

## CERTIFICATE OF ANALYSIS

**Work Order** : **CG2104383**  
**Client** : **Lotic Environmental Ltd.**  
**Contact** : Mike Robinson  
**Address** : 2193 Mazur Road  
                   Cranbrook BC Canada V1C 6V9  
**Telephone** : 250 426 0528  
**Project** : 21NORT02  
**PO** : 15708  
**C-O-C number** : ----  
**Sampler** : Mia Otto  
**Site** : 18CANA02  
**Quote number** : CG20-NOCL100-0001  
**No. of samples received** : 5  
**No. of samples analysed** : 5

**Page** : 1 of 10  
**Laboratory** : Calgary - Environmental  
**Account Manager** : Patryk Wojciak  
**Address** : 2559 29th Street NE  
                   Calgary AB Canada T1Y 7B5  
**Telephone** : +1 403 407 1800  
**Date Samples Received** : 24-Sep-2021 08:55  
**Date Analysis Commenced** : 24-Sep-2021  
**Issue Date** : 15-Oct-2021 09:17

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>          | <i>Laboratory Department</i> |
|--------------------|--------------------------|------------------------------|
| Anthony Calero     | Team Leader - Inorganics | Inorganics, Calgary, Alberta |
| Claudia Droog      |                          | Inorganics, Calgary, Alberta |
| Daniel Ching       | Lab Analyst              | Metals, Calgary, Alberta     |
| Dwayne Bennett     | Supervisor - Inorganic   | Inorganics, Calgary, Alberta |
| Elke Tabora        |                          | Inorganics, Calgary, Alberta |
| Erin Sanchez       |                          | Inorganics, Calgary, Alberta |
| Maria Tuguinay     | Lab Assistant            | Inorganics, Calgary, Alberta |
| Olivia Gu          | Lab Analyst              | Metals, Calgary, Alberta     |
| Parker Sgarbossa   | Laboratory Analyst       | Inorganics, Calgary, Alberta |
| Ruifang Zheng      | Analyst                  | Inorganics, Calgary, Alberta |
| Sara Niroomand     |                          | Inorganics, Calgary, Alberta |
| Shirley Li         |                          | Metals, Calgary, Alberta     |
| Victoria Piguing   | Laboratory Analyst       | Organics, Calgary, Alberta   |
| Vladka Stamenova   | Analyst                  | Inorganics, Calgary, Alberta |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | No Unit                         |
| µg/L     | micrograms per litre            |
| µS/cm    | Microsiemens per centimetre     |
| CU       | colour units (1 CU = 1 mg/L Pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                  |
|-----------|----------------------------------------------|
| RRV       | Reported result verified by repeat analysis. |



## Analytical Results

| Sub-Matrix: Water                                   |            |            |        |          | Client sample ID     | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE             | FIELD BLANK |
|-----------------------------------------------------|------------|------------|--------|----------|----------------------|----------------------|----------------------|----------------------|-----------------------|-------------|
| (Matrix: Water)                                     |            |            |        |          |                      |                      |                      |                      |                       |             |
| Client sampling date / time                         |            |            |        |          | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00  |             |
| Analyte                                             | CAS Number | Method     | LOR    | Unit     | CG2104383-001        | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005         |             |
|                                                     |            |            |        |          | Result               | Result               | Result               | Result               | Result                |             |
| <b>Physical Tests</b>                               |            |            |        |          |                      |                      |                      |                      |                       |             |
| colour, true                                        | ----       | E329       | 5.0    | CU       | <5.0                 | <5.0                 | <5.0                 | <5.0                 | <5.0                  |             |
| conductivity                                        | ----       | E100       | 2.0    | µS/cm    | 456                  | 688                  | 253                  | 253                  | <2.0                  |             |
| hardness (as CaCO <sub>3</sub> ), dissolved         | ----       | EC100      | 0.60   | mg/L     | 246                  | 380                  | 134                  | 136                  | <0.60                 |             |
| hardness (as CaCO <sub>3</sub> ), from total Ca/Mg  | ----       | EC100A     | 0.60   | mg/L     | 259                  | 405                  | 149                  | 146                  | <0.60                 |             |
| pH                                                  | ----       | E108       | 0.10   | pH units | 8.28                 | 8.30                 | 8.27                 | 8.24                 | 4.62                  |             |
| solids, total dissolved [TDS]                       | ----       | E162       | 10     | mg/L     | 306                  | 463                  | 151                  | 153                  | <10                   |             |
| solids, total suspended [TSS]                       | ----       | E160-H     | 3.0    | mg/L     | <3.0                 | 4.2                  | <3.0                 | <3.0                 | <3.0                  |             |
| turbidity                                           | ----       | E121       | 0.10   | NTU      | 0.38                 | 0.36                 | 0.14                 | 0.12                 | <0.10                 |             |
| alkalinity, total (as CaCO <sub>3</sub> )           | ----       | E290       | 2.0    | mg/L     | 160                  | 187                  | 121                  | 118                  | <2.0                  |             |
| alkalinity, phenolphthalein (as CaCO <sub>3</sub> ) | ----       | E290       | 2.0    | mg/L     | <2.0                 | <2.0                 | <2.0                 | <2.0                 | <2.0                  |             |
| alkalinity, hydroxide (as CaCO <sub>3</sub> )       | ----       | E290       | 2.0    | mg/L     | <2.0                 | <2.0                 | <2.0                 | <2.0                 | <2.0                  |             |
| alkalinity, carbonate (as CaCO <sub>3</sub> )       | ----       | E290       | 2.0    | mg/L     | <2.0                 | <2.0                 | <2.0                 | <2.0                 | <2.0                  |             |
| alkalinity, bicarbonate (as CaCO <sub>3</sub> )     | ----       | E290       | 2.0    | mg/L     | 160                  | 187                  | 121                  | 118                  | <2.0                  |             |
| alkalinity, bicarbonate (as HCO <sub>3</sub> )      | 71-52-3    | E290       | 2.0    | mg/L     | 196                  | 228                  | 147                  | 144                  | <2.0                  |             |
| alkalinity, carbonate (as CO <sub>3</sub> )         | 3812-32-6  | E290       | 2.0    | mg/L     | <2.0                 | <2.0                 | <2.0                 | <2.0                 | <2.0                  |             |
| alkalinity, hydroxide (as OH)                       | 14280-30-9 | E290       | 2.0    | mg/L     | <2.0                 | <2.0                 | <2.0                 | <2.0                 | <2.0                  |             |
| <b>Anions and Nutrients</b>                         |            |            |        |          |                      |                      |                      |                      |                       |             |
| ammonia, total (as N)                               | 7664-41-7  | E298       | 0.0050 | mg/L     | 0.0111               | 0.0103               | <0.0050              | <0.0050              | 0.0058 <sup>RRV</sup> |             |
| bromide                                             | 24959-67-9 | E235.Br-L  | 0.050  | mg/L     | <0.050               | <0.050               | <0.050               | <0.050               | <0.050                |             |
| chloride                                            | 16887-00-6 | E235.Cl    | 0.50   | mg/L     | 1.16                 | 1.03                 | <0.50                | <0.50                | <0.50                 |             |
| fluoride                                            | 16984-48-8 | E235.F     | 0.020  | mg/L     | 0.134                | 0.200                | 0.326                | 0.329                | <0.020                |             |
| Kjeldahl nitrogen, total [TKN]                      | ----       | E318       | 0.050  | mg/L     | 0.059                | 0.144                | <0.050               | <0.050               | <0.050                |             |
| nitrate (as N)                                      | 14797-55-8 | E235.NO3-L | 0.0050 | mg/L     | 0.318                | 0.980                | 0.102                | 0.116                | <0.0050               |             |
| nitrite (as N)                                      | 14797-65-0 | E235.NO2-L | 0.0010 | mg/L     | <0.0010              | 0.0016               | <0.0010              | <0.0010              | <0.0010               |             |
| phosphate, ortho-, dissolved (as P)                 | 14265-44-2 | E378-U     | 0.0010 | mg/L     | 0.0012               | <0.0010              | <0.0010              | <0.0010              | <0.0010               |             |
| phosphorus, total                                   | 7723-14-0  | E372-U     | 0.0020 | mg/L     | 0.0063               | 0.0041               | <0.0020              | <0.0020              | <0.0020               |             |
| sulfate (as SO <sub>4</sub> )                       | 14808-79-8 | E235.SO4   | 0.30   | mg/L     | 92.8                 | 202                  | 20.1                 | 20.1                 | <0.30                 |             |
| <b>Organic / Inorganic Carbon</b>                   |            |            |        |          |                      |                      |                      |                      |                       |             |
| carbon, dissolved organic [DOC]                     | ----       | E358-L     | 0.50   | mg/L     | 1.35                 | 1.08                 | 0.83                 | 0.85                 | <0.50                 |             |
| carbon, total organic [TOC]                         | ----       | E355-L     | 0.50   | mg/L     | 1.31                 | 1.11                 | 0.84                 | 0.76                 | <0.50                 |             |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water) |            |        |           |      | Client sample ID | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
|--------------------------------------|------------|--------|-----------|------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client sampling date / time          |            |        |           |      |                  | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                              | CAS Number | Method | LOR       | Unit | CG2104383-001    | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                      |            |        |           |      | Result           | Result               | Result               | Result               | Result               |                      |
| <b>Total Metals</b>                  |            |        |           |      |                  |                      |                      |                      |                      |                      |
| aluminum, total                      | 7429-90-5  | E420   | 0.0030    | mg/L | 0.0062           | 0.0067               | 0.0046               | 0.0044               | <0.0030              |                      |
| antimony, total                      | 7440-36-0  | E420   | 0.00010   | mg/L | 0.00010          | 0.00013              | 0.00011              | <0.00010             | <0.00010             |                      |
| arsenic, total                       | 7440-38-2  | E420   | 0.00010   | mg/L | 0.00027          | 0.00035              | 0.00057              | 0.00058              | <0.00010             |                      |
| barium, total                        | 7440-39-3  | E420   | 0.00010   | mg/L | 0.153            | 0.0710               | 0.0171               | 0.0174               | <0.00010             |                      |
| beryllium, total                     | 7440-41-7  | E420   | 0.000020  | mg/L | <0.000020        | <0.000020            | 0.000039             | <0.000020            | <0.000020            |                      |
| bismuth, total                       | 7440-69-9  | E420   | 0.000050  | mg/L | <0.000050        | <0.000050            | <0.000050            | <0.000050            | <0.000050            |                      |
| boron, total                         | 7440-42-8  | E420   | 0.010     | mg/L | 0.014            | 0.022                | <0.010               | <0.010               | <0.010               |                      |
| cadmium, total                       | 7440-43-9  | E420   | 0.0000050 | mg/L | 0.0000256        | 0.0000228            | 0.0000112            | 0.0000125            | <0.0000050           |                      |
| calcium, total                       | 7440-70-2  | E420   | 0.050     | mg/L | 66.6             | 96.6                 | 44.5                 | 42.9                 | <0.050               |                      |
| chromium, total                      | 7440-47-3  | E420   | 0.00050   | mg/L | <0.00050         | <0.00050             | <0.00050             | <0.00050             | <0.00050             |                      |
| cobalt, total                        | 7440-48-4  | E420   | 0.00010   | mg/L | <0.00010         | <0.00010             | <0.00010             | <0.00010             | <0.00010             |                      |
| copper, total                        | 7440-50-8  | E420   | 0.00050   | mg/L | <0.00050         | <0.00050             | <0.00050             | <0.00050             | <0.00050             |                      |
| iron, total                          | 7439-89-6  | E420   | 0.010     | mg/L | 0.012            | 0.011                | <0.010               | <0.010               | <0.010               |                      |
| lead, total                          | 7439-92-1  | E420   | 0.000050  | mg/L | <0.000050        | <0.000050            | <0.000050            | <0.000050            | <0.000050            |                      |
| lithium, total                       | 7439-93-2  | E420   | 0.0010    | mg/L | 0.0069           | 0.0108               | 0.0014               | 0.0015               | <0.0010              |                      |
| magnesium, total                     | 7439-95-4  | E420   | 0.100     | mg/L | 22.5             | 39.7                 | 9.31                 | 9.58                 | <0.100               |                      |
| manganese, total                     | 7439-96-5  | E420   | 0.00010   | mg/L | 0.00110          | 0.00196              | <0.00010             | 0.00011              | <0.00010             |                      |
| mercury, total                       | 7439-97-6  | E508   | 0.0000050 | mg/L | <0.0000050       | <0.0000050           | <0.0000050           | <0.0000050           | <0.0000050           |                      |
| molybdenum, total                    | 7439-98-7  | E420   | 0.000050  | mg/L | 0.000753         | 0.000839             | 0.000811             | 0.000796             | <0.000050            |                      |
| nickel, total                        | 7440-02-0  | E420   | 0.00050   | mg/L | 0.00102          | 0.00416              | <0.00050             | <0.00050             | <0.00050             |                      |
| phosphorus, total                    | 7723-14-0  | E420   | 0.050     | mg/L | <0.050           | <0.050               | <0.050               | <0.050               | <0.050               |                      |
| potassium, total                     | 7440-09-7  | E420   | 0.100     | mg/L | 0.743            | 0.992                | 0.199                | 0.205                | <0.100               |                      |
| selenium, total                      | 7782-49-2  | E420   | 0.000050  | mg/L | 0.00235          | 0.00609              | 0.00206              | 0.00206              | <0.000050            |                      |
| silicon, total                       | 7440-21-3  | E420   | 0.10      | mg/L | 2.30             | 1.91                 | 1.34                 | 1.36                 | <0.10                |                      |
| silver, total                        | 7440-22-4  | E420   | 0.000010  | mg/L | <0.000010        | <0.000010            | <0.000010            | <0.000010            | <0.000010            |                      |
| sodium, total                        | 17341-25-2 | E420   | 0.050     | mg/L | 5.18             | 8.92                 | 0.464                | 0.477                | <0.050               |                      |
| strontium, total                     | 7440-24-6  | E420   | 0.00020   | mg/L | 0.202            | 0.320                | 0.134                | 0.134                | <0.00020             |                      |
| sulfur, total                        | 7704-34-9  | E420   | 0.50      | mg/L | 34.6             | 78.0                 | 7.25                 | 7.43                 | <0.50                |                      |
| thallium, total                      | 7440-28-0  | E420   | 0.000010  | mg/L | <0.000010        | 0.000021             | 0.000059             | 0.000057             | <0.000010            |                      |
| tin, total                           | 7440-31-5  | E420   | 0.00010   | mg/L | <0.00010         | <0.00010             | <0.00010             | <0.00010             | <0.00010             |                      |
| titanium, total                      | 7440-32-6  | E420   | 0.00030   | mg/L | <0.00030         | <0.00030             | <0.00030             | <0.00030             | <0.00030             |                      |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water) |            |        |           |      | Client sample ID | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
|--------------------------------------|------------|--------|-----------|------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client sampling date / time          |            |        |           |      |                  | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                              | CAS Number | Method | LOR       | Unit | CG2104383-001    | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                      |            |        |           |      | Result           | Result               | Result               | Result               | Result               |                      |
| <b>Total Metals</b>                  |            |        |           |      |                  |                      |                      |                      |                      |                      |
| uranium, total                       | 7440-61-1  | E420   | 0.000010  | mg/L | 0.000875         | 0.00200              | 0.000946             | 0.000939             | <0.000010            |                      |
| vanadium, total                      | 7440-62-2  | E420   | 0.00050   | mg/L | <0.00050         | <0.00050             | <0.00050             | <0.00050             | <0.00050             |                      |
| zinc, total                          | 7440-66-6  | E420   | 0.0030    | mg/L | <0.0030          | <0.0030              | <0.0030              | <0.0030              | <0.0030              |                      |
| zirconium, total                     | 7440-67-7  | E420   | 0.00020   | mg/L | <0.00020         | <0.00020             | <0.00020             | <0.00020             | <0.00020             |                      |
| <b>Dissolved Metals</b>              |            |        |           |      |                  |                      |                      |                      |                      |                      |
| aluminum, dissolved                  | 7429-90-5  | E421   | 0.0010    | mg/L | 0.0016           | 0.0011               | 0.0022               | 0.0021               | <0.0010              |                      |
| antimony, dissolved                  | 7440-36-0  | E421   | 0.00010   | mg/L | 0.00010          | 0.00012              | <0.00010             | <0.00010             | <0.00010             |                      |
| arsenic, dissolved                   | 7440-38-2  | E421   | 0.00010   | mg/L | 0.00022          | 0.00025              | 0.00054              | 0.00055              | <0.00010             |                      |
| barium, dissolved                    | 7440-39-3  | E421   | 0.00010   | mg/L | 0.152            | 0.0721               | 0.0174               | 0.0175               | <0.00010             |                      |
| beryllium, dissolved                 | 7440-41-7  | E421   | 0.000020  | mg/L | <0.000020        | <0.000020            | <0.000020            | <0.000020            | <0.000020            |                      |
| bismuth, dissolved                   | 7440-69-9  | E421   | 0.000050  | mg/L | <0.000050        | <0.000050            | <0.000050            | <0.000050            | <0.000050            |                      |
| boron, dissolved                     | 7440-42-8  | E421   | 0.010     | mg/L | 0.012            | 0.020                | <0.010               | <0.010               | <0.010               |                      |
| cadmium, dissolved                   | 7440-43-9  | E421   | 0.0000050 | mg/L | 0.0000290        | 0.0000187            | 0.0000124            | 0.0000135            | <0.0000050           |                      |
| calcium, dissolved                   | 7440-70-2  | E421   | 0.050     | mg/L | 62.4             | 89.0                 | 39.1                 | 39.3                 | <0.050               |                      |
| chromium, dissolved                  | 7440-47-3  | E421   | 0.00050   | mg/L | <0.00050         | <0.00050             | <0.00050             | <0.00050             | <0.00050             |                      |
| cobalt, dissolved                    | 7440-48-4  | E421   | 0.00010   | mg/L | <0.00010         | <0.00010             | <0.00010             | <0.00010             | <0.00010             |                      |
| copper, dissolved                    | 7440-50-8  | E421   | 0.00020   | mg/L | <0.00020         | <0.00020             | <0.00020             | <0.00020             | <0.00020             |                      |
| iron, dissolved                      | 7439-89-6  | E421   | 0.010     | mg/L | <0.010           | <0.010               | <0.010               | <0.010               | <0.010               |                      |
| lead, dissolved                      | 7439-92-1  | E421   | 0.000050  | mg/L | <0.000050        | <0.000050            | <0.000050            | <0.000050            | <0.000050            |                      |
| lithium, dissolved                   | 7439-93-2  | E421   | 0.0010    | mg/L | 0.0074           | 0.0122               | 0.0015               | 0.0016               | <0.0010              |                      |
| magnesium, dissolved                 | 7439-95-4  | E421   | 0.100     | mg/L | 22.0             | 38.4                 | 8.88                 | 9.19                 | <0.100               |                      |
| manganese, dissolved                 | 7439-96-5  | E421   | 0.00010   | mg/L | 0.00054          | 0.00151              | <0.00010             | <0.00010             | <0.00010             |                      |
| mercury, dissolved                   | 7439-97-6  | E509   | 0.0000050 | mg/L | <0.0000050       | <0.0000050           | <0.0000050           | <0.0000050           | <0.0000050           |                      |
| molybdenum, dissolved                | 7439-98-7  | E421   | 0.000050  | mg/L | 0.000743         | 0.000816             | 0.000795             | 0.000803             | <0.000050            |                      |
| nickel, dissolved                    | 7440-02-0  | E421   | 0.00050   | mg/L | 0.00083          | 0.00392              | <0.00050             | <0.00050             | <0.00050             |                      |
| phosphorus, dissolved                | 7723-14-0  | E421   | 0.050     | mg/L | <0.050           | <0.050               | <0.050               | <0.050               | <0.050               |                      |
| potassium, dissolved                 | 7440-09-7  | E421   | 0.100     | mg/L | 0.769            | 1.01                 | 0.204                | 0.205                | <0.100               |                      |
| selenium, dissolved                  | 7782-49-2  | E421   | 0.000050  | mg/L | 0.00247          | 0.00660              | 0.00223              | 0.00224              | <0.000050            |                      |
| silicon, dissolved                   | 7440-21-3  | E421   | 0.050     | mg/L | 2.15             | 1.74                 | 1.27                 | 1.25                 | <0.050               |                      |
| silver, dissolved                    | 7440-22-4  | E421   | 0.000010  | mg/L | <0.000010        | <0.000010            | <0.000010            | <0.000010            | <0.000010            |                      |
| sodium, dissolved                    | 17341-25-2 | E421   | 0.050     | mg/L | 5.31             | 8.92                 | 0.478                | 0.483                | <0.050               |                      |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)  |            |        |          |      | Client sample ID | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
|---------------------------------------|------------|--------|----------|------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client sampling date / time           |            |        |          |      |                  | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                               | CAS Number | Method | LOR      | Unit | CG2104383-001    | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                       |            |        |          |      | Result           | Result               | Result               | Result               | Result               |                      |
| <b>Dissolved Metals</b>               |            |        |          |      |                  |                      |                      |                      |                      |                      |
| strontium, dissolved                  | 7440-24-6  | E421   | 0.00020  | mg/L | 0.202            | 0.308                | 0.128                | 0.132                | <0.00020             |                      |
| sulfur, dissolved                     | 7704-34-9  | E421   | 0.50     | mg/L | 34.5             | 77.3                 | 7.99                 | 7.74                 | <0.50                |                      |
| thallium, dissolved                   | 7440-28-0  | E421   | 0.000010 | mg/L | <0.000010        | 0.000017             | 0.000051             | 0.000051             | <0.000010            |                      |
| tin, dissolved                        | 7440-31-5  | E421   | 0.00010  | mg/L | <0.00010         | <0.00010             | <0.00010             | <0.00010             | <0.00010             |                      |
| titanium, dissolved                   | 7440-32-6  | E421   | 0.00030  | mg/L | <0.00030         | <0.00030             | <0.00030             | <0.00030             | <0.00030             |                      |
| uranium, dissolved                    | 7440-61-1  | E421   | 0.000010 | mg/L | 0.000822         | 0.00185              | 0.000892             | 0.000902             | <0.000010            |                      |
| vanadium, dissolved                   | 7440-62-2  | E421   | 0.00050  | mg/L | <0.00050         | <0.00050             | <0.00050             | <0.00050             | <0.00050             |                      |
| zinc, dissolved                       | 7440-66-6  | E421   | 0.0010   | mg/L | 0.0014           | 0.0014               | 0.0021               | 0.0024               | <0.0010              |                      |
| zirconium, dissolved                  | 7440-67-7  | E421   | 0.00020  | mg/L | <0.00020         | <0.00020             | <0.00020             | <0.00020             | <0.00020             |                      |
| dissolved mercury filtration location | ----       | EP509  | -        | -    | Field            | Field                | Field                | Field                | Field                |                      |
| dissolved metals filtration location  | ----       | EP421  | -        | -    | Field            | Field                | Field                | Field                | Field                |                      |
| <b>Aggregate Organics</b>             |            |        |          |      |                  |                      |                      |                      |                      |                      |
| chemical oxygen demand [COD]          | ----       | E559-L | 10       | mg/L | <10              | <10                  | <10                  | <10                  | <10                  |                      |
| <b>Volatile Organic Compounds</b>     |            |        |          |      |                  |                      |                      |                      |                      |                      |
| acetone                               | 67-64-1    | E611F  | 20       | µg/L | <20              | <20                  | <20                  | <20                  | <20                  |                      |
| bromobenzene                          | 108-86-1   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| bromochloromethane                    | 74-97-5    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| bromomethane                          | 74-83-9    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| butylbenzene, n-                      | 104-51-8   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| butylbenzene, sec-                    | 135-98-8   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| butylbenzene, tert-                   | 98-06-6    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| carbon disulfide                      | 75-15-0    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| chlorobenzene                         | 108-90-7   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| chloromethane                         | 74-87-3    | E611F  | 2.0      | µg/L | <2.0             | <2.0                 | <2.0                 | <2.0                 | <2.0                 |                      |
| chlorotoluene, 2-                     | 95-49-8    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| chlorotoluene, 4-                     | 106-43-4   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| cymene, p-                            | 99-87-6    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| dibromo-3-chloropropane, 1,2-         | 96-12-8    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| dibromomethane                        | 74-95-3    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| dichlorobenzene, 1,2-                 | 95-50-1    | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |
| dichlorobenzene, 1,3-                 | 541-73-1   | E611F  | 0.50     | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                |                      |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)            |            |        |      |      | Client sample ID | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
|-------------------------------------------------|------------|--------|------|------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client sampling date / time                     |            |        |      |      |                  | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                                         | CAS Number | Method | LOR  | Unit | CG2104383-001    | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                                 |            |        |      |      | Result           | Result               | Result               | Result               | Result               |                      |
| <b>Volatile Organic Compounds</b>               |            |        |      |      |                  |                      |                      |                      |                      |                      |
| dichlorobenzene, 1,4-                           | 106-46-7   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichlorodifluoromethane                         | 75-71-8    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloropropane, 1,2-                           | 78-87-5    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloropropane, 1,3-                           | 142-28-9   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloropropane, 2,2-                           | 594-20-7   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloropropylene, 1,1-                         | 563-58-6   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloropropylene, cis+trans-1,3-               | 542-75-6   | E611F  | 0.75 | µg/L | <0.75            | <0.75                | <0.75                | <0.75                | <0.75                | <0.75                |
| dichloropropylene, cis-1,3-                     | 10061-01-5 | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| hexachlorobutadiene                             | 87-68-3    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| hexanone, 2-                                    | 591-78-6   | E611F  | 20   | µg/L | <20              | <20                  | <20                  | <20                  | <20                  | <20                  |
| methyl ethyl ketone [MEK]                       | 78-93-3    | E611F  | 20   | µg/L | <20              | <20                  | <20                  | <20                  | <20                  | <20                  |
| methyl isobutyl ketone [MIBK]                   | 108-10-1   | E611F  | 20   | µg/L | <20              | <20                  | <20                  | <20                  | <20                  | <20                  |
| propylbenzene, n-                               | 103-65-1   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| tetrachloroethane, 1,1,1,2-                     | 630-20-6   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| tetrachloroethane, 1,1,2,2-                     | 79-34-5    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichlorobenzene, 1,2,3-                        | 87-61-6    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichlorobenzene, 1,2,4-                        | 120-82-1   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichloroethane, 1,1,2-                         | 79-00-5    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichlorofluoromethane                          | 75-69-4    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichloropropane, 1,2,3-                        | 96-18-4    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| <b>Volatile Organic Compounds [Drycleaning]</b> |            |        |      |      |                  |                      |                      |                      |                      |                      |
| carbon tetrachloride                            | 56-23-5    | E611F  | 0.20 | µg/L | <0.20            | <0.20                | <0.20                | <0.20                | <0.20                | <0.20                |
| chloroethane                                    | 75-00-3    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloroethane, 1,1-                            | 75-34-3    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloroethane, 1,2-                            | 107-06-2   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloroethylene, 1,1-                          | 75-35-4    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloroethylene, cis-1,2-                      | 156-59-2   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloroethylene, trans-1,2-                    | 156-60-5   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dichloromethane                                 | 75-09-2    | E611F  | 1.0  | µg/L | <1.0             | <1.0                 | <1.0                 | <1.0                 | <1.0                 | <1.0                 |
| dichloropropylene, trans-1,3-                   | 10061-02-6 | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| tetrachloroethylene                             | 127-18-4   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)            |             |        |      |      | Client sample ID | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
|-------------------------------------------------|-------------|--------|------|------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client sampling date / time                     |             |        |      |      |                  | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                                         | CAS Number  | Method | LOR  | Unit | CG2104383-001    | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                                 |             |        |      |      | Result           | Result               | Result               | Result               | Result               |                      |
| <b>Volatile Organic Compounds [Drycleaning]</b> |             |        |      |      |                  |                      |                      |                      |                      |                      |
| trichloroethane, 1,1,1-                         | 71-55-6     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trichloroethylene                               | 79-01-6     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| vinyl chloride                                  | 75-01-4     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| <b>Volatile Organic Compounds [Fuels]</b>       |             |        |      |      |                  |                      |                      |                      |                      |                      |
| benzene                                         | 71-43-2     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dibromoethane, 1,2-                             | 106-93-4    | E611F  | 0.20 | µg/L | <0.20            | <0.20                | <0.20                | <0.20                | <0.20                | <0.20                |
| ethylbenzene                                    | 100-41-4    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| hexane, n-                                      | 110-54-3    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| isopropylbenzene                                | 98-82-8     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| methyl-tert-butyl ether [MTBE]                  | 1634-04-4   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| naphthalene                                     | 91-20-3     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| styrene                                         | 100-42-5    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| toluene                                         | 108-88-3    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trimethylbenzene, 1,2,4-                        | 95-63-6     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| trimethylbenzene, 1,3,5-                        | 108-67-8    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| xylene, m+p-                                    | 179601-23-1 | E611F  | 0.40 | µg/L | <0.40            | <0.40                | <0.40                | <0.40                | <0.40                | <0.40                |
| xylene, o-                                      | 95-47-6     | E611F  | 0.30 | µg/L | <0.30            | <0.30                | <0.30                | <0.30                | <0.30                | <0.30                |
| xylenes, total                                  | 1330-20-7   | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| <b>Volatile Organic Compounds [THMs]</b>        |             |        |      |      |                  |                      |                      |                      |                      |                      |
| bromodichloromethane                            | 75-27-4     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| bromoform                                       | 75-25-2     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| chloroform                                      | 67-66-3     | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| dibromochloromethane                            | 124-48-1    | E611F  | 0.50 | µg/L | <0.50            | <0.50                | <0.50                | <0.50                | <0.50                | <0.50                |
| <b>Volatile Organic Compounds Surrogates</b>    |             |        |      |      |                  |                      |                      |                      |                      |                      |
| bromofluorobenzene, 4-                          | 460-00-4    | E611F  | 1.0  | %    | 87.9             | 88.6                 | 86.6                 | 88.1                 | 87.1                 |                      |
| difluorobenzene, 1,4-                           | 540-36-3    | E611F  | 1.0  | %    | 92.2             | 91.5                 | 91.2                 | 91.9                 | 92.5                 |                      |
| <b>Hydrocarbons</b>                             |             |        |      |      |                  |                      |                      |                      |                      |                      |
| EPH (C10-C19)                                   | ----        | E601A  | 250  | µg/L | <250             | <250                 | <250                 | <250                 | <250                 | <250                 |
| EPH (C10-C32)                                   | ----        | E601A  | 400  | µg/L | <400             | <400                 | <400                 | <400                 | <400                 | <400                 |
| EPH (C19-C32)                                   | ----        | E601A  | 250  | µg/L | <250             | <250                 | <250                 | <250                 | <250                 | <250                 |
| TEH (C10-C30), BC                               | ----        | E601A  | 250  | µg/L | <250             | <250                 | <250                 | <250                 | <250                 | <250                 |



Analytical Results

|                                      |            |        |     |      |                             |                      |                      |                      |                      |                      |
|--------------------------------------|------------|--------|-----|------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Sub-Matrix: Water                    |            |        |     |      | Client sample ID            | MICH-13.0            | MICH-33.8            | AND1                 | DUPLICATE            | FIELD BLANK          |
| (Matrix: Water)                      |            |        |     |      |                             |                      |                      |                      |                      |                      |
|                                      |            |        |     |      | Client sampling date / time | 23-Sep-2021<br>07:45 | 23-Sep-2021<br>10:45 | 23-Sep-2021<br>13:30 | 23-Sep-2021<br>17:00 | 23-Sep-2021<br>08:00 |
| Analyte                              | CAS Number | Method | LOR | Unit | CG2104383-001               | CG2104383-002        | CG2104383-003        | CG2104383-004        | CG2104383-005        |                      |
|                                      |            |        |     |      | Result                      | Result               | Result               | Result               | Result               | Result               |
| Hydrocarbons Surrogates              |            |        |     |      |                             |                      |                      |                      |                      |                      |
| bromobenzotrifluoride, 2- (EPH surr) | 392-83-6   | E601A  | 1.0 | %    | 86.3                        | 85.6                 | 83.7                 | 85.6                 | 84.8                 |                      |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## QUALITY CONTROL REPORT

**Work Order** : **CG2104383**

**Page** : 1 of 25

**Client** : Lotic Environmental Ltd.  
**Contact** : Mike Robinson  
**Address** : 652 F Sparwood Drive  
                   Sparwood BC Canada V0B 2G0  
**Telephone** : 250 426 0528  
**Project** : 21NORT02  
**PO** : 15708  
**C-O-C number** : ----  
**Sampler** : Mia Otto  
**Site** : 18CANA02  
**Quote number** : CG20-NOCL100-0001  
**No. of samples received** : 5  
**No. of samples analysed** : 5

**Laboratory** : Calgary - Environmental  
**Account Manager** : Patryk Wojciak  
**Address** : 2559 29th Street NE  
                   Calgary, Alberta Canada T1Y 7B5  
**Telephone** : +1 403 407 1800  
**Date Samples Received** : 24-Sep-2021 08:55  
**Date Analysis Commenced** : 24-Sep-2021  
**Issue Date** : 15-Oct-2021 09:17

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>          | <i>Laboratory Department</i> |
|--------------------|--------------------------|------------------------------|
| Anthony Calero     | Team Leader - Inorganics | Inorganics, Calgary, Alberta |
| Claudia Droog      |                          | Inorganics, Calgary, Alberta |
| Daniel Ching       | Lab Analyst              | Metals, Calgary, Alberta     |
| Dwayne Bennett     | Supervisor - Inorganic   | Inorganics, Calgary, Alberta |
| Elke Tabora        |                          | Inorganics, Calgary, Alberta |
| Erin Sanchez       |                          | Inorganics, Calgary, Alberta |
| Maria Tuguinay     | Lab Assistant            | Inorganics, Calgary, Alberta |
| Olivia Gu          | Lab Analyst              | Metals, Calgary, Alberta     |
| Parker Sgarbossa   | Laboratory Analyst       | Inorganics, Calgary, Alberta |
| Ruifang Zheng      | Analyst                  | Inorganics, Calgary, Alberta |
| Sara Niroomand     |                          | Inorganics, Calgary, Alberta |
| Shirley Li         |                          | Metals, Calgary, Alberta     |
| Victoria Piguing   | Laboratory Analyst       | Organics, Calgary, Alberta   |
| Vladka Stamenova   | Analyst                  | Inorganics, Calgary, Alberta |



## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percentage Difference

# = Indicates a QC result that did not meet the ALS DQO.



## Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

| Sub-Matrix: Water                     |                  |                                        |            |           | Laboratory Duplicate (DUP) Report |          |                 |                  |                      |                  |           |
|---------------------------------------|------------------|----------------------------------------|------------|-----------|-----------------------------------|----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte                                | CAS Number | Method    | LOR                               | Unit     | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Physical Tests (QC Lot: 302488)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104367-001                         | Anonymous        | colour, true                           | ----       | E329      | 5.0                               | CU       | <5.0            | <5.0             | 0                    | Diff <2x LOR     | ----      |
| Physical Tests (QC Lot: 303018)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104383-001                         | MICH-13.0        | turbidity                              | ----       | E121      | 0.10                              | NTU      | 0.38            | 0.39             | 0.007                | Diff <2x LOR     | ----      |
| Physical Tests (QC Lot: 303091)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104383-003                         | AND1             | turbidity                              | ----       | E121      | 0.10                              | NTU      | 0.14            | 0.14             | 0.008                | Diff <2x LOR     | ----      |
| Physical Tests (QC Lot: 304953)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104374-001                         | Anonymous        | solids, total dissolved [TDS]          | ----       | E162      | 40                                | mg/L     | 1920            | 1890             | 1.10%                | 20%              | ----      |
| Physical Tests (QC Lot: 304954)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104383-004                         | DUPLICATE        | solids, total dissolved [TDS]          | ----       | E162      | 20                                | mg/L     | 153             | 148              | 5                    | Diff <2x LOR     | ----      |
| Physical Tests (QC Lot: 306841)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104383-001                         | MICH-13.0        | solids, total suspended [TSS]          | ----       | E160-H    | 3.0                               | mg/L     | <3.0            | <3.0             | 0                    | Diff <2x LOR     | ----      |
| Physical Tests (QC Lot: 309195)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2103857-001                         | Anonymous        | pH                                     | ----       | E108      | 0.10                              | pH units | 8.43            | 8.43             | 0.00%                | 4%               | ----      |
| Physical Tests (QC Lot: 309196)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2103857-001                         | Anonymous        | alkalinity, bicarbonate (as CaCO3)     | ----       | E290      | 1.0                               | mg/L     | 243             | 234              | 3.56%                | 20%              | ----      |
|                                       |                  | alkalinity, carbonate (as CaCO3)       | ----       | E290      | 1.0                               | mg/L     | 17.8            | 16.6             | 6.98%                | 20%              | ----      |
|                                       |                  | alkalinity, hydroxide (as CaCO3)       | ----       | E290      | 1.0                               | mg/L     | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | alkalinity, phenolphthalein (as CaCO3) | ----       | E290      | 1.0                               | mg/L     | 8.9             | 8.3              | 0.6                  | Diff <2x LOR     | ----      |
|                                       |                  | alkalinity, total (as CaCO3)           | ----       | E290      | 1.0                               | mg/L     | 260             | 251              | 3.79%                | 20%              | ----      |
| Physical Tests (QC Lot: 309197)       |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2103857-001                         | Anonymous        | conductivity                           | ----       | E100      | 2.0                               | µS/cm    | 972             | 975              | 0.308%               | 10%              | ----      |
| Anions and Nutrients (QC Lot: 301877) |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104374-010                         | Anonymous        | phosphate, ortho-, dissolved (as P)    | 14265-44-2 | E378-U    | 0.0010                            | mg/L     | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ----      |
| Anions and Nutrients (QC Lot: 302449) |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104363-001                         | Anonymous        | fluoride                               | 16984-48-8 | E235.F    | 0.020                             | mg/L     | 0.047           | 0.047            | 0.0001               | Diff <2x LOR     | ----      |
| Anions and Nutrients (QC Lot: 302452) |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104363-001                         | Anonymous        | chloride                               | 16887-00-6 | E235.Cl   | 0.50                              | mg/L     | 3.72            | 3.66             | 0.06                 | Diff <2x LOR     | ----      |
| Anions and Nutrients (QC Lot: 302453) |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104363-001                         | Anonymous        | sulfate (as SO4)                       | 14808-79-8 | E235.SO4  | 0.30                              | mg/L     | 86.0            | 86.0             | 0.0200%              | 20%              | ----      |
| Anions and Nutrients (QC Lot: 302454) |                  |                                        |            |           |                                   |          |                 |                  |                      |                  |           |
| CG2104374-012                         | Anonymous        | bromide                                | 24959-67-9 | E235.Br-L | 0.050                             | mg/L     | 2.22            | 2.20             | 0.925%               | 20%              | ----      |



| Sub-Matrix: <b>Water</b>                           |                  |                                 |            |            | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|----------------------------------------------------|------------------|---------------------------------|------------|------------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                               | Client sample ID | Analyte                         | CAS Number | Method     | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Anions and Nutrients (QC Lot: 302456)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104374-012                                      | Anonymous        | nitrate (as N)                  | 14797-55-8 | E235.NO3-L | 0.0050                            | mg/L | 0.140           | 0.140            | 0.357%               | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 302457)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104374-012                                      | Anonymous        | nitrite (as N)                  | 14797-65-0 | E235.NO2-L | 0.0010                            | mg/L | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 304414)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104374-001                                      | Anonymous        | phosphorus, total               | 7723-14-0  | E372-U     | 0.0020                            | mg/L | <0.0020         | 0.0026           | 0.0006               | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 304415)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104383-004                                      | DUPLICATE        | phosphorus, total               | 7723-14-0  | E372-U     | 0.0020                            | mg/L | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 305651)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104317-002                                      | Anonymous        | Kjeldahl nitrogen, total [TKN]  | ----       | E318       | 0.050                             | mg/L | 0.904           | 0.968            | 6.82%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 318216)</b>       |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                      | MICH-13.0        | ammonia, total (as N)           | 7664-41-7  | E298       | 0.0050                            | mg/L | 0.0111          | 0.0095           | 0.0016               | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 309369)</b> |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104374-001                                      | Anonymous        | carbon, dissolved organic [DOC] | ----       | E358-L     | 0.50                              | mg/L | 0.65            | 0.63             | 0.02                 | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 309373)</b> |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104381-001                                      | Anonymous        | carbon, total organic [TOC]     | ----       | E355-L     | 10.0                              | mg/L | 258             | 266              | 3.28%                | 20%              | ----      |
| <b>Total Metals (QC Lot: 302822)</b>               |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                      | MICH-13.0        | mercury, total                  | 7439-97-6  | E508       | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 306382)</b>               |                  |                                 |            |            |                                   |      |                 |                  |                      |                  |           |
| CG2104367-001                                      | Anonymous        | aluminum, total                 | 7429-90-5  | E420       | 0.0030                            | mg/L | 0.189           | 0.185            | 1.73%                | 20%              | ----      |
|                                                    |                  | antimony, total                 | 7440-36-0  | E420       | 0.00010                           | mg/L | 0.00022         | 0.00022          | 0.000004             | Diff <2x LOR     | ----      |
|                                                    |                  | arsenic, total                  | 7440-38-2  | E420       | 0.00010                           | mg/L | 0.00018         | 0.00023          | 0.00005              | Diff <2x LOR     | ----      |
|                                                    |                  | barium, total                   | 7440-39-3  | E420       | 0.00010                           | mg/L | 0.0597          | 0.0582           | 2.64%                | 20%              | ----      |
|                                                    |                  | beryllium, total                | 7440-41-7  | E420       | 0.000020                          | mg/L | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | bismuth, total                  | 7440-69-9  | E420       | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | boron, total                    | 7440-42-8  | E420       | 0.010                             | mg/L | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | cadmium, total                  | 7440-43-9  | E420       | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | calcium, total                  | 7440-70-2  | E420       | 0.050                             | mg/L | 47.2            | 46.9             | 0.766%               | 20%              | ----      |
|                                                    |                  | chromium, total                 | 7440-47-3  | E420       | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | cobalt, total                   | 7440-48-4  | E420       | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | copper, total                   | 7440-50-8  | E420       | 0.00050                           | mg/L | 0.0872          | 0.0871           | 0.0458%              | 20%              | ----      |
|                                                    |                  | iron, total                     | 7439-89-6  | E420       | 0.030                             | mg/L | <0.030          | <0.030           | 0                    | Diff <2x LOR     | ----      |
|                                                    |                  | lead, total                     | 7439-92-1  | E420       | 0.000050                          | mg/L | 0.000982        | 0.000978         | 0.492%               | 20%              | ----      |
|                                                    |                  | lithium, total                  | 7439-93-2  | E420       | 0.0010                            | mg/L | 0.0034          | 0.0036           | 0.0002               | Diff <2x LOR     | ----      |
|                                                    |                  | magnesium, total                | 7439-95-4  | E420       | 0.100                             | mg/L | 17.9            | 17.6             | 1.85%                | 20%              | ----      |
|                                                    |                  | manganese, total                | 7439-96-5  | E420       | 0.00500                           | mg/L | <0.00500        | <0.00500         | 0                    | Diff <2x LOR     | ----      |



Sub-Matrix: **Water**

| Sub-Matrix: Water                         |                  |                      |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|-------------------------------------------|------------------|----------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                      | Client sample ID | Analyte              | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lot: 306382) - continued |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104367-001                             | Anonymous        | molybdenum, total    | 7439-98-7  | E420   | 0.000050                          | mg/L | 0.000710        | 0.000714         | 0.570%               | 20%              | ----      |
|                                           |                  | nickel, total        | 7440-02-0  | E420   | 0.00050                           | mg/L | 0.00280         | 0.00282          | 0.00002              | Diff <2x LOR     | ----      |
|                                           |                  | phosphorus, total    | 7723-14-0  | E420   | 0.050                             | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | potassium, total     | 7440-09-7  | E420   | 2.00                              | mg/L | <2.00           | <2.00            | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | selenium, total      | 7782-49-2  | E420   | 0.000050                          | mg/L | 0.000525        | 0.000534         | 1.73%                | 20%              | ----      |
|                                           |                  | silicon, total       | 7440-21-3  | E420   | 0.10                              | mg/L | 1.86            | 1.84             | 1.26%                | 20%              | ----      |
|                                           |                  | silver, total        | 7440-22-4  | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | sodium, total        | 17341-25-2 | E420   | 2.00                              | mg/L | 8.37            | 8.24             | 0.127                | Diff <2x LOR     | ----      |
|                                           |                  | strontium, total     | 7440-24-6  | E420   | 0.00020                           | mg/L | 0.389           | 0.385            | 1.24%                | 20%              | ----      |
|                                           |                  | sulfur, total        | 7704-34-9  | E420   | 0.50                              | mg/L | 24.5            | 24.9             | 1.55%                | 20%              | ----      |
|                                           |                  | thallium, total      | 7440-28-0  | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | tin, total           | 7440-31-5  | E420   | 0.00010                           | mg/L | 0.00026         | 0.00025          | 0.000007             | Diff <2x LOR     | ----      |
|                                           |                  | titanium, total      | 7440-32-6  | E420   | 0.00030                           | mg/L | <0.00030        | <0.00030         | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | uranium, total       | 7440-61-1  | E420   | 0.000010                          | mg/L | 0.000414        | 0.000415         | 0.205%               | 20%              | ----      |
|                                           |                  | vanadium, total      | 7440-62-2  | E420   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | zinc, total          | 7440-66-6  | E420   | 0.0030                            | mg/L | 0.0119          | 0.0120           | 0.0002               | Diff <2x LOR     | ----      |
|                                           |                  | zirconium, total     | 7440-67-7  | E420   | 0.00020                           | mg/L | <0.00020        | <0.00020         | 0                    | Diff <2x LOR     | ----      |
| Dissolved Metals (QC Lot: 302823)         |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                             | MICH-13.0        | mercury, dissolved   | 7439-97-6  | E509   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
| Dissolved Metals (QC Lot: 307498)         |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                             | MICH-13.0        | aluminum, dissolved  | 7429-90-5  | E421   | 0.0010                            | mg/L | 0.0016          | 0.0011           | 0.0005               | Diff <2x LOR     | ----      |
|                                           |                  | antimony, dissolved  | 7440-36-0  | E421   | 0.00010                           | mg/L | 0.00010         | <0.00010         | 0.00000004           | Diff <2x LOR     | ----      |
|                                           |                  | arsenic, dissolved   | 7440-38-2  | E421   | 0.00010                           | mg/L | 0.00022         | 0.00020          | 0.00002              | Diff <2x LOR     | ----      |
|                                           |                  | barium, dissolved    | 7440-39-3  | E421   | 0.00010                           | mg/L | 0.152           | 0.151            | 0.215%               | 20%              | ----      |
|                                           |                  | beryllium, dissolved | 7440-41-7  | E421   | 0.000020                          | mg/L | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | bismuth, dissolved   | 7440-69-9  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | boron, dissolved     | 7440-42-8  | E421   | 0.010                             | mg/L | 0.012           | 0.012            | 0.0003               | Diff <2x LOR     | ----      |
|                                           |                  | cadmium, dissolved   | 7440-43-9  | E421   | 0.0000050                         | mg/L | 0.0000290       | 0.0000262        | 0.0000028            | Diff <2x LOR     | ----      |
|                                           |                  | calcium, dissolved   | 7440-70-2  | E421   | 0.050                             | mg/L | 62.4            | 63.3             | 1.45%                | 20%              | ----      |
|                                           |                  | chromium, dissolved  | 7440-47-3  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | cobalt, dissolved    | 7440-48-4  | E421   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | copper, dissolved    | 7440-50-8  | E421   | 0.00020                           | mg/L | <0.00020        | 0.00020          | 0.000004             | Diff <2x LOR     | ----      |
|                                           |                  | iron, dissolved      | 7439-89-6  | E421   | 0.010                             | mg/L | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | lead, dissolved      | 7439-92-1  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                           |                  | lithium, dissolved   | 7439-93-2  | E421   | 0.0010                            | mg/L | 0.0074          | 0.0075           | 0.00009              | Diff <2x LOR     | ----      |



Sub-Matrix: **Water**

| Sub-Matrix: Water                             |                  |                              |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|-----------------------------------------------|------------------|------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                          | Client sample ID | Analyte                      | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Dissolved Metals (QC Lot: 307498) - continued |                  |                              |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                 | MICH-13.0        | magnesium, dissolved         | 7439-95-4  | E421   | 0.100                             | mg/L | 22.0            | 21.6             | 1.74%                | 20%              | ----      |
|                                               |                  | manganese, dissolved         | 7439-96-5  | E421   | 0.00010                           | mg/L | 0.00054         | 0.00055          | 0.000006             | Diff <2x LOR     | ----      |
|                                               |                  | molybdenum, dissolved        | 7439-98-7  | E421   | 0.000050                          | mg/L | 0.000743        | 0.000749         | 0.834%               | 20%              | ----      |
|                                               |                  | nickel, dissolved            | 7440-02-0  | E421   | 0.00050                           | mg/L | 0.00083         | 0.00083          | 0.000006             | Diff <2x LOR     | ----      |
|                                               |                  | phosphorus, dissolved        | 7723-14-0  | E421   | 0.050                             | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | potassium, dissolved         | 7440-09-7  | E421   | 0.100                             | mg/L | 0.769           | 0.763            | 0.006                | Diff <2x LOR     | ----      |
|                                               |                  | selenium, dissolved          | 7782-49-2  | E421   | 0.000050                          | mg/L | 0.00247         | 0.00246          | 0.396%               | 20%              | ----      |
|                                               |                  | silicon, dissolved           | 7440-21-3  | E421   | 0.050                             | mg/L | 2.15            | 2.15             | 0.188%               | 20%              | ----      |
|                                               |                  | silver, dissolved            | 7440-22-4  | E421   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | sodium, dissolved            | 17341-25-2 | E421   | 0.050                             | mg/L | 5.31            | 5.30             | 0.172%               | 20%              | ----      |
|                                               |                  | strontium, dissolved         | 7440-24-6  | E421   | 0.00020                           | mg/L | 0.202           | 0.199            | 1.68%                | 20%              | ----      |
|                                               |                  | sulfur, dissolved            | 7704-34-9  | E421   | 0.50                              | mg/L | 34.5            | 34.0             | 1.58%                | 20%              | ----      |
|                                               |                  | thallium, dissolved          | 7440-28-0  | E421   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | tin, dissolved               | 7440-31-5  | E421   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | titanium, dissolved          | 7440-32-6  | E421   | 0.00030                           | mg/L | <0.00030        | <0.00030         | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | uranium, dissolved           | 7440-61-1  | E421   | 0.000010                          | mg/L | 0.000822        | 0.000817         | 0.600%               | 20%              | ----      |
|                                               |                  | vanadium, dissolved          | 7440-62-2  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | zinc, dissolved              | 7440-66-6  | E421   | 0.0010                            | mg/L | 0.0014          | <0.0010          | 0.0004               | Diff <2x LOR     | ----      |
|                                               |                  | zirconium, dissolved         | 7440-67-7  | E421   | 0.00020                           | mg/L | <0.00020        | <0.00020         | 0                    | Diff <2x LOR     | ----      |
| Aggregate Organics (QC Lot: 304986)           |                  |                              |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104374-009                                 | Anonymous        | chemical oxygen demand [COD] | ----       | E559-L | 10                                | mg/L | <10             | <10              | 0                    | Diff <2x LOR     | ----      |
| Volatile Organic Compounds (QC Lot: 303358)   |                  |                              |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                 | MICH-13.0        | acetone                      | 67-64-1    | E611F  | 20                                | µg/L | <20             | <20              | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | benzene                      | 71-43-2    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | bromobenzene                 | 108-86-1   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | bromochloromethane           | 74-97-5    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | bromodichloromethane         | 75-27-4    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | bromoform                    | 75-25-2    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | bromomethane                 | 74-83-9    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | butylbenzene, n-             | 104-51-8   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | butylbenzene, sec-           | 135-98-8   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | butylbenzene, tert-          | 98-06-6    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | carbon disulfide             | 75-15-0    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | carbon tetrachloride         | 56-23-5    | E611F  | 0.20                              | µg/L | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ----      |
|                                               |                  | chlorobenzene                | 108-90-7   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |



Sub-Matrix: **Water**

|                                                                |                  |                                |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|----------------------------------------------------------------|------------------|--------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                           | Client sample ID | Analyte                        | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Volatile Organic Compounds (QC Lot: 303358) - continued</b> |                  |                                |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                                  | MICH-13.0        | chloroethane                   | 75-00-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | chloroform                     | 67-66-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | chloromethane                  | 74-87-3    | E611F  | 2.0                               | µg/L | <2.0            | <2.0             | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | chlorotoluene, 2-              | 95-49-8    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | chlorotoluene, 4-              | 106-43-4   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | cymene, p-                     | 99-87-6    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dibromo-3-chloropropane, 1,2-  | 96-12-8    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dibromochloromethane           | 124-48-1   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dibromoethane, 1,2-            | 106-93-4   | E611F  | 0.20                              | µg/L | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dibromomethane                 | 74-95-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichlorobenzene, 1,2-          | 95-50-1    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichlorobenzene, 1,3-          | 541-73-1   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichlorobenzene, 1,4-          | 106-46-7   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichlorodifluoromethane        | 75-71-8    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloroethane, 1,1-           | 75-34-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloroethane, 1,2-           | 107-06-2   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloroethylene, 1,1-         | 75-35-4    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloroethylene, cis-1,2-     | 156-59-2   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloroethylene, trans-1,2-   | 156-60-5   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloromethane                | 75-09-2    | E611F  | 1.0                               | µg/L | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropane, 1,2-          | 78-87-5    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropane, 1,3-          | 142-28-9   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropane, 2,2-          | 594-20-7   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropylene, 1,1-        | 563-58-6   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropylene, cis-1,3-    | 10061-01-5 | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | dichloropropylene, trans-1,3-  | 10061-02-6 | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | ethylbenzene                   | 100-41-4   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | hexachlorobutadiene            | 87-68-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | hexane, n-                     | 110-54-3   | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | hexanone, 2-                   | 591-78-6   | E611F  | 20                                | µg/L | <20             | <20              | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | isopropylbenzene               | 98-82-8    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | methyl ethyl ketone [MEK]      | 78-93-3    | E611F  | 20                                | µg/L | <20             | <20              | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | methyl isobutyl ketone [MIBK]  | 108-10-1   | E611F  | 20                                | µg/L | <20             | <20              | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | methyl-tert-butyl ether [MTBE] | 1634-04-4  | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | naphthalene                    | 91-20-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |



Sub-Matrix: **Water**

|                                                                |                  |                             |             |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|----------------------------------------------------------------|------------------|-----------------------------|-------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                           | Client sample ID | Analyte                     | CAS Number  | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Volatile Organic Compounds (QC Lot: 303358) - continued</b> |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| CG2104383-001                                                  | MICH-13.0        | propylbenzene, n-           | 103-65-1    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | styrene                     | 100-42-5    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | tetrachloroethane, 1,1,1,2- | 630-20-6    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | tetrachloroethane, 1,1,2,2- | 79-34-5     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | tetrachloroethylene         | 127-18-4    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | toluene                     | 108-88-3    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichlorobenzene, 1,2,3-    | 87-61-6     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichlorobenzene, 1,2,4-    | 120-82-1    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichloroethane, 1,1,1-     | 71-55-6     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichloroethane, 1,1,2-     | 79-00-5     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichloroethylene           | 79-01-6     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichlorofluoromethane      | 75-69-4     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trichloropropane, 1,2,3-    | 96-18-4     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trimethylbenzene, 1,2,4-    | 95-63-6     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | trimethylbenzene, 1,3,5-    | 108-67-8    | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | vinyl chloride              | 75-01-4     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | xylene, m+p-                | 179601-23-1 | E611F  | 0.40                              | µg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ----      |
|                                                                |                  | xylene, o-                  | 95-47-6     | E611F  | 0.30                              | µg/L | <0.30           | <0.30            | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

| Analyte                                             | CAS Number | Method     | LOR   | Unit  | Result  | Qualifier |
|-----------------------------------------------------|------------|------------|-------|-------|---------|-----------|
| <b>Physical Tests (QCLot: 302488)</b>               |            |            |       |       |         |           |
| colour, true                                        | ----       | E329       | 5     | CU    | <5.0    | ----      |
| <b>Physical Tests (QCLot: 303018)</b>               |            |            |       |       |         |           |
| turbidity                                           | ----       | E121       | 0.1   | NTU   | <0.10   | ----      |
| <b>Physical Tests (QCLot: 303091)</b>               |            |            |       |       |         |           |
| turbidity                                           | ----       | E121       | 0.1   | NTU   | <0.10   | ----      |
| <b>Physical Tests (QCLot: 304953)</b>               |            |            |       |       |         |           |
| solids, total dissolved [TDS]                       | ----       | E162       | 10    | mg/L  | <10     | ----      |
| <b>Physical Tests (QCLot: 304954)</b>               |            |            |       |       |         |           |
| solids, total dissolved [TDS]                       | ----       | E162       | 10    | mg/L  | <10     | ----      |
| <b>Physical Tests (QCLot: 306841)</b>               |            |            |       |       |         |           |
| solids, total suspended [TSS]                       | ----       | E160-H     | 3     | mg/L  | <3.0    | ----      |
| <b>Physical Tests (QCLot: 309196)</b>               |            |            |       |       |         |           |
| alkalinity, bicarbonate (as CaCO <sub>3</sub> )     | ----       | E290       | 1     | mg/L  | <1.0    | ----      |
| alkalinity, carbonate (as CaCO <sub>3</sub> )       | ----       | E290       | 1     | mg/L  | <1.0    | ----      |
| alkalinity, hydroxide (as CaCO <sub>3</sub> )       | ----       | E290       | 1     | mg/L  | <1.0    | ----      |
| alkalinity, phenolphthalein (as CaCO <sub>3</sub> ) | ----       | E290       | 1     | mg/L  | <1.0    | ----      |
| alkalinity, total (as CaCO <sub>3</sub> )           | ----       | E290       | 1     | mg/L  | <1.0    | ----      |
| <b>Physical Tests (QCLot: 309197)</b>               |            |            |       |       |         |           |
| conductivity                                        | ----       | E100       | 1     | µS/cm | <1.0    | ----      |
| <b>Anions and Nutrients (QCLot: 301877)</b>         |            |            |       |       |         |           |
| phosphate, ortho-, dissolved (as P)                 | 14265-44-2 | E378-U     | 0.001 | mg/L  | <0.0010 | ----      |
| <b>Anions and Nutrients (QCLot: 302449)</b>         |            |            |       |       |         |           |
| fluoride                                            | 16984-48-8 | E235.F     | 0.02  | mg/L  | <0.020  | ----      |
| <b>Anions and Nutrients (QCLot: 302452)</b>         |            |            |       |       |         |           |
| chloride                                            | 16887-00-6 | E235.Cl    | 0.5   | mg/L  | <0.50   | ----      |
| <b>Anions and Nutrients (QCLot: 302453)</b>         |            |            |       |       |         |           |
| sulfate (as SO <sub>4</sub> )                       | 14808-79-8 | E235.SO4   | 0.3   | mg/L  | <0.30   | ----      |
| <b>Anions and Nutrients (QCLot: 302454)</b>         |            |            |       |       |         |           |
| bromide                                             | 24959-67-9 | E235.Br-L  | 0.05  | mg/L  | <0.050  | ----      |
| <b>Anions and Nutrients (QCLot: 302456)</b>         |            |            |       |       |         |           |
| nitrate (as N)                                      | 14797-55-8 | E235.NO3-L | 0.005 | mg/L  | <0.0050 | ----      |
| <b>Anions and Nutrients (QCLot: 302457)</b>         |            |            |       |       |         |           |
| nitrite (as N)                                      | 14797-65-0 | E235.NO2-L | 0.001 | mg/L  | <0.0010 | ----      |



Sub-Matrix: Water

| Analyte                                           | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|---------------------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Anions and Nutrients (QCLot: 304414)</b>       |            |        |          |      |            |           |
| phosphorus, total                                 | 7723-14-0  | E372-U | 0.002    | mg/L | <0.0020    | ----      |
| <b>Anions and Nutrients (QCLot: 304415)</b>       |            |        |          |      |            |           |
| phosphorus, total                                 | 7723-14-0  | E372-U | 0.002    | mg/L | <0.0020    | ----      |
| <b>Anions and Nutrients (QCLot: 305651)</b>       |            |        |          |      |            |           |
| Kjeldahl nitrogen, total [TKN]                    | ----       | E318   | 0.05     | mg/L | <0.050     | ----      |
| <b>Anions and Nutrients (QCLot: 318216)</b>       |            |        |          |      |            |           |
| ammonia, total (as N)                             | 7664-41-7  | E298   | 0.005    | mg/L | <0.0050    | ----      |
| <b>Organic / Inorganic Carbon (QCLot: 309369)</b> |            |        |          |      |            |           |
| carbon, dissolved organic [DOC]                   | ----       | E358-L | 0.5      | mg/L | <0.50      | ----      |
| <b>Organic / Inorganic Carbon (QCLot: 309373)</b> |            |        |          |      |            |           |
| carbon, total organic [TOC]                       | ----       | E355-L | 0.5      | mg/L | <0.50      | ----      |
| <b>Total Metals (QCLot: 302822)</b>               |            |        |          |      |            |           |
| mercury, total                                    | 7439-97-6  | E508   | 0.000005 | mg/L | <0.0000050 | ----      |
| <b>Total Metals (QCLot: 306382)</b>               |            |        |          |      |            |           |
| aluminum, total                                   | 7429-90-5  | E420   | 0.003    | mg/L | <0.0030    | ----      |
| antimony, total                                   | 7440-36-0  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| arsenic, total                                    | 7440-38-2  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| barium, total                                     | 7440-39-3  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| beryllium, total                                  | 7440-41-7  | E420   | 0.00002  | mg/L | <0.000020  | ----      |
| bismuth, total                                    | 7440-69-9  | E420   | 0.00005  | mg/L | <0.000050  | ----      |
| boron, total                                      | 7440-42-8  | E420   | 0.01     | mg/L | <0.010     | ----      |
| cadmium, total                                    | 7440-43-9  | E420   | 0.000005 | mg/L | <0.0000050 | ----      |
| calcium, total                                    | 7440-70-2  | E420   | 0.05     | mg/L | <0.050     | ----      |
| chromium, total                                   | 7440-47-3  | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| cobalt, total                                     | 7440-48-4  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| copper, total                                     | 7440-50-8  | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| iron, total                                       | 7439-89-6  | E420   | 0.01     | mg/L | <0.010     | ----      |
| lead, total                                       | 7439-92-1  | E420   | 0.00005  | mg/L | <0.000050  | ----      |
| lithium, total                                    | 7439-93-2  | E420   | 0.001    | mg/L | <0.0010    | ----      |
| magnesium, total                                  | 7439-95-4  | E420   | 0.005    | mg/L | <0.0050    | ----      |
| manganese, total                                  | 7439-96-5  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| molybdenum, total                                 | 7439-98-7  | E420   | 0.00005  | mg/L | <0.000050  | ----      |
| nickel, total                                     | 7440-02-0  | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| phosphorus, total                                 | 7723-14-0  | E420   | 0.05     | mg/L | <0.050     | ----      |
| potassium, total                                  | 7440-09-7  | E420   | 0.05     | mg/L | <0.050     | ----      |
| selenium, total                                   | 7782-49-2  | E420   | 0.00005  | mg/L | <0.000050  | ----      |



Sub-Matrix: Water

| Analyte                                         | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|-------------------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 306382) - continued</b> |            |        |          |      |            |           |
| silicon, total                                  | 7440-21-3  | E420   | 0.1      | mg/L | <0.10      | ----      |
| silver, total                                   | 7440-22-4  | E420   | 0.00001  | mg/L | <0.000010  | ----      |
| sodium, total                                   | 17341-25-2 | E420   | 0.05     | mg/L | <0.050     | ----      |
| strontium, total                                | 7440-24-6  | E420   | 0.0002   | mg/L | <0.00020   | ----      |
| sulfur, total                                   | 7704-34-9  | E420   | 0.5      | mg/L | <0.50      | ----      |
| thallium, total                                 | 7440-28-0  | E420   | 0.00001  | mg/L | <0.000010  | ----      |
| tin, total                                      | 7440-31-5  | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| titanium, total                                 | 7440-32-6  | E420   | 0.0003   | mg/L | <0.00030   | ----      |
| uranium, total                                  | 7440-61-1  | E420   | 0.00001  | mg/L | <0.000010  | ----      |
| vanadium, total                                 | 7440-62-2  | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| zinc, total                                     | 7440-66-6  | E420   | 0.003    | mg/L | <0.0030    | ----      |
| zirconium, total                                | 7440-67-7  | E420   | 0.0002   | mg/L | <0.00020   | ----      |
| <b>Dissolved Metals (QCLot: 302823)</b>         |            |        |          |      |            |           |
| mercury, dissolved                              | 7439-97-6  | E509   | 0.000005 | mg/L | <0.0000050 | ----      |
| <b>Dissolved Metals (QCLot: 307498)</b>         |            |        |          |      |            |           |
| aluminum, dissolved                             | 7429-90-5  | E421   | 0.001    | mg/L | <0.0010    | ----      |
| antimony, dissolved                             | 7440-36-0  | E421   | 0.0001   | mg/L | <0.00010   | ----      |
| arsenic, dissolved                              | 7440-38-2  | E421   | 0.0001   | mg/L | <0.00010   | ----      |
| barium, dissolved                               | 7440-39-3  | E421   | 0.0001   | mg/L | <0.00010   | ----      |
| beryllium, dissolved                            | 7440-41-7  | E421   | 0.00002  | mg/L | <0.000020  | ----      |
| bismuth, dissolved                              | 7440-69-9  | E421   | 0.00005  | mg/L | <0.000050  | ----      |
| boron, dissolved                                | 7440-42-8  | E421   | 0.01     | mg/L | <0.010     | ----      |
| cadmium, dissolved                              | 7440-43-9  | E421   | 0.000005 | mg/L | <0.0000050 | ----      |
| calcium, dissolved                              | 7440-70-2  | E421   | 0.05     | mg/L | <0.050     | ----      |
| chromium, dissolved                             | 7440-47-3  | E421   | 0.0005   | mg/L | <0.00050   | ----      |
| cobalt, dissolved                               | 7440-48-4  | E421   | 0.0001   | mg/L | <0.00010   | ----      |
| copper, dissolved                               | 7440-50-8  | E421   | 0.0002   | mg/L | <0.00020   | ----      |
| iron, dissolved                                 | 7439-89-6  | E421   | 0.01     | mg/L | <0.010     | ----      |
| lead, dissolved                                 | 7439-92-1  | E421   | 0.00005  | mg/L | <0.000050  | ----      |
| lithium, dissolved                              | 7439-93-2  | E421   | 0.001    | mg/L | <0.0010    | ----      |
| magnesium, dissolved                            | 7439-95-4  | E421   | 0.005    | mg/L | <0.0050    | ----      |
| manganese, dissolved                            | 7439-96-5  | E421   | 0.0001   | mg/L | <0.00010   | ----      |
| molybdenum, dissolved                           | 7439-98-7  | E421   | 0.00005  | mg/L | <0.000050  | ----      |
| nickel, dissolved                               | 7440-02-0  | E421   | 0.0005   | mg/L | <0.00050   | ----      |
| phosphorus, dissolved                           | 7723-14-0  | E421   | 0.05     | mg/L | <0.050     | ----      |
| potassium, dissolved                            | 7440-09-7  | E421   | 0.05     | mg/L | <0.050     | ----      |



Sub-Matrix: Water

| Analyte                                             | CAS Number | Method | LOR     | Unit | Result    | Qualifier |
|-----------------------------------------------------|------------|--------|---------|------|-----------|-----------|
| <b>Dissolved Metals (QCLot: 307498) - continued</b> |            |        |         |      |           |           |
| selenium, dissolved                                 | 7782-49-2  | E421   | 0.00005 | mg/L | <0.000050 | ----      |
| silicon, dissolved                                  | 7440-21-3  | E421   | 0.05    | mg/L | <0.050    | ----      |
| silver, dissolved                                   | 7440-22-4  | E421   | 0.00001 | mg/L | <0.000010 | ----      |
| sodium, dissolved                                   | 17341-25-2 | E421   | 0.05    | mg/L | <0.050    | ----      |
| strontium, dissolved                                | 7440-24-6  | E421   | 0.0002  | mg/L | <0.00020  | ----      |
| sulfur, dissolved                                   | 7704-34-9  | E421   | 0.5     | mg/L | <0.50     | ----      |
| thallium, dissolved                                 | 7440-28-0  | E421   | 0.00001 | mg/L | <0.000010 | ----      |
| tin, dissolved                                      | 7440-31-5  | E421   | 0.0001  | mg/L | <0.00010  | ----      |
| titanium, dissolved                                 | 7440-32-6  | E421   | 0.0003  | mg/L | <0.00030  | ----      |
| uranium, dissolved                                  | 7440-61-1  | E421   | 0.00001 | mg/L | <0.000010 | ----      |
| vanadium, dissolved                                 | 7440-62-2  | E421   | 0.0005  | mg/L | <0.00050  | ----      |
| zinc, dissolved                                     | 7440-66-6  | E421   | 0.001   | mg/L | <0.0010   | ----      |
| zirconium, dissolved                                | 7440-67-7  | E421   | 0.0002  | mg/L | <0.00020  | ----      |
| <b>Aggregate Organics (QCLot: 304986)</b>           |            |        |         |      |           |           |
| chemical oxygen demand [COD]                        | ----       | E559-L | 10      | mg/L | <10       | ----      |
| <b>Volatile Organic Compounds (QCLot: 303358)</b>   |            |        |         |      |           |           |
| acetone                                             | 67-64-1    | E611F  | 20      | µg/L | <20       | ----      |
| benzene                                             | 71-43-2    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| bromobenzene                                        | 108-86-1   | E611F  | 0.5     | µg/L | <0.50     | ----      |
| bromochloromethane                                  | 74-97-5    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| bromodichloromethane                                | 75-27-4    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| bromoform                                           | 75-25-2    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| bromomethane                                        | 74-83-9    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| butylbenzene, n-                                    | 104-51-8   | E611F  | 0.5     | µg/L | <0.50     | ----      |
| butylbenzene, sec-                                  | 135-98-8   | E611F  | 0.5     | µg/L | <0.50     | ----      |
| butylbenzene, tert-                                 | 98-06-6    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| carbon disulfide                                    | 75-15-0    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| carbon tetrachloride                                | 56-23-5    | E611F  | 0.2     | µg/L | <0.20     | ----      |
| chlorobenzene                                       | 108-90-7   | E611F  | 0.5     | µg/L | <0.50     | ----      |
| chloroethane                                        | 75-00-3    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| chloroform                                          | 67-66-3    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| chloromethane                                       | 74-87-3    | E611F  | 2       | µg/L | <2.0      | ----      |
| chlorotoluene, 2-                                   | 95-49-8    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| chlorotoluene, 4-                                   | 106-43-4   | E611F  | 0.5     | µg/L | <0.50     | ----      |
| cymene, p-                                          | 99-87-6    | E611F  | 0.5     | µg/L | <0.50     | ----      |
| dibromo-3-chloropropane, 1,2-                       | 96-12-8    | E611F  | 0.5     | µg/L | <0.50     | ----      |



Sub-Matrix: Water

| Analyte                                                       | CAS Number | Method | LOR | Unit | Result | Qualifier |
|---------------------------------------------------------------|------------|--------|-----|------|--------|-----------|
| <b>Volatile Organic Compounds (QCLot: 303358) - continued</b> |            |        |     |      |        |           |
| dibromochloromethane                                          | 124-48-1   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dibromoethane, 1,2-                                           | 106-93-4   | E611F  | 0.2 | µg/L | <0.20  | ----      |
| dibromomethane                                                | 74-95-3    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichlorobenzene, 1,2-                                         | 95-50-1    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichlorobenzene, 1,3-                                         | 541-73-1   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichlorobenzene, 1,4-                                         | 106-46-7   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichlorodifluoromethane                                       | 75-71-8    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloroethane, 1,1-                                          | 75-34-3    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloroethane, 1,2-                                          | 107-06-2   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloroethylene, 1,1-                                        | 75-35-4    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloroethylene, cis-1,2-                                    | 156-59-2   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloroethylene, trans-1,2-                                  | 156-60-5   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloromethane                                               | 75-09-2    | E611F  | 1   | µg/L | <1.0   | ----      |
| dichloropropane, 1,2-                                         | 78-87-5    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloropropane, 1,3-                                         | 142-28-9   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloropropane, 2,2-                                         | 594-20-7   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloropropylene, 1,1-                                       | 563-58-6   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloropropylene, cis-1,3-                                   | 10061-01-5 | E611F  | 0.5 | µg/L | <0.50  | ----      |
| dichloropropylene, trans-1,3-                                 | 10061-02-6 | E611F  | 0.5 | µg/L | <0.50  | ----      |
| ethylbenzene                                                  | 100-41-4   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| hexachlorobutadiene                                           | 87-68-3    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| hexane, n-                                                    | 110-54-3   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| hexanone, 2-                                                  | 591-78-6   | E611F  | 20  | µg/L | <20    | ----      |
| isopropylbenzene                                              | 98-82-8    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| methyl ethyl ketone [MEK]                                     | 78-93-3    | E611F  | 20  | µg/L | <20    | ----      |
| methyl isobutyl ketone [MIBK]                                 | 108-10-1   | E611F  | 20  | µg/L | <20    | ----      |
| methyl-tert-butyl ether [MTBE]                                | 1634-04-4  | E611F  | 0.5 | µg/L | <0.50  | ----      |
| naphthalene                                                   | 91-20-3    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| propylbenzene, n-                                             | 103-65-1   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| styrene                                                       | 100-42-5   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| tetrachloroethane, 1,1,1,2-                                   | 630-20-6   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| tetrachloroethane, 1,1,2,2-                                   | 79-34-5    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| tetrachloroethylene                                           | 127-18-4   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| toluene                                                       | 108-88-3   | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichlorobenzene, 1,2,3-                                      | 87-61-6    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichlorobenzene, 1,2,4-                                      | 120-82-1   | E611F  | 0.5 | µg/L | <0.50  | ----      |



Sub-Matrix: Water

| Analyte                                                | CAS Number  | Method | LOR | Unit | Result | Qualifier |
|--------------------------------------------------------|-------------|--------|-----|------|--------|-----------|
| Volatile Organic Compounds (QCLot: 303358) - continued |             |        |     |      |        |           |
| trichloroethane, 1,1,1-                                | 71-55-6     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichloroethane, 1,1,2-                                | 79-00-5     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichloroethylene                                      | 79-01-6     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichlorofluoromethane                                 | 75-69-4     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trichloropropane, 1,2,3-                               | 96-18-4     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trimethylbenzene, 1,2,4-                               | 95-63-6     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| trimethylbenzene, 1,3,5-                               | 108-67-8    | E611F  | 0.5 | µg/L | <0.50  | ----      |
| vinyl chloride                                         | 75-01-4     | E611F  | 0.5 | µg/L | <0.50  | ----      |
| xylene, m+p-                                           | 179601-23-1 | E611F  | 0.4 | µg/L | <0.40  | ----      |
| xylene, o-                                             | 95-47-6     | E611F  | 0.3 | µg/L | <0.30  | ----      |
| Hydrocarbons (QCLot: 304374)                           |             |        |     |      |        |           |
| EPH (C10-C19)                                          | ----        | E601A  | 250 | µg/L | <250   | ----      |
| EPH (C19-C32)                                          | ----        | E601A  | 250 | µg/L | <250   | ----      |
| TEH (C10-C30), BC                                      | ----        | E601A  | 250 | µg/L | <250   | ----      |



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

| Sub-Matrix: Water                      |            |            |       |          | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|----------------------------------------|------------|------------|-------|----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                        |            |            |       |          | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|                                        |            |            |       |          | Concentration                          | LCS          | Low                 | High |           |
| Analyte                                | CAS Number | Method     | LOR   | Unit     | Concentration                          | LCS          | Low                 | High | Qualifier |
| Physical Tests (QCLot: 302488)         |            |            |       |          |                                        |              |                     |      |           |
| colour, true                           | ----       | E329       | 5     | CU       | 100 CU                                 | 104          | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 303018)         |            |            |       |          |                                        |              |                     |      |           |
| turbidity                              | ----       | E121       | 0.1   | NTU      | 200 NTU                                | 98.5         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 303091)         |            |            |       |          |                                        |              |                     |      |           |
| turbidity                              | ----       | E121       | 0.1   | NTU      | 200 NTU                                | 100.0        | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 304953)         |            |            |       |          |                                        |              |                     |      |           |
| solids, total dissolved [TDS]          | ----       | E162       | 10    | mg/L     | 1000 mg/L                              | 97.3         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 304954)         |            |            |       |          |                                        |              |                     |      |           |
| solids, total dissolved [TDS]          | ----       | E162       | 10    | mg/L     | 1000 mg/L                              | 97.4         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 306841)         |            |            |       |          |                                        |              |                     |      |           |
| solids, total suspended [TSS]          | ----       | E160-H     | 3     | mg/L     | 150 mg/L                               | 99.3         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 309195)         |            |            |       |          |                                        |              |                     |      |           |
| pH                                     | ----       | E108       | ----  | pH units | 7 pH units                             | 101          | 98.6                | 101  | ----      |
| Physical Tests (QCLot: 309196)         |            |            |       |          |                                        |              |                     |      |           |
| alkalinity, phenolphthalein (as CaCO3) | ----       | E290       | 1     | mg/L     | 229 mg/L                               | 92.2         | 85.0                | 115  | ----      |
| alkalinity, total (as CaCO3)           | ----       | E290       | 1     | mg/L     | 500 mg/L                               | 102          | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 309197)         |            |            |       |          |                                        |              |                     |      |           |
| conductivity                           | ----       | E100       | 1     | µS/cm    | 146.9 µS/cm                            | 98.9         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 301877)   |            |            |       |          |                                        |              |                     |      |           |
| phosphate, ortho-, dissolved (as P)    | 14265-44-2 | E378-U     | 0.001 | mg/L     | 0.02 mg/L                              | 101          | 80.0                | 120  | ----      |
| Anions and Nutrients (QCLot: 302449)   |            |            |       |          |                                        |              |                     |      |           |
| fluoride                               | 16984-48-8 | E235.F     | 0.02  | mg/L     | 1 mg/L                                 | 109          | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 302452)   |            |            |       |          |                                        |              |                     |      |           |
| chloride                               | 16887-00-6 | E235.Cl    | 0.5   | mg/L     | 100 mg/L                               | 103          | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 302453)   |            |            |       |          |                                        |              |                     |      |           |
| sulfate (as SO4)                       | 14808-79-8 | E235.SO4   | 0.3   | mg/L     | 100 mg/L                               | 102          | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 302454)   |            |            |       |          |                                        |              |                     |      |           |
| bromide                                | 24959-67-9 | E235.Br-L  | 0.05  | mg/L     | 0.5 mg/L                               | 103          | 85.0                | 115  | ----      |
| Anions and Nutrients (QCLot: 302456)   |            |            |       |          |                                        |              |                     |      |           |
| nitrate (as N)                         | 14797-55-8 | E235.NO3-L | 0.005 | mg/L     | 2.5 mg/L                               | 102          | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 302457)   |            |            |       |          |                                        |              |                     |      |           |
| nitrite (as N)                         | 14797-65-0 | E235.NO2-L | 0.001 | mg/L     | 0.5 mg/L                               | 102          | 90.0                | 110  | ----      |



Sub-Matrix: Water

|                                            |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------------|------------|--------|----------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                            |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                    | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| Anions and Nutrients (QCLot: 304414)       |            |        |          |      |                                        |              |                     |      |           |
| phosphorus, total                          | 7723-14-0  | E372-U | 0.002    | mg/L | 8.32 mg/L                              | 95.6         | 80.0                | 120  | ----      |
| Anions and Nutrients (QCLot: 304415)       |            |        |          |      |                                        |              |                     |      |           |
| phosphorus, total                          | 7723-14-0  | E372-U | 0.002    | mg/L | 8.32 mg/L                              | 93.6         | 80.0                | 120  | ----      |
| Anions and Nutrients (QCLot: 305651)       |            |        |          |      |                                        |              |                     |      |           |
| Kjeldahl nitrogen, total [TKN]             | ----       | E318   | 0.05     | mg/L | 4 mg/L                                 | 98.1         | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 318216)       |            |        |          |      |                                        |              |                     |      |           |
| ammonia, total (as N)                      | 7664-41-7  | E298   | 0.005    | mg/L | 0.2 mg/L                               | 105          | 85.0                | 115  | ----      |
| Organic / Inorganic Carbon (QCLot: 309369) |            |        |          |      |                                        |              |                     |      |           |
| carbon, dissolved organic [DOC]            | ----       | E358-L | 0.5      | mg/L | 10 mg/L                                | 103          | 80.0                | 120  | ----      |
| Organic / Inorganic Carbon (QCLot: 309373) |            |        |          |      |                                        |              |                     |      |           |
| carbon, total organic [TOC]                | ----       | E355-L | 0.5      | mg/L | 10 mg/L                                | 105          | 80.0                | 120  | ----      |
| Total Metals (QCLot: 302822)               |            |        |          |      |                                        |              |                     |      |           |
| mercury, total                             | 7439-97-6  | E508   | 0.000005 | mg/L | 0.0001 mg/L                            | 94.2         | 80.0                | 120  | ----      |
| Total Metals (QCLot: 306382)               |            |        |          |      |                                        |              |                     |      |           |
| aluminum, total                            | 7429-90-5  | E420   | 0.003    | mg/L | 2 mg/L                                 | 101          | 80.0                | 120  | ----      |
| antimony, total                            | 7440-36-0  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 110          | 80.0                | 120  | ----      |
| arsenic, total                             | 7440-38-2  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 100          | 80.0                | 120  | ----      |
| barium, total                              | 7440-39-3  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 99.4         | 80.0                | 120  | ----      |
| beryllium, total                           | 7440-41-7  | E420   | 0.00002  | mg/L | 0.1 mg/L                               | 100          | 80.0                | 120  | ----      |
| bismuth, total                             | 7440-69-9  | E420   | 0.00005  | mg/L | 1 mg/L                                 | 107          | 80.0                | 120  | ----      |
| boron, total                               | 7440-42-8  | E420   | 0.01     | mg/L | 1 mg/L                                 | 93.0         | 80.0                | 120  | ----      |
| cadmium, total                             | 7440-43-9  | E420   | 0.000005 | mg/L | 0.1 mg/L                               | 100          | 80.0                | 120  | ----      |
| calcium, total                             | 7440-70-2  | E420   | 0.05     | mg/L | 50 mg/L                                | 99.6         | 80.0                | 120  | ----      |
| chromium, total                            | 7440-47-3  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ----      |
| cobalt, total                              | 7440-48-4  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 102          | 80.0                | 120  | ----      |
| copper, total                              | 7440-50-8  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 98.5         | 80.0                | 120  | ----      |
| iron, total                                | 7439-89-6  | E420   | 0.01     | mg/L | 1 mg/L                                 | 101          | 80.0                | 120  | ----      |
| lead, total                                | 7439-92-1  | E420   | 0.00005  | mg/L | 0.5 mg/L                               | 105          | 80.0                | 120  | ----      |
| lithium, total                             | 7439-93-2  | E420   | 0.001    | mg/L | 0.25 mg/L                              | 89.2         | 80.0                | 120  | ----      |
| magnesium, total                           | 7439-95-4  | E420   | 0.005    | mg/L | 50 mg/L                                | 115          | 80.0                | 120  | ----      |
| manganese, total                           | 7439-96-5  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 100          | 80.0                | 120  | ----      |
| molybdenum, total                          | 7439-98-7  | E420   | 0.00005  | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120  | ----      |
| nickel, total                              | 7440-02-0  | E420   | 0.0005   | mg/L | 0.5 mg/L                               | 99.7         | 80.0                | 120  | ----      |
| phosphorus, total                          | 7723-14-0  | E420   | 0.05     | mg/L | 10 mg/L                                | 110          | 70.0                | 130  | ----      |
| potassium, total                           | 7440-09-7  | E420   | 0.05     | mg/L | 50 mg/L                                | 101          | 80.0                | 120  | ----      |



Sub-Matrix: Water

|                                          |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|------------------------------------------|------------|--------|----------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                          |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| Total Metals (QCLot: 306382) - continued |            |        |          |      |                                        |              |                     |      |           |
| selenium, total                          | 7782-49-2  | E420   | 0.00005  | mg/L | 1 mg/L                                 | 98.0         | 80.0                | 120  | ----      |
| silicon, total                           | 7440-21-3  | E420   | 0.1      | mg/L | 10 mg/L                                | 101          | 60.0                | 140  | ----      |
| silver, total                            | 7440-22-4  | E420   | 0.00001  | mg/L | 0.1 mg/L                               | 100          | 80.0                | 120  | ----      |
| sodium, total                            | 17341-25-2 | E420   | 0.05     | mg/L | 50 mg/L                                | 99.6         | 80.0                | 120  | ----      |
| strontium, total                         | 7440-24-6  | E420   | 0.0002   | mg/L | 0.25 mg/L                              | 110          | 80.0                | 120  | ----      |
| sulfur, total                            | 7704-34-9  | E420   | 0.5      | mg/L | 50 mg/L                                | 106          | 80.0                | 120  | ----      |
| thallium, total                          | 7440-28-0  | E420   | 0.00001  | mg/L | 1 mg/L                                 | 106          | 80.0                | 120  | ----      |
| tin, total                               | 7440-31-5  | E420   | 0.0001   | mg/L | 0.5 mg/L                               | 100          | 80.0                | 120  | ----      |
| titanium, total                          | 7440-32-6  | E420   | 0.0003   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ----      |
| uranium, total                           | 7440-61-1  | E420   | 0.00001  | mg/L | 0.005 mg/L                             | 104          | 80.0                | 120  | ----      |
| vanadium, total                          | 7440-62-2  | E420   | 0.0005   | mg/L | 0.5 mg/L                               | 101          | 80.0                | 120  | ----      |
| zinc, total                              | 7440-66-6  | E420   | 0.003    | mg/L | 0.5 mg/L                               | 97.2         | 80.0                | 120  | ----      |
| zirconium, total                         | 7440-67-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 99.2         | 80.0                | 120  | ----      |
| mercury, dissolved                       | 7439-97-6  | E509   | 0.000005 | mg/L | 0.0001 mg/L                            | 99.5         | 80.0                | 120  | ----      |
| Dissolved Metals (QCLot: 307498)         |            |        |          |      |                                        |              |                     |      |           |
| aluminum, dissolved                      | 7429-90-5  | E421   | 0.001    | mg/L | 2 mg/L                                 | 105          | 80.0                | 120  | ----      |
| antimony, dissolved                      | 7440-36-0  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 105          | 80.0                | 120  | ----      |
| arsenic, dissolved                       | 7440-38-2  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 103          | 80.0                | 120  | ----      |
| barium, dissolved                        | 7440-39-3  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120  | ----      |
| beryllium, dissolved                     | 7440-41-7  | E421   | 0.00002  | mg/L | 0.1 mg/L                               | 103          | 80.0                | 120  | ----      |
| bismuth, dissolved                       | 7440-69-9  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 104          | 80.0                | 120  | ----      |
| boron, dissolved                         | 7440-42-8  | E421   | 0.01     | mg/L | 1 mg/L                                 | 92.3         | 80.0                | 120  | ----      |
| cadmium, dissolved                       | 7440-43-9  | E421   | 0.000005 | mg/L | 0.1 mg/L                               | 103          | 80.0                | 120  | ----      |
| calcium, dissolved                       | 7440-70-2  | E421   | 0.05     | mg/L | 50 mg/L                                | 102          | 80.0                | 120  | ----      |
| chromium, dissolved                      | 7440-47-3  | E421   | 0.0005   | mg/L | 0.25 mg/L                              | 106          | 80.0                | 120  | ----      |
| cobalt, dissolved                        | 7440-48-4  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 106          | 80.0                | 120  | ----      |
| copper, dissolved                        | 7440-50-8  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ----      |
| iron, dissolved                          | 7439-89-6  | E421   | 0.01     | mg/L | 1 mg/L                                 | 103          | 80.0                | 120  | ----      |
| lead, dissolved                          | 7439-92-1  | E421   | 0.00005  | mg/L | 0.5 mg/L                               | 100          | 80.0                | 120  | ----      |
| lithium, dissolved                       | 7439-93-2  | E421   | 0.001    | mg/L | 0.25 mg/L                              | 116          | 80.0                | 120  | ----      |
| magnesium, dissolved                     | 7439-95-4  | E421   | 0.005    | mg/L | 50 mg/L                                | 116          | 80.0                | 120  | ----      |
| manganese, dissolved                     | 7439-96-5  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 105          | 80.0                | 120  | ----      |
| molybdenum, dissolved                    | 7439-98-7  | E421   | 0.00005  | mg/L | 0.25 mg/L                              | 106          | 80.0                | 120  | ----      |
| nickel, dissolved                        | 7440-02-0  | E421   | 0.0005   | mg/L | 0.5 mg/L                               | 105          | 80.0                | 120  | ----      |
| phosphorus, dissolved                    | 7723-14-0  | E421   | 0.05     | mg/L | 10 mg/L                                | 115          | 70.0                | 130  | ----      |
| potassium, dissolved                     | 7440-09-7  | E421   | 0.05     | mg/L | 50 mg/L                                | 110          | 80.0                | 120  | ----      |
| selenium, dissolved                      | 7782-49-2  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 97.4         | 80.0                | 120  | ----      |



Sub-Matrix: Water

|                                              |            |        |         |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|----------------------------------------------|------------|--------|---------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                              |            |        |         |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                      | CAS Number | Method | LOR     | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| Dissolved Metals (QCLot: 307498) - continued |            |        |         |      |                                        |              |                     |      |           |
| silicon, dissolved                           | 7440-21-3  | E421   | 0.05    | mg/L | 10 mg/L                                | 101          | 60.0                | 140  | ----      |
| silver, dissolved                            | 7440-22-4  | E421   | 0.00001 | mg/L | 0.1 mg/L                               | 99.6         | 80.0                | 120  | ----      |
| sodium, dissolved                            | 17341-25-2 | E421   | 0.05    | mg/L | 50 mg/L                                | 109          | 80.0                | 120  | ----      |
| strontium, dissolved                         | 7440-24-6  | E421   | 0.0002  | mg/L | 0.25 mg/L                              | 107          | 80.0                | 120  | ----      |
| sulfur, dissolved                            | 7704-34-9  | E421   | 0.5     | mg/L | 50 mg/L                                | 116          | 80.0                | 120  | ----      |
| thallium, dissolved                          | 7440-28-0  | E421   | 0.00001 | mg/L | 1 mg/L                                 | 97.0         | 80.0                | 120  | ----      |
| tin, dissolved                               | 7440-31-5  | E421   | 0.0001  | mg/L | 0.5 mg/L                               | 104          | 80.0                | 120  | ----      |
| titanium, dissolved                          | 7440-32-6  | E421   | 0.0003  | mg/L | 0.25 mg/L                              | 106          | 80.0                | 120  | ----      |
| uranium, dissolved                           | 7440-61-1  | E421   | 0.00001 | mg/L | 0.005 mg/L                             | 101          | 80.0                | 120  | ----      |
| vanadium, dissolved                          | 7440-62-2  | E421   | 0.0005  | mg/L | 0.5 mg/L                               | 106          | 80.0                | 120  | ----      |
| zinc, dissolved                              | 7440-66-6  | E421   | 0.001   | mg/L | 0.5 mg/L                               | 98.2         | 80.0                | 120  | ----      |
| zirconium, dissolved                         | 7440-67-7  | E421   | 0.0002  | mg/L | 0.1 mg/L                               | 103          | 80.0                | 120  | ----      |
| Aggregate Organics (QCLot: 304986)           |            |        |         |      |                                        |              |                     |      |           |
| chemical oxygen demand [COD]                 | ----       | E559-L | 10      | mg/L | 100 mg/L                               | 99.7         | 85.0                | 115  | ----      |
| Volatile Organic Compounds (QCLot: 303358)   |            |        |         |      |                                        |              |                     |      |           |
| acetone                                      | 67-64-1    | E611F  | 20      | µg/L | 2000 µg/L                              | 92.3         | 70.0                | 130  | ----      |
| benzene                                      | 71-43-2    | E611F  | 0.5     | µg/L | 100 µg/L                               | 88.6         | 70.0                | 130  | ----      |
| bromobenzene                                 | 108-86-1   | E611F  | 0.5     | µg/L | 100 µg/L                               | 115          | 70.0                | 130  | ----      |
| bromochloromethane                           | 74-97-5    | E611F  | 0.5     | µg/L | 100 µg/L                               | 106          | 70.0                | 130  | ----      |
| bromodichloromethane                         | 75-27-4    | E611F  | 0.5     | µg/L | 100 µg/L                               | 96.2         | 70.0                | 130  | ----      |
| bromoform                                    | 75-25-2    | E611F  | 0.5     | µg/L | 100 µg/L                               | 120          | 70.0                | 130  | ----      |
| bromomethane                                 | 74-83-9    | E611F  | 0.5     | µg/L | 100 µg/L                               | 103          | 60.0                | 140  | ----      |
| butylbenzene, n-                             | 104-51-8   | E611F  | 0.5     | µg/L | 100 µg/L                               | 108          | 70.0                | 130  | ----      |
| butylbenzene, sec-                           | 135-98-8   | E611F  | 0.5     | µg/L | 100 µg/L                               | 122          | 70.0                | 130  | ----      |
| butylbenzene, tert-                          | 98-06-6    | E611F  | 0.5     | µg/L | 100 µg/L                               | 112          | 70.0                | 130  | ----      |
| carbon disulfide                             | 75-15-0    | E611F  | 0.5     | µg/L | 140 µg/L                               | 71.2         | 70.0                | 130  | ----      |
| carbon tetrachloride                         | 56-23-5    | E611F  | 0.2     | µg/L | 100 µg/L                               | 104          | 70.0                | 130  | ----      |
| chlorobenzene                                | 108-90-7   | E611F  | 0.5     | µg/L | 100 µg/L                               | 108          | 70.0                | 130  | ----      |
| chloroethane                                 | 75-00-3    | E611F  | 0.5     | µg/L | 100 µg/L                               | 101          | 60.0                | 140  | ----      |
| chloroform                                   | 67-66-3    | E611F  | 0.5     | µg/L | 100 µg/L                               | 98.4         | 70.0                | 130  | ----      |
| chloromethane                                | 74-87-3    | E611F  | 2       | µg/L | 100 µg/L                               | 123          | 60.0                | 140  | ----      |
| chlorotoluene, 2-                            | 95-49-8    | E611F  | 0.5     | µg/L | 100 µg/L                               | 109          | 70.0                | 130  | ----      |
| chlorotoluene, 4-                            | 106-43-4   | E611F  | 0.5     | µg/L | 100 µg/L                               | 102          | 70.0                | 130  | ----      |
| cymene, p-                                   | 99-87-6    | E611F  | 0.5     | µg/L | 100 µg/L                               | 103          | 70.0                | 130  | ----      |
| dibromo-3-chloropropane, 1,2-                | 96-12-8    | E611F  | 0.5     | µg/L | 100 µg/L                               | 101          | 70.0                | 130  | ----      |
| dibromochloromethane                         | 124-48-1   | E611F  | 0.5     | µg/L | 100 µg/L                               | 99.4         | 70.0                | 130  | ----      |



Sub-Matrix: Water

|                                                        |            |        |     |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------------------------|------------|--------|-----|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                        |            |        |     |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                                | CAS Number | Method | LOR | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| Volatile Organic Compounds (QCLot: 303358) - continued |            |        |     |      |                                        |              |                     |      |           |
| dibromoethane, 1,2-                                    | 106-93-4   | E611F  | 0.2 | µg/L | 100 µg/L                               | 81.8         | 70.0                | 130  | ----      |
| dibromomethane                                         | 74-95-3    | E611F  | 0.5 | µg/L | 100 µg/L                               | 104          | 70.0                | 130  | ----      |
| dichlorobenzene, 1,2-                                  | 95-50-1    | E611F  | 0.5 | µg/L | 100 µg/L                               | 113          | 70.0                | 130  | ----      |
| dichlorobenzene, 1,3-                                  | 541-73-1   | E611F  | 0.5 | µg/L | 100 µg/L                               | 111          | 70.0                | 130  | ----      |
| dichlorobenzene, 1,4-                                  | 106-46-7   | E611F  | 0.5 | µg/L | 100 µg/L                               | 119          | 70.0                | 130  | ----      |
| dichlorodifluoromethane                                | 75-71-8    | E611F  | 0.5 | µg/L | 100 µg/L                               | 121          | 60.0                | 140  | ----      |
| dichloroethane, 1,1-                                   | 75-34-3    | E611F  | 0.5 | µg/L | 100 µg/L                               | 94.6         | 70.0                | 130  | ----      |
| dichloroethane, 1,2-                                   | 107-06-2   | E611F  | 0.5 | µg/L | 100 µg/L                               | 99.8         | 70.0                | 130  | ----      |
| dichloroethylene, 1,1-                                 | 75-35-4    | E611F  | 0.5 | µg/L | 100 µg/L                               | 90.9         | 70.0                | 130  | ----      |
| dichloroethylene, cis-1,2-                             | 156-59-2   | E611F  | 0.5 | µg/L | 100 µg/L                               | 88.2         | 70.0                | 130  | ----      |
| dichloroethylene, trans-1,2-                           | 156-60-5   | E611F  | 0.5 | µg/L | 100 µg/L                               | 93.4         | 70.0                | 130  | ----      |
| dichloromethane                                        | 75-09-2    | E611F  | 1   | µg/L | 100 µg/L                               | 93.7         | 70.0                | 130  | ----      |
| dichloropropane, 1,2-                                  | 78-87-5    | E611F  | 0.5 | µg/L | 100 µg/L                               | 80.4         | 70.0                | 130  | ----      |
| dichloropropane, 1,3-                                  | 142-28-9   | E611F  | 0.5 | µg/L | 100 µg/L                               | 90.8         | 70.0                | 130  | ----      |
| dichloropropane, 2,2-                                  | 594-20-7   | E611F  | 0.5 | µg/L | 100 µg/L                               | 75.8         | 70.0                | 130  | ----      |
| dichloropropylene, 1,1-                                | 563-58-6   | E611F  | 0.5 | µg/L | 100 µg/L                               | 78.5         | 70.0                | 130  | ----      |
| dichloropropylene, cis-1,3-                            | 10061-01-5 | E611F  | 0.5 | µg/L | 100 µg/L                               | 75.0         | 70.0                | 130  | ----      |
| dichloropropylene, trans-1,3-                          | 10061-02-6 | E611F  | 0.5 | µg/L | 100 µg/L                               | 71.0         | 70.0                | 130  | ----      |
| ethylbenzene                                           | 100-41-4   | E611F  | 0.5 | µg/L | 100 µg/L                               | 93.4         | 70.0                | 130  | ----      |
| hexachlorobutadiene                                    | 87-68-3    | E611F  | 0.5 | µg/L | 100 µg/L                               | 101          | 70.0                | 130  | ----      |
| hexane, n-                                             | 110-54-3   | E611F  | 0.5 | µg/L | 100 µg/L                               | 101          | 70.0                | 130  | ----      |
| hexanone, 2-                                           | 591-78-6   | E611F  | 20  | µg/L | 400.6 µg/L                             | 94.4         | 70.0                | 130  | ----      |
| isopropylbenzene                                       | 98-82-8    | E611F  | 0.5 | µg/L | 100 µg/L                               | 108          | 70.0                | 130  | ----      |
| methyl ethyl ketone [MEK]                              | 78-93-3    | E611F  | 20  | µg/L | 2000 µg/L                              | 106          | 70.0                | 130  | ----      |
| methyl isobutyl ketone [MIBK]                          | 108-10-1   | E611F  | 20  | µg/L | 401.4 µg/L                             | 102          | 70.0                | 130  | ----      |
| methyl-tert-butyl ether [MTBE]                         | 1634-04-4  | E611F  | 0.5 | µg/L | 100 µg/L                               | 109          | 70.0                | 130  | ----      |
| naphthalene                                            | 91-20-3    | E611F  | 0.5 | µg/L | 100 µg/L                               | 71.8         | 70.0                | 130  | ----      |
| propylbenzene, n-                                      | 103-65-1   | E611F  | 0.5 | µg/L | 100 µg/L                               | 104          | 70.0                | 130  | ----      |
| styrene                                                | 100-42-5   | E611F  | 0.5 | µg/L | 100 µg/L                               | 83.0         | 70.0                | 130  | ----      |
| tetrachloroethane, 1,1,1,2-                            | 630-20-6   | E611F  | 0.5 | µg/L | 100 µg/L                               | 113          | 70.0                | 130  | ----      |
| tetrachloroethane, 1,1,2,2-                            | 79-34-5    | E611F  | 0.5 | µg/L | 100 µg/L                               | 111          | 70.0                | 130  | ----      |
| tetrachloroethylene                                    | 127-18-4   | E611F  | 0.5 | µg/L | 100 µg/L                               | 109          | 70.0                | 130  | ----      |
| toluene                                                | 108-88-3   | E611F  | 0.5 | µg/L | 100 µg/L                               | 85.5         | 70.0                | 130  | ----      |
| trichlorobenzene, 1,2,3-                               | 87-61-6    | E611F  | 0.5 | µg/L | 100 µg/L                               | 114          | 70.0                | 130  | ----      |
| trichlorobenzene, 1,2,4-                               | 120-82-1   | E611F  | 0.5 | µg/L | 100 µg/L                               | 124          | 70.0                | 130  | ----      |
| trichloroethane, 1,1,1-                                | 71-55-6    | E611F  | 0.5 | µg/L | 100 µg/L                               | 90.2         | 70.0                | 130  | ----      |
| trichloroethane, 1,1,2-                                | 79-00-5    | E611F  | 0.5 | µg/L | 100 µg/L                               | 90.4         | 70.0                | 130  | ----      |
| trichloroethylene                                      | 79-01-6    | E611F  | 0.5 | µg/L | 100 µg/L                               | 95.3         | 70.0                | 130  | ----      |



Sub-Matrix: Water

|                                                        |             |        |     |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------------------------|-------------|--------|-----|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                        |             |        |     |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                                | CAS Number  | Method | LOR | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| Volatile Organic Compounds (QCLot: 303358) - continued |             |        |     |      |                                        |              |                     |      |           |
| trichlorofluoromethane                                 | 75-69-4     | E611F  | 0.5 | µg/L | 100 µg/L                               | 117          | 60.0                | 140  | ----      |
| trichloropropane, 1,2,3-                               | 96-18-4     | E611F  | 0.5 | µg/L | 100 µg/L                               | 114          | 70.0                | 130  | ----      |
| trimethylbenzene, 1,2,4-                               | 95-63-6     | E611F  | 0.5 | µg/L | 100 µg/L                               | 110          | 70.0                | 130  | ----      |
| trimethylbenzene, 1,3,5-                               | 108-67-8    | E611F  | 0.5 | µg/L | 100 µg/L                               | 111          | 70.0                | 130  | ----      |
| vinyl chloride                                         | 75-01-4     | E611F  | 0.5 | µg/L | 100 µg/L                               | 112          | 60.0                | 140  | ----      |
| xylene, m+p-                                           | 179601-23-1 | E611F  | 0.4 | µg/L | 200 µg/L                               | 113          | 70.0                | 130  | ----      |
| xylene, o-                                             | 95-47-6     | E611F  | 0.3 | µg/L | 100 µg/L                               | 96.8         | 70.0                | 130  | ----      |
| Hydrocarbons (QCLot: 304374)                           |             |        |     |      |                                        |              |                     |      |           |
| EPH (C10-C19)                                          | ----        | E601A  | 250 | µg/L | 8310 µg/L                              | 104          | 70.0                | 130  | ----      |
| EPH (C19-C32)                                          | ----        | E601A  | 250 | µg/L | 3570 µg/L                              | 102          | 70.0                | 130  | ----      |
| TEH (C10-C30), BC                                      | ----        | E601A  | 250 | µg/L | 11080 µg/L                             | 104          | 70.0                | 130  | ----      |



## Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level  $\geq 1 \times$  spike level.

Sub-Matrix: **Water**

|                                                   |                  |                                     |            |                         | Matrix Spike (MS) Report |             |              |                     |      |           |
|---------------------------------------------------|------------------|-------------------------------------|------------|-------------------------|--------------------------|-------------|--------------|---------------------|------|-----------|
|                                                   |                  |                                     |            |                         | Spike                    |             | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                              | Client sample ID | Analyte                             | CAS Number | Method                  | Concentration            | Target      | MS           | Low                 | High | Qualifier |
| <b>Anions and Nutrients (QCLot: 301877)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-011                                     | Anonymous        | phosphate, ortho-, dissolved (as P) | 14265-44-2 | E378-U                  | 0.0569 mg/L              | 0.05 mg/L   | 114          | 70.0                | 130  | ----      |
| <b>Anions and Nutrients (QCLot: 302449)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104363-009                                     | Anonymous        | fluoride                            | 16984-48-8 | E235.F                  | 1.04 mg/L                | 1 mg/L      | 104          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 302452)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104363-009                                     | Anonymous        | chloride                            | 16887-00-6 | E235.Cl                 | 109 mg/L                 | 100 mg/L    | 109          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 302453)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104363-009                                     | Anonymous        | sulfate (as SO <sub>4</sub> )       | 14808-79-8 | E235.SO <sub>4</sub>    | 105 mg/L                 | 100 mg/L    | 105          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 302454)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-013                                     | Anonymous        | bromide                             | 24959-67-9 | E235.Br-L               | 0.531 mg/L               | 0.5 mg/L    | 106          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 302456)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-013                                     | Anonymous        | nitrate (as N)                      | 14797-55-8 | E235.NO <sub>3</sub> -L | 2.73 mg/L                | 2.5 mg/L    | 109          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 302457)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-013                                     | Anonymous        | nitrite (as N)                      | 14797-65-0 | E235.NO <sub>2</sub> -L | 0.544 mg/L               | 0.5 mg/L    | 109          | 75.0                | 125  | ----      |
| <b>Anions and Nutrients (QCLot: 304414)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-002                                     | Anonymous        | phosphorus, total                   | 7723-14-0  | E372-U                  | 0.0735 mg/L              | 0.0676 mg/L | 109          | 70.0                | 130  | ----      |
| <b>Anions and Nutrients (QCLot: 304415)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104383-005                                     | FIELD BLANK      | phosphorus, total                   | 7723-14-0  | E372-U                  | 0.0637 mg/L              | 0.0676 mg/L | 94.3         | 70.0                | 130  | ----      |
| <b>Anions and Nutrients (QCLot: 305651)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104343-001                                     | Anonymous        | Kjeldahl nitrogen, total [TKN]      | ----       | E318                    | 2.27 mg/L                | 2.5 mg/L    | 90.8         | 70.0                | 130  | ----      |
| <b>Anions and Nutrients (QCLot: 318216)</b>       |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104383-002                                     | MICH-33.8        | ammonia, total (as N)               | 7664-41-7  | E298                    | 0.114 mg/L               | 0.1 mg/L    | 114          | 75.0                | 125  | ----      |
| <b>Organic / Inorganic Carbon (QCLot: 309369)</b> |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104374-001                                     | Anonymous        | carbon, dissolved organic [DOC]     | ----       | E358-L                  | 24.2 mg/L                | 23.9 mg/L   | 101          | 70.0                | 130  | ----      |
| <b>Organic / Inorganic Carbon (QCLot: 309373)</b> |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104381-001                                     | Anonymous        | carbon, total organic [TOC]         | ----       | E355-L                  | ND mg/L                  | 23.9 mg/L   | ND           | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 302822)</b>               |                  |                                     |            |                         |                          |             |              |                     |      |           |
| CG2104383-002                                     | MICH-33.8        | mercury, total                      | 7439-97-6  | E508                    | 0.000101 mg/L            | 0.0001 mg/L | 101          | 70.0                | 130  | ----      |



Sub-Matrix: **Water**

| Sub-Matrix: Water                |                  |                    |            |        | Matrix Spike (MS) Report |             |              |                     |      |           |
|----------------------------------|------------------|--------------------|------------|--------|--------------------------|-------------|--------------|---------------------|------|-----------|
|                                  |                  |                    |            |        | Spike                    |             | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID             | Client sample ID | Analyte            | CAS Number | Method | Concentration            | Target      | MS           | Low                 | High | Qualifier |
| Total Metals (QCLot: 306382)     |                  |                    |            |        |                          |             |              |                     |      |           |
| CG2104383-001                    | MICH-13.0        | aluminum, total    | 7429-90-5  | E420   | 2.01 mg/L                | 2 mg/L      | 101          | 70.0                | 130  | ----      |
|                                  |                  | antimony, total    | 7440-36-0  | E420   | 0.204 mg/L               | 0.2 mg/L    | 102          | 70.0                | 130  | ----      |
|                                  |                  | arsenic, total     | 7440-38-2  | E420   | 0.200 mg/L               | 0.2 mg/L    | 100          | 70.0                | 130  | ----      |
|                                  |                  | barium, total      | 7440-39-3  | E420   | 0.198 mg/L               | 0.2 mg/L    | 99.2         | 70.0                | 130  | ----      |
|                                  |                  | beryllium, total   | 7440-41-7  | E420   | 0.404 mg/L               | 0.4 mg/L    | 101          | 70.0                | 130  | ----      |
|                                  |                  | bismuth, total     | 7440-69-9  | E420   | 0.108 mg/L               | 0.1 mg/L    | 108          | 70.0                | 130  | ----      |
|                                  |                  | boron, total       | 7440-42-8  | E420   | 1.08 mg/L                | 1 mg/L      | 108          | 70.0                | 130  | ----      |
|                                  |                  | cadmium, total     | 7440-43-9  | E420   | 0.0402 mg/L              | 0.04 mg/L   | 101          | 70.0                | 130  | ----      |
|                                  |                  | calcium, total     | 7440-70-2  | E420   | ND mg/L                  | 40 mg/L     | ND           | 70.0                | 130  | ----      |
|                                  |                  | chromium, total    | 7440-47-3  | E420   | 0.404 mg/L               | 0.4 mg/L    | 101          | 70.0                | 130  | ----      |
|                                  |                  | cobalt, total      | 7440-48-4  | E420   | 0.204 mg/L               | 0.2 mg/L    | 102          | 70.0                | 130  | ----      |
|                                  |                  | copper, total      | 7440-50-8  | E420   | 0.205 mg/L               | 0.2 mg/L    | 102          | 70.0                | 130  | ----      |
|                                  |                  | iron, total        | 7439-89-6  | E420   | 20.1 mg/L                | 20 mg/L     | 101          | 70.0                | 130  | ----      |
|                                  |                  | lead, total        | 7439-92-1  | E420   | 0.210 mg/L               | 0.2 mg/L    | 105          | 70.0                | 130  | ----      |
|                                  |                  | lithium, total     | 7439-93-2  | E420   | 1.06 mg/L                | 1 mg/L      | 106          | 70.0                | 130  | ----      |
|                                  |                  | magnesium, total   | 7439-95-4  | E420   | ND mg/L                  | 10 mg/L     | ND           | 70.0                | 130  | ----      |
|                                  |                  | manganese, total   | 7439-96-5  | E420   | 0.204 mg/L               | 0.2 mg/L    | 102          | 70.0                | 130  | ----      |
|                                  |                  | molybdenum, total  | 7439-98-7  | E420   | 0.198 mg/L               | 0.2 mg/L    | 99.1         | 70.0                | 130  | ----      |
|                                  |                  | nickel, total      | 7440-02-0  | E420   | 0.409 mg/L               | 0.4 mg/L    | 102          | 70.0                | 130  | ----      |
|                                  |                  | phosphorus, total  | 7723-14-0  | E420   | 98.2 mg/L                | 100 mg/L    | 98.2         | 70.0                | 130  | ----      |
|                                  |                  | potassium, total   | 7440-09-7  | E420   | 40.8 mg/L                | 40 mg/L     | 102          | 70.0                | 130  | ----      |
|                                  |                  | selenium, total    | 7782-49-2  | E420   | 0.441 mg/L               | 0.4 mg/L    | 110          | 70.0                | 130  | ----      |
|                                  |                  | silicon, total     | 7440-21-3  | E420   | 93.1 mg/L                | 100 mg/L    | 93.1         | 70.0                | 130  | ----      |
|                                  |                  | silver, total      | 7440-22-4  | E420   | 0.0415 mg/L              | 0.04 mg/L   | 104          | 70.0                | 130  | ----      |
|                                  |                  | sodium, total      | 17341-25-2 | E420   | 20.0 mg/L                | 20 mg/L     | 100          | 70.0                | 130  | ----      |
|                                  |                  | strontium, total   | 7440-24-6  | E420   | ND mg/L                  | 0.2 mg/L    | ND           | 70.0                | 130  | ----      |
|                                  |                  | sulfur, total      | 7704-34-9  | E420   | 217 mg/L                 | 200 mg/L    | 108          | 70.0                | 130  | ----      |
|                                  |                  | thallium, total    | 7440-28-0  | E420   | 0.0413 mg/L              | 0.04 mg/L   | 103          | 70.0                | 130  | ----      |
|                                  |                  | tin, total         | 7440-31-5  | E420   | 0.192 mg/L               | 0.2 mg/L    | 96.2         | 70.0                | 130  | ----      |
|                                  |                  | titanium, total    | 7440-32-6  | E420   | 0.363 mg/L               | 0.4 mg/L    | 90.6         | 70.0                | 130  | ----      |
|                                  |                  | uranium, total     | 7440-61-1  | E420   | 0.0389 mg/L              | 0.04 mg/L   | 97.2         | 70.0                | 130  | ----      |
|                                  |                  | vanadium, total    | 7440-62-2  | E420   | 1.02 mg/L                | 1 mg/L      | 102          | 70.0                | 130  | ----      |
|                                  |                  | zinc, total        | 7440-66-6  | E420   | 3.88 mg/L                | 4 mg/L      | 97.0         | 70.0                | 130  | ----      |
|                                  |                  | zirconium, total   | 7440-67-7  | E420   | 0.395 mg/L               | 0.4 mg/L    | 98.8         | 70.0                | 130  | ----      |
| Dissolved Metals (QCLot: 302823) |                  |                    |            |        |                          |             |              |                     |      |           |
| CG2104383-002                    | MICH-33.8        | mercury, dissolved | 7439-97-6  | E509   | 0.000102 mg/L            | 0.0001 mg/L | 102          | 70.0                | 130  | ----      |



Sub-Matrix: **Water**

| Sub-Matrix: Water                  |                  |                              |            |        | Matrix Spike (MS) Report |           |              |                     |      |           |
|------------------------------------|------------------|------------------------------|------------|--------|--------------------------|-----------|--------------|---------------------|------|-----------|
|                                    |                  |                              |            |        | Spike                    |           | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID               | Client sample ID | Analyte                      | CAS Number | Method | Concentration            | Target    | MS           | Low                 | High | Qualifier |
| Dissolved Metals (QCLot: 307498)   |                  |                              |            |        |                          |           |              |                     |      |           |
| CG2104383-002                      | MICH-33.8        | aluminum, dissolved          | 7429-90-5  | E421   | 1.84 mg/L                | 2 mg/L    | 91.9         | 70.0                | 130  | ----      |
|                                    |                  | antimony, dissolved          | 7440-36-0  | E421   | 0.187 mg/L               | 0.2 mg/L  | 93.7         | 70.0                | 130  | ----      |
|                                    |                  | arsenic, dissolved           | 7440-38-2  | E421   | 0.190 mg/L               | 0.2 mg/L  | 94.9         | 70.0                | 130  | ----      |
|                                    |                  | barium, dissolved            | 7440-39-3  | E421   | 0.186 mg/L               | 0.2 mg/L  | 93.1         | 70.0                | 130  | ----      |
|                                    |                  | beryllium, dissolved         | 7440-41-7  | E421   | 0.377 mg/L               | 0.4 mg/L  | 94.3         | 70.0                | 130  | ----      |
|                                    |                  | bismuth, dissolved           | 7440-69-9  | E421   | 0.0973 mg/L              | 0.1 mg/L  | 97.3         | 70.0                | 130  | ----      |
|                                    |                  | boron, dissolved             | 7440-42-8  | E421   | 0.920 mg/L               | 1 mg/L    | 92.0         | 70.0                | 130  | ----      |
|                                    |                  | cadmium, dissolved           | 7440-43-9  | E421   | 0.0389 mg/L              | 0.04 mg/L | 97.3         | 70.0                | 130  | ----      |
|                                    |                  | calcium, dissolved           | 7440-70-2  | E421   | ND mg/L                  | 40 mg/L   | ND           | 70.0                | 130  | ----      |
|                                    |                  | chromium, dissolved          | 7440-47-3  | E421   | 0.382 mg/L               | 0.4 mg/L  | 95.5         | 70.0                | 130  | ----      |
|                                    |                  | cobalt, dissolved            | 7440-48-4  | E421   | 0.191 mg/L               | 0.2 mg/L  | 95.4         | 70.0                | 130  | ----      |
|                                    |                  | copper, dissolved            | 7440-50-8  | E421   | 0.193 mg/L               | 0.2 mg/L  | 96.6         | 70.0                | 130  | ----      |
|                                    |                  | iron, dissolved              | 7439-89-6  | E421   | 18.8 mg/L                | 20 mg/L   | 94.0         | 70.0                | 130  | ----      |
|                                    |                  | lead, dissolved              | 7439-92-1  | E421   | 0.185 mg/L               | 0.2 mg/L  | 92.4         | 70.0                | 130  | ----      |
|                                    |                  | lithium, dissolved           | 7439-93-2  | E421   | 1.04 mg/L                | 1 mg/L    | 104          | 70.0                | 130  | ----      |
|                                    |                  | magnesium, dissolved         | 7439-95-4  | E421   | ND mg/L                  | 10 mg/L   | ND           | 70.0                | 130  | ----      |
|                                    |                  | manganese, dissolved         | 7439-96-5  | E421   | 0.191 mg/L               | 0.2 mg/L  | 95.5         | 70.0                | 130  | ----      |
|                                    |                  | molybdenum, dissolved        | 7439-98-7  | E421   | 0.192 mg/L               | 0.2 mg/L  | 96.0         | 70.0                | 130  | ----      |
|                                    |                  | nickel, dissolved            | 7440-02-0  | E421   | 0.381 mg/L               | 0.4 mg/L  | 95.2         | 70.0                | 130  | ----      |
|                                    |                  | phosphorus, dissolved        | 7723-14-0  | E421   | 97.5 mg/L                | 100 mg/L  | 97.5         | 70.0                | 130  | ----      |
|                                    |                  | potassium, dissolved         | 7440-09-7  | E421   | 35.7 mg/L                | 40 mg/L   | 89.3         | 70.0                | 130  | ----      |
|                                    |                  | selenium, dissolved          | 7782-49-2  | E421   | 0.374 mg/L               | 0.4 mg/L  | 93.5         | 70.0                | 130  | ----      |
|                                    |                  | silicon, dissolved           | 7440-21-3  | E421   | 89.5 mg/L                | 100 mg/L  | 89.5         | 70.0                | 130  | ----      |
|                                    |                  | silver, dissolved            | 7440-22-4  | E421   | 0.0384 mg/L              | 0.04 mg/L | 96.0         | 70.0                | 130  | ----      |
|                                    |                  | sodium, dissolved            | 17341-25-2 | E421   | 20.2 mg/L                | 20 mg/L   | 101          | 70.0                | 130  | ----      |
|                                    |                  | strontium, dissolved         | 7440-24-6  | E421   | ND mg/L                  | 0.2 mg/L  | ND           | 70.0                | 130  | ----      |
|                                    |                  | sulfur, dissolved            | 7704-34-9  | E421   | 198 mg/L                 | 200 mg/L  | 98.9         | 70.0                | 130  | ----      |
|                                    |                  | thallium, dissolved          | 7440-28-0  | E421   | 0.0344 mg/L              | 0.04 mg/L | 85.9         | 70.0                | 130  | ----      |
|                                    |                  | tin, dissolved               | 7440-31-5  | E421   | 0.180 mg/L               | 0.2 mg/L  | 90.2         | 70.0                | 130  | ----      |
|                                    |                  | titanium, dissolved          | 7440-32-6  | E421   | 0.381 mg/L               | 0.4 mg/L  | 95.3         | 70.0                | 130  | ----      |
|                                    |                  | uranium, dissolved           | 7440-61-1  | E421   | 0.0382 mg/L              | 0.04 mg/L | 95.6         | 70.0                | 130  | ----      |
|                                    |                  | vanadium, dissolved          | 7440-62-2  | E421   | 0.942 mg/L               | 1 mg/L    | 94.2         | 70.0                | 130  | ----      |
|                                    |                  | zinc, dissolved              | 7440-66-6  | E421   | 3.73 mg/L                | 4 mg/L    | 93.3         | 70.0                | 130  | ----      |
|                                    |                  | zirconium, dissolved         | 7440-67-7  | E421   | 0.397 mg/L               | 0.4 mg/L  | 99.3         | 70.0                | 130  | ----      |
| Aggregate Organics (QCLot: 304986) |                  |                              |            |        |                          |           |              |                     |      |           |
| CG2104374-010                      | Anonymous        | chemical oxygen demand [COD] | ----       | E559-L | 102 mg/L                 | 100 mg/L  | 102          | 75.0                | 125  | ----      |



| Sub-Matrix: Water                          |                  |                               |            |        | Matrix Spike (MS) Report |           |              |                     |      |           |
|--------------------------------------------|------------------|-------------------------------|------------|--------|--------------------------|-----------|--------------|---------------------|------|-----------|
|                                            |                  |                               |            |        | Spike                    |           | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                       | Client sample ID | Analyte                       | CAS Number | Method | Concentration            | Target    | MS           | Low                 | High | Qualifier |
| Volatile Organic Compounds (QCLot: 303358) |                  |                               |            |        |                          |           |              |                     |      |           |
| CG2104383-001                              | MICH-13.0        | acetone                       | 67-64-1    | E611F  | 1980 µg/L                | 2000 µg/L | 99.1         | 50.0                | 140  | ----      |
|                                            |                  | benzene                       | 71-43-2    | E611F  | 96.8 µg/L                | 100 µg/L  | 96.8         | 50.0                | 140  | ----      |
|                                            |                  | bromobenzene                  | 108-86-1   | E611F  | 83.9 µg/L                | 100 µg/L  | 83.9         | 50.0                | 140  | ----      |
|                                            |                  | bromochloromethane            | 74-97-5    | E611F  | 126 µg/L                 | 100 µg/L  | 126          | 50.0                | 140  | ----      |
|                                            |                  | bromodichloromethane          | 75-27-4    | E611F  | 124 µg/L                 | 100 µg/L  | 124          | 50.0                | 140  | ----      |
|                                            |                  | bromoform                     | 75-25-2    | E611F  | 102 µg/L                 | 100 µg/L  | 102          | 50.0                | 140  | ----      |
|                                            |                  | bromomethane                  | 74-83-9    | E611F  | 122 µg/L                 | 100 µg/L  | 122          | 50.0                | 140  | ----      |
|                                            |                  | butylbenzene, n-              | 104-51-8   | E611F  | 123 µg/L                 | 100 µg/L  | 123          | 50.0                | 140  | ----      |
|                                            |                  | butylbenzene, sec-            | 135-98-8   | E611F  | 121 µg/L                 | 100 µg/L  | 121          | 50.0                | 140  | ----      |
|                                            |                  | butylbenzene, tert-           | 98-06-6    | E611F  | 126 µg/L                 | 100 µg/L  | 126          | 50.0                | 140  | ----      |
|                                            |                  | carbon disulfide              | 75-15-0    | E611F  | 94.5 µg/L                | 140 µg/L  | 67.5         | 50.0                | 140  | ----      |
|                                            |                  | carbon tetrachloride          | 56-23-5    | E611F  | 128 µg/L                 | 100 µg/L  | 128          | 50.0                | 140  | ----      |
|                                            |                  | chlorobenzene                 | 108-90-7   | E611F  | 127 µg/L                 | 100 µg/L  | 127          | 50.0                | 140  | ----      |
|                                            |                  | chloroethane                  | 75-00-3    | E611F  | 74.3 µg/L                | 100 µg/L  | 74.3         | 50.0                | 140  | ----      |
|                                            |                  | chloroform                    | 67-66-3    | E611F  | 110 µg/L                 | 100 µg/L  | 110          | 50.0                | 140  | ----      |
|                                            |                  | chloromethane                 | 74-87-3    | E611F  | 95.0 µg/L                | 100 µg/L  | 95.0         | 50.0                | 140  | ----      |
|                                            |                  | chlorotoluene, 2-             | 95-49-8    | E611F  | 128 µg/L                 | 100 µg/L  | 128          | 50.0                | 140  | ----      |
|                                            |                  | chlorotoluene, 4-             | 106-43-4   | E611F  | 120 µg/L                 | 100 µg/L  | 120          | 50.0                | 140  | ----      |
|                                            |                  | cymene, p-                    | 99-87-6    | E611F  | 118 µg/L                 | 100 µg/L  | 118          | 50.0                | 140  | ----      |
|                                            |                  | dibromo-3-chloropropane, 1,2- | 96-12-8    | E611F  | 112 µg/L                 | 100 µg/L  | 112          | 50.0                | 140  | ----      |
|                                            |                  | dibromochloromethane          | 124-48-1   | E611F  | 106 µg/L                 | 100 µg/L  | 106          | 50.0                | 140  | ----      |
|                                            |                  | dibromoethane, 1,2-           | 106-93-4   | E611F  | 85.7 µg/L                | 100 µg/L  | 85.7         | 50.0                | 140  | ----      |
|                                            |                  | dibromomethane                | 74-95-3    | E611F  | 119 µg/L                 | 100 µg/L  | 119          | 50.0                | 140  | ----      |
|                                            |                  | dichlorobenzene, 1,2-         | 95-50-1    | E611F  | 103 µg/L                 | 100 µg/L  | 103          | 50.0                | 140  | ----      |
|                                            |                  | dichlorobenzene, 1,3-         | 541-73-1   | E611F  | 116 µg/L                 | 100 µg/L  | 116          | 50.0                | 140  | ----      |
|                                            |                  | dichlorobenzene, 1,4-         | 106-46-7   | E611F  | 99.3 µg/L                | 100 µg/L  | 99.3         | 50.0                | 140  | ----      |
|                                            |                  | dichlorodifluoromethane       | 75-71-8    | E611F  | 129 µg/L                 | 100 µg/L  | 129          | 50.0                | 140  | ----      |
|                                            |                  | dichloroethane, 1,1-          | 75-34-3    | E611F  | 120 µg/L                 | 100 µg/L  | 120          | 50.0                | 140  | ----      |
|                                            |                  | dichloroethane, 1,2-          | 107-06-2   | E611F  | 117 µg/L                 | 100 µg/L  | 117          | 50.0                | 140  | ----      |
|                                            |                  | dichloroethylene, 1,1-        | 75-35-4    | E611F  | 97.2 µg/L                | 100 µg/L  | 97.2         | 50.0                | 140  | ----      |
|                                            |                  | dichloroethylene, cis-1,2-    | 156-59-2   | E611F  | 106 µg/L                 | 100 µg/L  | 106          | 50.0                | 140  | ----      |
|                                            |                  | dichloroethylene, trans-1,2-  | 156-60-5   | E611F  | 99.4 µg/L                | 100 µg/L  | 99.4         | 50.0                | 140  | ----      |
|                                            |                  | dichloromethane               | 75-09-2    | E611F  | 116 µg/L                 | 100 µg/L  | 116          | 50.0                | 140  | ----      |
|                                            |                  | dichloropropane, 1,2-         | 78-87-5    | E611F  | 106 µg/L                 | 100 µg/L  | 106          | 50.0                | 140  | ----      |
|                                            |                  | dichloropropane, 1,3-         | 142-28-9   | E611F  | 128 µg/L                 | 100 µg/L  | 128          | 50.0                | 140  | ----      |
|                                            |                  | dichloropropane, 2,2-         | 594-20-7   | E611F  | 112 µg/L                 | 100 µg/L  | 112          | 50.0                | 140  | ----      |
|                                            |                  | dichloropropylene, 1,1-       | 563-58-6   | E611F  | 128 µg/L                 | 100 µg/L  | 128          | 50.0                | 140  | ----      |



| Sub-Matrix: Water                                      |                  |                                |             |        | Matrix Spike (MS) Report |            |              |                     |      |           |
|--------------------------------------------------------|------------------|--------------------------------|-------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                                        |                  |                                |             |        | Spike                    |            | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                   | Client sample ID | Analyte                        | CAS Number  | Method | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| Volatile Organic Compounds (QCLot: 303358) - continued |                  |                                |             |        |                          |            |              |                     |      |           |
| CG2104383-001                                          | MICH-13.0        | dichloropropylene, cis-1,3-    | 10061-01-5  | E611F  | 109 µg/L                 | 100 µg/L   | 109          | 50.0                | 140  | ----      |
|                                                        |                  | dichloropropylene, trans-1,3-  | 10061-02-6  | E611F  | 116 µg/L                 | 100 µg/L   | 116          | 50.0                | 140  | ----      |
|                                                        |                  | ethylbenzene                   | 100-41-4    | E611F  | 109 µg/L                 | 100 µg/L   | 109          | 50.0                | 140  | ----      |
|                                                        |                  | hexachlorobutadiene            | 87-68-3     | E611F  | 89.2 µg/L                | 100 µg/L   | 89.2         | 50.0                | 140  | ----      |
|                                                        |                  | hexane, n-                     | 110-54-3    | E611F  | 80.9 µg/L                | 100 µg/L   | 80.9         | 50.0                | 140  | ----      |
|                                                        |                  | hexanone, 2-                   | 591-78-6    | E611F  | 496 µg/L                 | 400.6 µg/L | 124          | 50.0                | 140  | ----      |
|                                                        |                  | isopropylbenzene               | 98-82-8     | E611F  | 122 µg/L                 | 100 µg/L   | 122          | 50.0                | 140  | ----      |
|                                                        |                  | methyl ethyl ketone [MEK]      | 78-93-3     | E611F  | 1980 µg/L                | 2000 µg/L  | 99.2         | 50.0                | 140  | ----      |
|                                                        |                  | methyl isobutyl ketone [MIBK]  | 108-10-1    | E611F  | 395 µg/L                 | 401.4 µg/L | 98.5         | 50.0                | 140  | ----      |
|                                                        |                  | methyl-tert-butyl ether [MTBE] | 1634-04-4   | E611F  | 120 µg/L                 | 100 µg/L   | 120          | 50.0                | 140  | ----      |
|                                                        |                  | naphthalene                    | 91-20-3     | E611F  | 85.8 µg/L                | 100 µg/L   | 85.8         | 50.0                | 140  | ----      |
|                                                        |                  | propylbenzene, n-              | 103-65-1    | E611F  | 118 µg/L                 | 100 µg/L   | 118          | 50.0                | 140  | ----      |
|                                                        |                  | styrene                        | 100-42-5    | E611F  | 100 µg/L                 | 100 µg/L   | 100          | 50.0                | 140  | ----      |
|                                                        |                  | tetrachloroethane, 1,1,1,2-    | 630-20-6    | E611F  | 124 µg/L                 | 100 µg/L   | 124          | 50.0                | 140  | ----      |
|                                                        |                  | tetrachloroethane, 1,1,2,2-    | 79-34-5     | E611F  | 80.0 µg/L                | 100 µg/L   | 80.0         | 50.0                | 140  | ----      |
|                                                        |                  | tetrachloroethylene            | 127-18-4    | E611F  | 124 µg/L                 | 100 µg/L   | 124          | 50.0                | 140  | ----      |
|                                                        |                  | toluene                        | 108-88-3    | E611F  | 95.5 µg/L                | 100 µg/L   | 95.5         | 50.0                | 140  | ----      |
|                                                        |                  | trichlorobenzene, 1,2,3-       | 87-61-6     | E611F  | 84.0 µg/L                | 100 µg/L   | 84.0         | 50.0                | 140  | ----      |
|                                                        |                  | trichlorobenzene, 1,2,4-       | 120-82-1    | E611F  | 128 µg/L                 | 100 µg/L   | 128          | 50.0                | 140  | ----      |
|                                                        |                  | trichloroethane, 1,1,1-        | 71-55-6     | E611F  | 110 µg/L                 | 100 µg/L   | 110          | 50.0                | 140  | ----      |
|                                                        |                  | trichloroethane, 1,1,2-        | 79-00-5     | E611F  | 123 µg/L                 | 100 µg/L   | 123          | 50.0                | 140  | ----      |
|                                                        |                  | trichloroethylene              | 79-01-6     | E611F  | 121 µg/L                 | 100 µg/L   | 121          | 50.0                | 140  | ----      |
|                                                        |                  | trichlorofluoromethane         | 75-69-4     | E611F  | 86.1 µg/L                | 100 µg/L   | 86.1         | 50.0                | 140  | ----      |
|                                                        |                  | trichloropropane, 1,2,3-       | 96-18-4     | E611F  | 126 µg/L                 | 100 µg/L   | 126          | 50.0                | 140  | ----      |
|                                                        |                  | trimethylbenzene, 1,2,4-       | 95-63-6     | E611F  | 124 µg/L                 | 100 µg/L   | 124          | 50.0                | 140  | ----      |
|                                                        |                  | trimethylbenzene, 1,3,5-       | 108-67-8    | E611F  | 127 µg/L                 | 100 µg/L   | 127          | 50.0                | 140  | ----      |
|                                                        |                  | vinyl chloride                 | 75-01-4     | E611F  | 90.0 µg/L                | 100 µg/L   | 90.0         | 50.0                | 140  | ----      |
|                                                        |                  | xylene, m+p-                   | 179601-23-1 | E611F  | 253 µg/L                 | 200 µg/L   | 126          | 50.0                | 140  | ----      |
|                                                        |                  | xylene, o-                     | 95-47-6     | E611F  | 113 µg/L                 | 100 µg/L   | 113          | 50.0                | 140  | ----      |

