |           |       |           |       |
| <b>Blank (B6K1888-BLK1)</b>                         |         |               | Prepared: 2016-11-29, Analyzed: 2016-11-29 |               |  |           |       |           |       |
| Chromium, Hexavalent                                | < 0.001 | 0.001 mg/L    |  |               |  |           |       |           |       |
| <b>LCS (B6K1888-BS1)</b>                            |         |               | Prepared: 2016-11-29, Analyzed: 2016-11-29 |               |  |           |       |           |       |
| Chromium, Hexavalent                                | 0.101   | 0.001 mg/L    | 0.100                                      |               | 101  | 90-111    |       |           |       |
| <b>Duplicate (B6K1888-DUP1)</b>                     |         |               | <b>Source: 6111860-02</b>                  |               | Prepared: 2016-11-29, Analyzed: 2016-11-29 |           |       |           |       |
| Chromium, Hexavalent                                | < 0.001 | 0.001 mg/L    |  | < 0.001       |  |           |       |           | 7     |
| <b>Matrix Spike (B6K1888-MS1)</b>                   |         |               | <b>Source: 6111860-01</b>                  |               | Prepared: 2016-11-29, Analyzed: 2016-11-29 |           |       |           |       |
| Chromium, Hexavalent                                | 0.096   | 0.001 mg/L    | 0.100                                      | < 0.001       | 96   | 70-116    |       |           |       |
| <b>General Parameters, Batch B6K1992</b>            |         |               |  |               |  |           |       |           |       |
| <b>Blank (B6K1992-BLK1)</b>                         |         |               | Prepared: 2016-11-30, Analyzed: 2016-11-30 |               |  |           |       |           |       |
| Solids, Total Dissolved                             | < 10    | 10 mg/L       |  |               |  |           |       |           |       |



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

**WORK ORDER REPORTED** 6111860  
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| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**General Parameters, Batch B6K1992, Continued**

| <b>Duplicate (B6K1992-DUP1)</b> |     | <b>Source: 6111860-01</b> |  | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |  |     |   |        |  |
|---------------------------------|-----|---------------------------|--|---|--|-----|---|--------|--|
| Solids, Total Dissolved         | 235 | 10 mg/L                   |  | 231   |  |     | 2 | 16     |  |
| <b>Reference (B6K1992-SRM1)</b> |     |                           |  | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |  |     |   |        |  |
| Solids, Total Dissolved         | 241 | 10 mg/L                   |  | 240   |  | 100 |   | 85-115 |  |

**Glycols, Batch B6K1864**

| <b>Blank (B6K1864-BLK1)</b>      |     | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |  |      |  |     |  |        |  |
|----------------------------------|-----|---|--|------|--|-----|--|--------|--|
| 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 | 104 | mg/L  |  | 95.6 |  | 109 |  | 66-125 |  |

| <b>LCS (B6K1864-BS1)</b>         |     | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |  |      |  |     |  |        |  |
|----------------------------------|-----|---|--|------|--|-----|--|--------|--|
| 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>    |     | <b>Prepared: 2016-11-30, Analyzed: 2016-11-30</b> |  |      |  |     |        |     |    |
|----------------------------------|-----|---|--|------|--|-----|--------|-----|----|
| 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 |     |    |

**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K1783**

| <b>Blank (B6K1783-BLK1)</b> |        | <b>Prepared: 2016-11-28, Analyzed: 2016-11-29</b> |  |      |  |     |        |  |     |
|-----------------------------|--------|---|--|------|--|-----|--------|--|-----|
| 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> |      | <b>Prepared: 2016-11-28, Analyzed: 2016-11-29</b> |  |      |  |    |        |  |  |
|--------------------------|------|---|--|------|--|----|--------|--|--|
| Acenaphthene             | 4.18 | 0.05 µg/L   |  | 4.44 |  | 94 | 70-130 |  |  |
| Acenaphthylene           | 4.05 | 0.20 µg/L   |  | 4.44 |  | 91 | 70-130 |  |  |

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K1783, Continued**

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

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

|                           |      |           |      |  |     |        |  |  |  |
|---------------------------|------|-----------|------|--|-----|--------|--|--|--|
| 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 |  |  |  |
| 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 B6K1925**

**Blank (B6K1925-BLK1)**

Prepared: 2016-11-29, Analyzed: 2016-11-30

|                  |           |              |  |  |  |  |  |  |  |
|------------------|-----------|--------------|--|--|--|--|--|--|--|
| 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  |  |  |  |  |  |  |  |

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**Total Metals, Batch B6K1925, Continued**

**Blank (B6K1925-BLK1), Continued**

Prepared: 2016-11-29, Analyzed: 2016-11-30

|                   |           |              |  |  |  |  |  |  |  |
|-------------------|-----------|--------------|--|--|--|--|--|--|--|
| 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 (B6K1925-DUP1)**

Source: 6111860-01

Prepared: 2016-11-29, Analyzed: 2016-11-30

|                   |           |              |  |           |  |  |    |    |  |
|-------------------|-----------|--------------|--|-----------|--|--|----|----|--|
| Aluminum, total   | 2.55      | 0.005 mg/L   |  | 2.42      |  |  | 5  | 29 |  |
| Antimony, total   | 0.0003    | 0.0001 mg/L  |  | 0.0003    |  |  |    | 31 |  |
| Arsenic, total    | 0.0007    | 0.0005 mg/L  |  | 0.0006    |  |  |    | 15 |  |
| Barium, total     | 0.022     | 0.005 mg/L   |  | 0.021     |  |  |    | 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      | 0.020     | 0.004 mg/L   |  | 0.030     |  |  | 38 | 29 |  |
| Cadmium, total    | 0.00001   | 0.00001 mg/L |  | 0.00001   |  |  |    | 33 |  |
| Calcium, total    | 42.8      | 0.2 mg/L     |  | 41.5      |  |  | 3  | 12 |  |
| Chromium, total   | 0.0052    | 0.0005 mg/L  |  | 0.0053    |  |  | 2  | 12 |  |
| Cobalt, total     | 0.00128   | 0.00005 mg/L |  | 0.00120   |  |  | 7  | 13 |  |
| Copper, total     | 0.0062    | 0.0002 mg/L  |  | 0.0057    |  |  | 9  | 37 |  |
| Iron, total       | 2.71      | 0.01 mg/L    |  | 2.57      |  |  | 5  | 18 |  |
| Lead, total       | 0.0014    | 0.0001 mg/L  |  | 0.0014    |  |  | 4  | 23 |  |
| Lithium, total    | 0.0015    | 0.0001 mg/L  |  | 0.0015    |  |  | 2  | 19 |  |
| Magnesium, total  | 7.86      | 0.01 mg/L    |  | 7.53      |  |  | 4  | 10 |  |
| Manganese, total  | 0.0434    | 0.0002 mg/L  |  | 0.0407    |  |  | 7  | 13 |  |
| Molybdenum, total | 0.0007    | 0.0001 mg/L  |  | 0.0007    |  |  | 2  | 20 |  |
| Nickel, total     | 0.0042    | 0.0002 mg/L  |  | 0.0042    |  |  | 2  | 28 |  |
| Phosphorus, total | 0.06      | 0.02 mg/L    |  | 0.06      |  |  |    | 24 |  |
| Potassium, total  | 1.48      | 0.02 mg/L    |  | 1.41      |  |  | 5  | 13 |  |
| Selenium, total   | < 0.0005  | 0.0005 mg/L  |  | < 0.0005  |  |  |    | 24 |  |
| Silicon, total    | 7.6       | 0.5 mg/L     |  | 7.3       |  |  | 4  | 11 |  |
| Silver, total     | < 0.00005 | 0.00005 mg/L |  | < 0.00005 |  |  |    | 18 |  |
| Sodium, total     | 23.8      | 0.02 mg/L    |  | 22.9      |  |  | 4  | 10 |  |
| Strontium, total  | 0.155     | 0.001 mg/L   |  | 0.148     |  |  | 4  | 9  |  |
| Sulfur, total     | 23        | 1 mg/L       |  | 23        |  |  | 2  | 24 |  |
| Tellurium, total  | < 0.0002  | 0.0002 mg/L  |  | < 0.0002  |  |  |    | 20 |  |
| Thallium, total   | < 0.00002 | 0.00002 mg/L |  | < 0.00002 |  |  |    | 24 |  |

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**Total Metals, Batch B6K1925, Continued**

| Duplicate (B6K1925-DUP1), Continued |          | Source: 6111860-01 |  | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |  |    |    |  |
|-------------------------------------|----------|--------------------|--|--|--|--|----|----|--|
| Thorium, total                      | 0.0001   | 0.0001 mg/L        |  | 0.0001                                     |  |  |    | 18 |  |
| Tin, total                          | < 0.0002 | 0.0002 mg/L        |  | < 0.0002                                   |  |  |    | 18 |  |
| Titanium, total                     | 0.141    | 0.005 mg/L         |  | 0.138                                      |  |  | 3  | 32 |  |
| Uranium, total                      | 0.00048  | 0.00002 mg/L       |  | 0.00046                                    |  |  | 4  | 14 |  |
| Vanadium, total                     | 0.007    | 0.001 mg/L         |  | 0.007                                      |  |  | 3  | 17 |  |
| Zinc, total                         | 0.009    | 0.004 mg/L         |  | 0.009                                      |  |  |    | 8  |  |
| Zirconium, total                    | 0.0011   | 0.0001 mg/L        |  | 0.0007                                     |  |  | 52 | 60 |  |

| Reference (B6K1925-SRM1) |        | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |        |  |     |  |        |  |
|--------------------------|--------|--|--|--------|--|-----|--|--------|--|
| Aluminum, total          | 0.288  | 0.005 mg/L                                 |  | 0.303  |  | 95  |  | 81-129 |  |
| Antimony, total          | 0.0520 | 0.0001 mg/L                                |  | 0.0511 |  | 102 |  | 88-114 |  |
| Arsenic, total           | 0.117  | 0.0005 mg/L                                |  | 0.118  |  | 99  |  | 88-114 |  |
| Barium, total            | 0.764  | 0.005 mg/L                                 |  | 0.823  |  | 93  |  | 72-104 |  |
| Beryllium, total         | 0.0480 | 0.0001 mg/L                                |  | 0.0496 |  | 97  |  | 76-131 |  |
| Boron, total             | 3.29   | 0.004 mg/L                                 |  | 3.45   |  | 95  |  | 75-121 |  |
| Cadmium, total           | 0.0499 | 0.00001 mg/L                               |  | 0.0495 |  | 101 |  | 89-111 |  |
| Calcium, total           | 11.7   | 0.2 mg/L                                   |  | 11.6   |  | 100 |  | 86-121 |  |
| Chromium, total          | 0.244  | 0.0005 mg/L                                |  | 0.250  |  | 97  |  | 89-114 |  |
| Cobalt, total            | 0.0381 | 0.00005 mg/L                               |  | 0.0377 |  | 101 |  | 91-113 |  |
| Copper, total            | 0.497  | 0.0002 mg/L                                |  | 0.486  |  | 102 |  | 91-115 |  |
| Iron, total              | 0.49   | 0.01 mg/L                                  |  | 0.488  |  | 101 |  | 77-124 |  |
| Lead, total              | 0.203  | 0.0001 mg/L                                |  | 0.204  |  | 100 |  | 92-113 |  |
| Lithium, total           | 0.375  | 0.0001 mg/L                                |  | 0.403  |  | 93  |  | 85-115 |  |
| Magnesium, total         | 3.81   | 0.01 mg/L                                  |  | 3.79   |  | 101 |  | 78-120 |  |
| Manganese, total         | 0.104  | 0.0002 mg/L                                |  | 0.109  |  | 95  |  | 90-114 |  |
| Molybdenum, total        | 0.199  | 0.0001 mg/L                                |  | 0.198  |  | 101 |  | 90-111 |  |
| Nickel, total            | 0.248  | 0.0002 mg/L                                |  | 0.249  |  | 100 |  | 90-111 |  |
| Phosphorus, total        | 0.22   | 0.02 mg/L                                  |  | 0.227  |  | 99  |  | 85-115 |  |
| Potassium, total         | 7.12   | 0.02 mg/L                                  |  | 7.21   |  | 99  |  | 84-113 |  |
| Selenium, total          | 0.131  | 0.0005 mg/L                                |  | 0.121  |  | 108 |  | 85-115 |  |
| Sodium, total            | 7.56   | 0.02 mg/L                                  |  | 7.54   |  | 100 |  | 82-123 |  |
| Strontium, total         | 0.374  | 0.001 mg/L                                 |  | 0.375  |  | 100 |  | 88-112 |  |
| Thallium, total          | 0.0816 | 0.00002 mg/L                               |  | 0.0805 |  | 101 |  | 91-114 |  |
| Uranium, total           | 0.0298 | 0.00002 mg/L                               |  | 0.0306 |  | 98  |  | 85-120 |  |
| Vanadium, total          | 0.371  | 0.001 mg/L                                 |  | 0.386  |  | 96  |  | 86-111 |  |
| Zinc, total              | 2.44   | 0.004 mg/L                                 |  | 2.49   |  | 98  |  | 85-111 |  |

**Total Metals, Batch B6K1927**

| Blank (B6K1927-BLK1)     |           | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |         |  |     |  |        |  |
|--------------------------|-----------|--|--|---------|--|-----|--|--------|--|
| Mercury, total           | < 0.00002 | 0.00002 mg/L                               |  |         |  |     |  |        |  |
| Blank (B6K1927-BLK2)     |           | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |         |  |     |  |        |  |
| Mercury, total           | < 0.00002 | 0.00002 mg/L                               |  |         |  |     |  |        |  |
| Reference (B6K1927-SRM1) |           | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |         |  |     |  |        |  |
| Mercury, total           | 0.00526   | 0.00002 mg/L                               |  | 0.00489 |  | 108 |  | 50-150 |  |
| Reference (B6K1927-SRM2) |           | Prepared: 2016-11-29, Analyzed: 2016-11-30 |  |         |  |     |  |        |  |
| Mercury, total           | 0.00503   | 0.00002 mg/L                               |  | 0.00489 |  | 103 |  | 50-150 |  |

**Volatile Organic Compounds (VOC), Batch B6K1754**

| Blank (B6K1754-BLK1) |       | Prepared: 2016-11-30, Analyzed: 2016-11-30 |  |  |  |  |  |  |  |
|----------------------|-------|--|--|--|--|--|--|--|--|
| Benzene              | < 0.5 | 0.5 µg/L                                   |  |  |  |  |  |  |  |
| Bromodichloromethane | < 1.0 | 1.0 µg/L                                   |  |  |  |  |  |  |  |

**APPENDIX 1: QUALITY CONTROL DATA**

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

| Analyte | Result | MRL Units | Spike Level | Source Result | % REC | REC Limit | % RPD | RPD Limit | Notes |
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|
|---------|--------|-----------|-------------|---------------|-------|-----------|-------|-----------|-------|

**Volatile Organic Compounds (VOC), Batch B6K1754, Continued**

**Blank (B6K1754-BLK1), Continued**

Prepared: 2016-11-30, Analyzed: 2016-11-30

|                                   |       |          |      |  |     |        |  |  |  |
|-----------------------------------|-------|----------|------|--|-----|--------|--|--|--|
| 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             | 26.4  | µg/L     | 25.0 |  | 106 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 28.3  | µg/L     | 25.0 |  | 113 | 70-130 |  |  |  |
| Surrogate: 1,4-Dichlorobenzene-d4 | 28.6  | µg/L     | 25.0 |  | 114 | 70-130 |  |  |  |

**LCS (B6K1754-BS1)**

Prepared: 2016-11-30, Analyzed: 2016-11-30

|                      |      |          |      |  |     |        |  |  |     |
|----------------------|------|----------|------|--|-----|--------|--|--|-----|
| Benzene              | 23.2 | 0.5 µg/L | 20.0 |  | 116 | 70-130 |  |  |     |
| Bromodichloromethane | 23.5 | 1.0 µg/L | 20.0 |  | 117 | 70-130 |  |  |     |
| Bromoform            | 24.4 | 1.0 µg/L | 20.0 |  | 122 | 70-130 |  |  |     |
| Bromomethane         | 39.2 | 2.0 µg/L | 20.0 |  | 196 | 70-130 |  |  | SPK |
| Carbon tetrachloride | 26.1 | 1.0 µg/L | 20.0 |  | 130 | 70-130 |  |  |     |
| Chlorobenzene        | 24.5 | 1.0 µg/L | 20.0 |  | 122 | 70-130 |  |  |     |
| Chloroethane         | 22.2 | 2.0 µg/L | 20.0 |  | 111 | 70-130 |  |  |     |
| Chloroform           | 25.5 | 1.0 µg/L | 20.0 |  | 128 | 70-130 |  |  |     |
| Chloromethane        | 31.2 | 2.0 µg/L | 20.0 |  | 156 | 70-130 |  |  | SPK |
| Dibromochloromethane | 23.1 | 1.0 µg/L | 20.0 |  | 116 | 70-130 |  |  |     |
| 1,2-Dibromoethane    | 22.4 | 0.3 µg/L | 20.0 |  | 112 | 70-130 |  |  |     |
| Dibromomethane       | 24.0 | 1.0 µg/L | 20.0 |  | 120 | 70-130 |  |  |     |
| 1,2-Dichlorobenzene  | 25.3 | 0.5 µg/L | 20.0 |  | 127 | 70-130 |  |  |     |
| 1,3-Dichlorobenzene  | 25.1 | 1.0 µg/L | 20.0 |  | 126 | 70-130 |  |  |     |
| 1,4-Dichlorobenzene  | 26.2 | 1.0 µg/L | 20.0 |  | 131 | 70-130 |  |  | SPK |
| 1,1-Dichloroethane   | 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** 6111860  
2016-12-02

| Analyte   | Result | MRL Units | Spike Level | Source Result | % REC                                      | REC Limit | % RPD | RPD Limit | Notes |
|---|--------|-----------|-------------|---------------|--|-----------|-------|-----------|-------|
| <b>Volatile Organic Compounds (VOC), Batch B6K1754, Continued</b> |        |           |             |               |  |           |       |           |       |
| <b>LCS (B6K1754-BS1), Continued</b>                               |        |           |             |               | Prepared: 2016-11-30, Analyzed: 2016-11-30 |           |       |           |       |
| 1,2-Dichloroethane  | 25.2   | 1.0 µg/L  | 20.0        |               | 126  | 70-130    |       |           |       |
| 1,1-Dichloroethene  | 25.9   | 1.0 µg/L  | 20.0        |               | 130  | 70-130    |       |           |       |
| cis-1,2-Dichloroethene  | 22.9   | 1.0 µg/L  | 20.0        |               | 115  | 70-130    |       |           |       |
| trans-1,2-Dichloroethene  | 22.8   | 1.0 µg/L  | 20.0        |               | 114  | 70-130    |       |           |       |
| 1,2-Dichloropropane   | 21.8   | 1.0 µg/L  | 20.0        |               | 109  | 70-130    |       |           |       |
| cis-1,3-Dichloropropene   | 23.3   | 1.0 µg/L  | 20.0        |               | 117  | 70-130    |       |           |       |
| trans-1,3-Dichloropropene   | 24.0   | 1.0 µg/L  | 20.0        |               | 120  | 70-130    |       |           |       |
| Ethylbenzene  | 24.0   | 1.0 µg/L  | 20.0        |               | 120  | 70-130    |       |           |       |
| Methyl tert-butyl ether   | 21.0   | 1.0 µg/L  | 20.0        |               | 105  | 70-130    |       |           |       |
| Methylene chloride  | 22.4   | 3.0 µg/L  | 20.0        |               | 112  | 70-130    |       |           |       |
| Styrene   | 24.5   | 1.0 µg/L  | 20.0        |               | 122  | 70-130    |       |           |       |
| 1,1,1,2-Tetrachloroethane   | 23.3   | 1.0 µg/L  | 20.0        |               | 116  | 70-130    |       |           |       |
| 1,1,2,2-Tetrachloroethane   | 22.7   | 1.0 µg/L  | 20.0        |               | 113  | 70-130    |       |           |       |
| Tetrachloroethene   | 24.9   | 1.0 µg/L  | 20.0        |               | 125  | 70-130    |       |           |       |
| Toluene   | 24.0   | 1.0 µg/L  | 20.0        |               | 120  | 70-130    |       |           |       |
| 1,1,1-Trichloroethane   | 26.2   | 1.0 µg/L  | 20.0        |               | 131  | 70-130    |       |           | SPK   |
| 1,1,2-Trichloroethane   | 23.5   | 1.0 µg/L  | 20.0        |               | 118  | 70-130    |       |           |       |
| Trichloroethene   | 25.1   | 1.0 µg/L  | 20.0        |               | 125  | 70-130    |       |           |       |
| Trichlorofluoromethane  | 30.5   | 1.0 µg/L  | 20.0        |               | 152  | 70-130    |       |           | SPK   |
| Vinyl chloride  | 27.5   | 2.0 µg/L  | 20.0        |               | 138  | 70-130    |       |           | SPK   |
| Xylenes (total)   | 74.8   | 2.0 µg/L  | 60.0        |               | 125  | 70-130    |       |           |       |
| Surrogate: Toluene-d8   | 25.0   | µg/L      | 25.0        |               | 100  | 70-130    |       |           |       |
| Surrogate: 4-Bromofluorobenzene                                   | 28.7   | µg/L      | 25.0        |               | 115  | 70-130    |       |           |       |
| Surrogate: 1,4-Dichlorobenzene-d4                                 | 31.6   | µg/L      | 25.0        |               | 126  | 70-130    |       |           |       |

**QC Qualifiers:**

S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.  
 SPK The recovery of this analyte was outside of established control limits.

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

|                       |   | 6111860-01 | 6111860-02 |
|-----------------------|---|------------|------------|
|                       |   | Water      | Water      |
|                       |   | 2016-11-24 | 2016-11-24 |
|                       |   | 1-Weir     | 2-SW1      |
| Anions                | Chloride (mg/L)                             | 36.7       | 57.4       |
|                       | Fluoride (mg/L)                             | < 0.10     | < 0.10     |
|                       | Nitrate (as N) (mg/L)                       | 0.321      | 0.579      |
|                       | Nitrite (as N) (mg/L)                       | < 0.010    | < 0.010    |
|                       | Sulfate (mg/L)                              | 63.2       | 87.8       |
| General Parameters    | Alkalinity, Total (as CaCO3) (mg/L)         | 49         | 71         |
|                       | Alkalinity, Phenolphthalein (as CaCO3) (mg/ | < 1        | < 1        |
|                       | Alkalinity, Bicarbonate (as CaCO3) (mg/L)   | 49         | 71         |
|                       | 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)                   | 384        | 503        |
|                       | pH (pH units)                               | 7.72       | 7.60       |
|                       | Solids, Total Dissolved (mg/L)              | 231        | 292        |
|                       | Solids, Total Suspended (mg/L)              | 21         | 6          |
|                       | Turbidity (NTU)                             | 48.5       | 12.2       |
| Calculated Parameters | Chromium, Trivalent (mg/L)                  | 0.0053     | 0.0012     |
|                       | Hardness, Total (as CaCO3) (mg/L)           | 126        | 172        |
| Dissolved Metals      | Aluminum, dissolved (mg/L)                  | 0.009      | < 0.005    |
|                       | Antimony, dissolved (mg/L)                  | 0.0002     | 0.0003     |
|                       | Arsenic, dissolved (mg/L)                   | < 0.0005   | < 0.0005   |
|                       | Barium, dissolved (mg/L)                    | 0.007      | 0.013      |
|                       | Beryllium, dissolved (mg/L)                 | < 0.0001   | < 0.0001   |
|                       | Bismuth, dissolved (mg/L)                   | < 0.0001   | < 0.0001   |
|                       | Boron, dissolved (mg/L)                     | 0.024      | 0.028      |
|                       | Cadmium, dissolved (mg/L)                   | < 0.00001  | < 0.00001  |
|                       | Calcium, dissolved (mg/L)                   | 39.0       | 53.3       |
|                       | Chromium, dissolved (mg/L)                  | 0.0007     | 0.0008     |
|                       | Cobalt, dissolved (mg/L)                    | < 0.00005  | 0.00006    |
|                       | Copper, dissolved (mg/L)                    | 0.0006     | 0.0011     |
|                       | Iron, dissolved (mg/L)                      | < 0.010    | < 0.010    |
|                       | Lead, dissolved (mg/L)                      | < 0.0001   | < 0.0001   |
|                       | Lithium, dissolved (mg/L)                   | 0.0001     | 0.0002     |
|                       | Magnesium, dissolved (mg/L)                 | 6.89       | 9.50       |
|                       | Manganese, dissolved (mg/L)                 | 0.0016     | 0.0027     |
|                       | Mercury, dissolved (mg/L)                   | < 0.00002  | < 0.00002  |
|                       | Molybdenum, dissolved (mg/L)                | 0.0006     | 0.0011     |
|                       | Nickel, dissolved (mg/L)                    | 0.0006     | 0.0006     |
|                       | Phosphorus, dissolved (mg/L)                | < 0.02     | < 0.02     |
|                       | Potassium, dissolved (mg/L)                 | 1.15       | 1.40       |
|                       | Selenium, dissolved (mg/L)                  | < 0.0005   | < 0.0005   |
|                       | Silicon, dissolved (mg/L)                   | 2.8        | 4.2        |
|                       | Silver, dissolved (mg/L)                    | < 0.00005  | < 0.00005  |

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

**WORK ORDER REPORTED** 6111860  
2016-12-02

|                  |                             | 6111860-01 | 6111860-02 |
|------------------|-----------------------------|------------|------------|
|                  |                             | Water      | Water      |
|                  |                             | 2016-11-24 | 2016-11-24 |
|                  |                             | 1-Weir     | 2-SW1      |
| Dissolved Metals | Sodium, dissolved (mg/L)    | 22.8       | 26.6       |
|                  | Strontium, dissolved (mg/L) | 0.143      | 0.189      |
|                  | Sulfur, dissolved (mg/L)    | 23         | 31         |
|                  | 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)   | 0.00041    | 0.00067    |
|                  | 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)      | 2.42       | 0.484      |
|                  | Antimony, total (mg/L)      | 0.0003     | 0.0003     |
|                  | Arsenic, total (mg/L)       | 0.0006     | < 0.0005   |
|                  | Barium, total (mg/L)        | 0.021      | 0.016      |
|                  | Beryllium, total (mg/L)     | < 0.0001   | < 0.0001   |
|                  | Bismuth, total (mg/L)       | < 0.0001   | < 0.0001   |
|                  | Boron, total (mg/L)         | 0.030      | 0.032      |
|                  | Cadmium, total (mg/L)       | 0.00001    | < 0.00001  |
|                  | Calcium, total (mg/L)       | 41.5       | 58.8       |
|                  | Chromium, total (mg/L)      | 0.0053     | 0.0012     |
|                  | Cobalt, total (mg/L)        | 0.00120    | 0.00040    |
|                  | Copper, total (mg/L)        | 0.0057     | 0.0024     |
|                  | Iron, total (mg/L)          | 2.57       | 0.53       |
|                  | Lead, total (mg/L)          | 0.0014     | 0.0003     |
|                  | Lithium, total (mg/L)       | 0.0015     | 0.0005     |
|                  | Magnesium, total (mg/L)     | 7.53       | 9.71       |
|                  | Manganese, total (mg/L)     | 0.0407     | 0.0192     |
|                  | Mercury, total (mg/L)       | < 0.00002  | < 0.00002  |
|                  | Molybdenum, total (mg/L)    | 0.0007     | 0.0011     |
|                  | Nickel, total (mg/L)        | 0.0042     | 0.0014     |
|                  | Phosphorus, total (mg/L)    | 0.06       | 0.03       |
|                  | Potassium, total (mg/L)     | 1.41       | 1.42       |
|                  | Selenium, total (mg/L)      | < 0.0005   | < 0.0005   |
|                  | Silicon, total (mg/L)       | 7.3        | 4.8        |
|                  | Silver, total (mg/L)        | < 0.00005  | < 0.00005  |
|                  | Sodium, total (mg/L)        | 22.9       | 27.1       |
|                  | Strontium, total (mg/L)     | 0.148      | 0.198      |
|                  | Sulfur, total (mg/L)        | 23         | 30         |
|                  | 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)      | 0.138      | 0.025      |



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SIRM 460 Stebbings

**WORK ORDER REPORTED** 6111860  
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|  |                                 | 6111860-01 | 6111860-02 |
|--|---------------------------------|------------|------------|
|  |                                 | Water      | Water      |
|  |                                 | 2016-11-24 | 2016-11-24 |
|  |                                 | 1-Weir     | 2-SW1      |
| Total Metals                           | Uranium, total (mg/L)           | 0.00046    | 0.00070    |
|  | Vanadium, total (mg/L)          | 0.007      | 0.002      |
|  | Zinc, total (mg/L)              | 0.009      | < 0.004    |
|  | Zirconium, total (mg/L)         | 0.0007     | 0.0003     |
| BCMOE Aggregate Hydrocarbons           | EPHw10-19 (ug/L)                | < 250      | < 250      |
|  | EPHw19-32 (ug/L)                | < 250      | < 250      |
|  | LEPHw (ug/L)                    | < 250      | < 250      |
|  | HEPHw (ug/L)                    | < 250      | < 250      |
|  | Sur: 2-Methylnonane (%)         | 89         | 83         |
| 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 (%)  | 108        | 109        |
| 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 (%)            | 51         | 50         |
|  | Sur: Naphthalene-d8 (%)         | 87         | 87         |
| Sur: Perylene-d12 (%)                  | 97                              | 101        |            |
| 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** 6111860  
2016-12-02

|                                  |                                  | 6111860-01 | 6111860-02 |
|----------------------------------|----------------------------------|------------|------------|
|                                  |                                  | Water      | Water      |
|                                  |                                  | 2016-11-24 | 2016-11-24 |
|                                  |                                  | 1-Weir     | 2-SW1      |
| 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 (%)              | 102        | 95         |
|                                  | Sur: 4-Bromofluorobenzene (%)    | 111        | 103        |
|                                  | Sur: 1,4-Dichlorobenzene-d4 (%)  | 116        | 105        |

|  |   |  |  |
|--|---|--|--|
| <b>Client Information</b><br>Allterra Construction<br>2158 Millstream Road<br>Victoria BC V9B 6H4<br>Phone: (250) 508-0726 | <b>Project Information</b><br>SIRM 460 Stebbings<br>Number: [none]<br>Sample count: 2<br>TAT: 5 | <b>Laboratory Information</b><br>CARO Analytical Services<br>#110 - 4011 Viking Way<br>Richmond BC V6V 2K9<br>Phone: (604) 279-1499<br>Fax: (604) 279-1599 | <b>COC Information</b><br>Number: 20161124<br>Shipped via: Other |
|--|---|--|--|

|    |   |  |  |
|----|---|--|--|
| #1 | 1-Weir (Template: 01)<br>11/24/2016 08:00<br>Grab / Water | <p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 5<br>Anions in Water by IC, 5 Analytes (KEL) TAT: 5<br>Colour, True - 456 nm (KEL) TAT: 5<br>Conductivity in Water (KEL) TAT: 5<br>Glycols in Water (RMD) TAT: 5<br>L/HEPH in Water (RMD) TAT: 5<br>Mercury, diss CVAFS Reg & Low (RMD) TAT: 5<br>Mercury, total CVAFS Reg & Low (RMD) TAT: 5<br>Metals, dissolved, All, Low (RMD) TAT: 5<br>Metals, total, All, Low (RMD) TAT: 5<br>Comments: Chromium Speciation Required<br>pH in Water (KEL) TAT: 5<br>Solids, Total Dissolved (KEL) TAT: 5<br>Solids, Total Suspended (KEL) TAT: 5<br>Turbidity (KEL) TAT: 5<br>VOC in Water (RMD) TAT: 5 | <p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) (1)<br>C04_40 mL Vial (VOC Water) (2)<br>C05_125 mL Plastic (Metals) (1)<br>C06_40 mL Vial (Mercury) (1)<br>C10_125 mL Plastic (H2SO4) (1)<br>C11_1 L Plastic (General) (1)<br>C19_40 mL Vial (General CG) (2)<br>S05_125 mL Plastic (Metals-F) (1)<br>S06_40 mL Vial (Mercury-F) (1)<br>C09_125 mL Plastic (CN/Cr6) (1) |
| #2 | 2-SW1 (Template: 01)<br>11/24/2016 08:15<br>Grab / Water  | <p style="text-align: center;"><b>Analyses</b></p> Alkalinity, all (KEL) TAT: 5<br>Anions in Water by IC, 5 Analytes (KEL) TAT: 5<br>Colour, True - 456 nm (KEL) TAT: 5<br>Conductivity in Water (KEL) TAT: 5<br>Glycols in Water (RMD) TAT: 5<br>L/HEPH in Water (RMD) TAT: 5<br>Mercury, diss CVAFS Reg & Low (RMD) TAT: 5<br>Mercury, total CVAFS Reg & Low (RMD) TAT: 5<br>Metals, dissolved, All, Low (RMD) TAT: 5<br>Metals, total, All, Low (RMD) TAT: 5<br>Comments: Chromium Speciation Required<br>pH in Water (KEL) TAT: 5<br>Solids, Total Dissolved (KEL) TAT: 5<br>Solids, Total Suspended (KEL) TAT: 5<br>Turbidity (KEL) TAT: 5<br>VOC in Water (RMD) TAT: 5 | <p style="text-align: center;"><b>Containers</b></p> C03_250 mL Glass (EPH/PAH) (1)<br>C04_40 mL Vial (VOC Water) (2)<br>C05_125 mL Plastic (Metals) (1)<br>C06_40 mL Vial (Mercury) (1)<br>C10_125 mL Plastic (H2SO4) (1)<br>C11_1 L Plastic (General) (1)<br>C19_40 mL Vial (General CG) (2)<br>S05_125 mL Plastic (Metals-F) (1)<br>S06_40 mL Vial (Mercury-F) (1)<br>C09_125 mL Plastic (CN/Cr6) (1) |

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| <b>Client Information</b><br>Allterra Construction<br>2158 Millstream Road<br>Victoria BC V9B 6H4<br>Phone: (250) 508-0726 | <b>Project Information</b><br>SIRM 460 Stebbings<br>Number: [none]<br>Sample count: 2<br>TAT: 5 | <b>Laboratory Information</b><br>CARO Analytical Services<br>#110 - 4011 Viking Way<br>Richmond BC V6V 2K9<br>Phone: (604) 279-1499<br>Fax: (604) 279-1599 | <b>COC Information</b><br>Number: 20161124<br>Shipped via: Other |
|--|---|--|--|

|    | Client Information  | Analyses  | Containers  |
|----|---|---|---|
| #1 | 1-Weir (Template: 01)<br>11/24/2016 08:00<br>Grab / Water | Alkalinity, all (KEL) TAT: 5<br>Anions in Water by IC, 5 Analytes (KEL) TAT: 5<br>Colour, True - 456 nm (KEL) TAT: 5<br>Conductivity in Water (KEL) TAT: 5<br>Glycols in Water (RMD) TAT: 5<br>L/HEPH in Water (RMD) TAT: 5<br>Mercury, diss CVAFS Reg & Low (RMD) TAT: 5<br>Mercury, total CVAFS Reg & Low (RMD) TAT: 5<br>Metals, dissolved, All, Low (RMD) TAT: 5<br>Metals, total, All, Low (RMD) TAT: 5<br>Comments: Chromium Speciation Required<br>pH in Water (KEL) TAT: 5<br>Solids, Total Dissolved (KEL) TAT: 5<br>Solids, Total Suspended (KEL) TAT: 5<br>Turbidity (KEL) TAT: 5<br>VOC in Water (RMD) TAT: 5 | C03_250 mL Glass (EPH/PAH) (1)<br>C04_40 mL Vial (VOC Water) (2)<br>C05_125 mL Plastic (Metals) (1)<br>C06_40 mL Vial (Mercury) (1)<br>C10_125 mL Plastic (H2SO4) (1)<br>C11_1 L Plastic (General) (1)<br>C19_40 mL Vial (General CG) (2)<br>S05_125 mL Plastic (Metals-F) (1)<br>S06_40 mL Vial (Mercury-F) (1)<br>C09_125 mL Plastic (CN/Cr6) (1) |
| #2 | 2-SW1 (Template: 01)<br>11/24/2016 08:15<br>Grab / Water  | Alkalinity, all (KEL) TAT: 5<br>Anions in Water by IC, 5 Analytes (KEL) TAT: 5<br>Colour, True - 456 nm (KEL) TAT: 5<br>Conductivity in Water (KEL) TAT: 5<br>Glycols in Water (RMD) TAT: 5<br>L/HEPH in Water (RMD) TAT: 5<br>Mercury, diss CVAFS Reg & Low (RMD) TAT: 5<br>Mercury, total CVAFS Reg & Low (RMD) TAT: 5<br>Metals, dissolved, All, Low (RMD) TAT: 5<br>Metals, total, All, Low (RMD) TAT: 5<br>Comments: Chromium Speciation Required<br>pH in Water (KEL) TAT: 5<br>Solids, Total Dissolved (KEL) TAT: 5<br>Solids, Total Suspended (KEL) TAT: 5<br>Turbidity (KEL) TAT: 5<br>VOC in Water (RMD) TAT: 5 | C03_250 mL Glass (EPH/PAH) (1)<br>C04_40 mL Vial (VOC Water) (2)<br>C05_125 mL Plastic (Metals) (1)<br>C06_40 mL Vial (Mercury) (1)<br>C10_125 mL Plastic (H2SO4) (1)<br>C11_1 L Plastic (General) (1)<br>C19_40 mL Vial (General CG) (2)<br>S05_125 mL Plastic (Metals-F) (1)<br>S06_40 mL Vial (Mercury-F) (1)<br>C09_125 mL Plastic (CN/Cr6) (1) |



| Time | Accepted by | Date/Time |
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|      | NOVEX TC    | 11/25     |
|      | 10.98       | 12:00     |