AECOM

# Operation, Maintenance and Monitoring Report
# February 2019

# NOW Corporation
# NYSDEC Site No. 3-14-008

# Work Assignment No.
# D007626-25

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

AECOM Technical Services Northeast, Inc.
40 British American Boulevard
Latham, New York 12110

April 2019

AECOM

April 5, 2019

Mr. Robert Strang
NYSDEC Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

**Re: NOW Corporation - Site No. 3-14-008**
**O&M Summary Report: February 2019**

Dear Mr. Strang:

This monthly summary report describes the operation, maintenance and monitoring (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 35-day period (**January 17 – February 21, 2019).**

With the exceptions noted below, if any, the pump and treat system was online and operational throughout the reporting period. Approximately 512,900 gallons of water were treated. Discharge from the treatment system averaged approximately 14,700 gallons per day (gpd).

As of the last day of the reporting period, a total of 114,910,000 gallons of groundwater had been recovered and treated by the system since it became operational in February 1998.

Table 1 summarizes influent and effluent analytical data for water samples collected on February 21, 2019. **There were no exceedances of effluent limitations.** A copy of the analytical laboratory report is attached. Total VOCs in the most contaminated extraction well (TW-2A) was 936 ug/L; last month's value was 960 ug/L.

Table 2 presents selected operational data recorded on the sampling date.

There was no downtime during the reporting period. Pumps in recovery wells were operational throughout the period.

AECOM made one site visit to conduct the required system inspection, perform scheduled and unscheduled maintenance, and to collect water samples. Details for the current period follow:

February 21 – Performed monthly system inspection and influent and effluent sampling. Turned all recovery well pumps off to allow recharge prior to sampling to ensure all recovery wells were contributing to effluent and total influent samples. Removed snow to gain access to building interior. Confirmed proper operation of heat tape on exposed portion of outdoor effluent line.

The VFD regulating the stripper blower was at 60 Hz throughout the reporting period, and remained at that setting upon departure.

Please feel free to contact me at (518) 951-2262, or at stephen.choiniere@aecom.com if you have any questions or comments regarding this report or the operation of the treatment system.

Sincerely,
AECOM Technical Services Northeast, Inc.

Stephen R. Choiniere
Project Manager

# Table 1
## Summary of Influent and Effluent Data
## Sampling Date: February 21, 2019
## NOW Corporation Site
## NYSDEC Site No. 3-14-008
## Town of Clinton, New York

| Analytes/ Parameters | Total Influent | Effluent | Recovery Wells | | | Effluent Limitations | (units) |
|---|---|---|---|---|---|---|---|
| | | | TW-1 | TW-2A | TW-3 | | |
| Quantity treated, avg per day | | 14,653 | | | | Monitor | gallons |
| pH | 7.2 | 7.0 | | | | 6.5 to 8.5 | standard units |
| Oil and Grease | <1.6 | <1.6 | NA | NA | NA | 15 | mg/L |
| Total Cyanide | <0.010 | <0.010 | NA | NA | NA | 0.01 | mg/L |
| TDS | **208** | **176** | NA | NA | NA | 1000 | mg/L |
| TSS | **3.28** | <3 | NA | NA | NA | 50 | mg/L |
| Aluminum, Total | **60.0 J** | <400 | NA | NA | NA | Monitor | ug/L |
| Arsenic, Total | **0.87 J** | <2.0 | NA | NA | NA | 100 | ug/L |
| Barium, Total | **71.2** | **70.0** | NA | NA | NA | Monitor | ug/L |
| Chromium | **3.1 J** | **1.6 J** | NA | NA | NA | 400 | ug/L |
| Copper | **18.6 J** | <40.0 | NA | NA | NA | 24 | ug/L |
| Iron | **1,490** | <100 | NA | NA | NA | 600 | ug/L |
| Mercury | <0.20 | <0.20 | NA | NA | NA | 0.8 | ug/L |
| Manganese | **1,100** | **31.6** | NA | NA | NA | Monitor | ug/L |
| Nickel | **7.6** | **2.2 J** | NA | NA | NA | 200 | ug/L |
| Zinc | **18.5** | <15.0 | NA | NA | NA | 150 | ug/L |
| 1,1,1-Trichloroethane | **530** | <1 | **1** | **570** | **9** | 10 | ug/L |
| 1,1,2-Trichloroethane | **0.3 J** | <1 | <1 | <1 | <1 | 1.2 | ug/L |
| 1,1-Dichloroethane | **120** | <1 | **22** | **84** | **6** | 10 | ug/L |
| 1,1-Dichloroethene | **12** | <1 | **8** | **10** | **1** | 0.5 | ug/L |
| 1,2-Dichloroethane | **0.4 J** | <1 | <1 | **0.4 J** | <1 | 1.6 | ug/L |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | NL | ug/L |
| Benzene | <1 | <1 | <1 | <1 | <1 | 1.4 | ug/L |
| Chlorobenzene | <1 | <1 | <1 | <1 | <1 | 10 | ug/L |
| Chloroethane | **0.3 J** | <1 | <1 | **0.3 J** | **0.4 J** | 10 | ug/L |
| *cis* -1,2-Dichloroethene | **7** | <1 | **3** | **11** | **0.5 J** | 5 | ug/L |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 | 10 | ug/L |
| o-Xylene | <1 | <1 | <1 | <1 | <1 | 5 | ug/L |
| m,p-Xylene | <5 | <5 | <5 | <5 | <5 | 10 | ug/L |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | 1.4 | ug/L |
| Tertrahydrofuran | <10 | **1 J** | <10 | <10 | <10 | NL | ug/L |
| Toluene | <1 | <1 | <1 | <1 | <1 | 10 | ug/L |
| Trichloroethene | **210** | **0.3 J** | **38** | **260** | **13** | 6 | ug/L |
| Vinyl Chloride | <1 | <1 | <1 | **0.4 J** | <1 | 0.6 | ug/L |

*Notes:*

*1) Detected concentrations are presented in **bold** typeface, and are expressed in the units shown in far right column.*

*2) Effluent concentration boxed in **bold** denotes exceedance of effluent limitations.*

*3) NA indicates not analyzed.*

*4) "**J**" indicates an estimated concentration below the reporting limit (RL).*

*5) "**B**" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.*

*6) "**D**" indicates result from a diluted sample.*

*7) NL indicates no effluent limitations specified.*

# Table 2
# Summary of February 2019 O&M Data

**NOW Corporation Site**
**Town of Clinton, New York**

| **Instrumentation/Readings:** | | **2/21/19** | **Units** |
|---|---|---|---|
| ***TW-1*** | | | |
| | Pumping Rate | 0 | GPM |
| | Water Level Above Transducer | 14.98 | feet |
| | Flow Meter Reading | 9,301,900 | gallons |
| | Pump Pressure | 0 | psi |
| ***TW-2A*** | | | |
| | Pumping Rate | 12 | GPM |
| | Water Level Above Transducer | 30.08 | feet |
| | Flow Meter Reading | 18,396,300 | gallons |
| | Pump Pressure | 0 | psi |
| ***TW-3*** | | | |
| | Pumping Rate | 4 | GPM |
| | Water Level Above Transducer | 25.68 | feet |
| | Flow Meter Reading | 16,279,800 | gallons |
| | Pump Pressure | 0 | psi |
| ***VFD Setting*** | Arrival | 60 | Hz |
| | Departure | 60 | Hz |
| ***Air Stripper*** | | | |
| | Stripper Blower Pressure | 13 | inches $H_2O$ |
| | Air Temperature in Stripper | 50 | °F |
| ***Effluent Flow*** | | | |
| | Effluent Flow this period | 512,862 | gallons |
| | Total Effluent Flow | 114,909,996 | gallons |

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
08-Mar-19 11:03

# *Laboratory Report*
# SC53632

AECOM Environment
40 British American Boulevard
Latham, NY 12110
Attn: Stephen Choiniere

Project: Now Corp - Staatsburg, NY
Project #: 60276639.1

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Andrew Fenton
Quality Services Manager

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 37 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

*Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).*

*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*

## Sample Summary

**Work Order:** SC53632

**Project:** Now Corp - Staatsburg, NY

**Project Number:** 60276639.1

| Laboratory ID | Client Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| SC53632-01 | EFF 60 022119 | Ground Water | 21-Feb-19 12:30 | 22-Feb-19 12:00 |
| SC53632-02 | INF 022119 | Ground Water | 21-Feb-19 12:23 | 22-Feb-19 12:00 |
| SC53632-03 | TW-1 022119 | Ground Water | 21-Feb-19 12:20 | 22-Feb-19 12:00 |
| SC53632-04 | TW-2A 022119 | Ground Water | 21-Feb-19 12:40 | 22-Feb-19 12:00 |
| SC53632-05 | TW-3 022119 | Ground Water | 21-Feb-19 12:37 | 22-Feb-19 12:00 |
| SC53632-06 | TB 022119 | Trip Blank | 21-Feb-19 00:00 | 22-Feb-19 12:00 |

**CASE NARRATIVE:**

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

**See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.**

## SW-846 6020A

**Samples:**

SC53632-01 *EFF 60 022119*

Initial Calibration Verification is above QC limit and the sample result is ND

Aluminum

## SW-846 8260C

**Samples:**

SC53632-02 *INF 022119*

Exceeded calibration range of the instrument

1,1,1-Trichloroethane

SC53632-04 *TW-2A 022119*

Exceeded calibration range of the instrument

1,1,1-Trichloroethane

## Sample Acceptance Check Form

| | |
|---|---|
| Client: | AECOM Environment - Latham, NY |
| Project: | Now Corp - Staatsburg, NY / 60276639.1 |
| Work Order: | SC53632 |
| Sample(s) received on: | 2/22/2019 |

***The following outlines the condition of samples for the attached Chain of Custody upon receipt.***

| | Yes | No | N/A |
|---|---|---|---|
| Were custody seals present? | ☑ | ☐ | ☐ |
| Were custody seals intact? | ☑ | ☐ | ☐ |
| Were samples received at a temperature of ≤ 6°C? | ☑ | ☐ | ☐ |
| Were samples cooled on ice upon transfer to laboratory representative? | ☑ | ☐ | ☐ |
| Were sample containers received intact? | ☑ | ☐ | ☐ |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | ☑ | ☐ | ☐ |
| Were samples accompanied by a Chain of Custody document? | ☑ | ☐ | ☐ |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | ☑ | ☐ | ☐ |
| Did sample container labels agree with Chain of Custody document? | ☑ | ☐ | ☐ |
| Were samples received within method-specific holding times? | ☑ | ☐ | ☐ |

## Summary of Hits

**Lab ID:** SC53632-01 **Client ID:** EFF 60 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| Total Dissolved Solids | 176 | | 60.0 | mg/l | SM 2540 C |
| Barium | 0.0700 | | 0.0040 | mg/l | SW-846 6020A |
| Chromium | 0.0016 | J | 0.0040 | mg/l | SW-846 6020A |
| Manganese | 0.0316 | | 0.0100 | mg/l | SW-846 6020A |
| Nickel | 0.0022 | J | 0.0040 | mg/l | SW-846 6020A |
| Acetone | 1 | J | 20 | ug/l | SW-846 8260C |
| Tetrahydrofuran | 1 | J | 10 | ug/l | SW-846 8260C |
| Trichloroethene | 0.3 | J | 1 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-02 **Client ID:** INF 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| Total Dissolved Solids | 208 | | 60.0 | mg/l | SM 2540 C |
| Total Suspended Solids | 3.28 | | 3.00 | mg/l | SM 2540 D |
| Aluminum | 0.0600 | J | 0.400 | mg/l | SW-846 6020A |
| Arsenic | 0.00087 | J | 0.0020 | mg/l | SW-846 6020A |
| Barium | 0.0712 | | 0.0040 | mg/l | SW-846 6020A |
| Chromium | 0.0031 | J | 0.0040 | mg/l | SW-846 6020A |
| Copper | 0.0186 | J | 0.0400 | mg/l | SW-846 6020A |
| Iron | 1.49 | | 0.100 | mg/l | SW-846 6020A |
| Manganese | 1.10 | | 0.0100 | mg/l | SW-846 6020A |
| Nickel | 0.0076 | | 0.0040 | mg/l | SW-846 6020A |
| Zinc | 0.0185 | | 0.0150 | mg/l | SW-846 6020A |
| 1,1,1-Trichloroethane | 780 | E. | 1 | ug/l | SW-846 8260C |
| 1,1,2-Trichloroethane | 0.3 | J | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 120 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethene | 12 | | 1 | ug/l | SW-846 8260C |
| 1,2-Dichloroethane | 0.4 | J | 1 | ug/l | SW-846 8260C |
| Acetone | 0.9 | J | 20 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 7 | | 1 | ug/l | SW-846 8260C |
| Trichloroethene | 210 | | 1 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-02RE01 **Client ID:** INF 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 530 | | 10 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 84 | | 10 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 5 | J | 10 | ug/l | SW-846 8260C |
| Trichloroethene | 160 | | 10 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-03 **Client ID:** TW-1 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 22 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethene | 8 | | 1 | ug/l | SW-846 8260C |
| Acetone | 0.7 | J | 20 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 3 | | 1 | ug/l | SW-846 8260C |
| Trichloroethene | 38 | | 1 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-04 **Client ID:** TW-2A 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 660 | E. | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 84 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethene | 10 | | 1 | ug/l | SW-846 8260C |
| 1,2-Dichloroethane | 0.4 | J | 1 | ug/l | SW-846 8260C |
| Chloroethane | 0.3 | J | 1 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 11 | | 1 | ug/l | SW-846 8260C |
| Trichloroethene | 260 | | 1 | ug/l | SW-846 8260C |
| Vinyl Chloride | 0.4 | J | 1 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-04RE01 **Client ID:** TW-2A 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 570 | | 10 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 77 | | 10 | ug/l | SW-846 8260C |
| 1,1-Dichloroethene | 7 | J | 10 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 10 | J | 10 | ug/l | SW-846 8260C |
| Trichloroethene | 230 | | 10 | ug/l | SW-846 8260C |

**Lab ID:** SC53632-05 **Client ID:** TW-3 022119

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 9 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethane | 6 | | 1 | ug/l | SW-846 8260C |
| 1,1-Dichloroethene | 1 | | 1 | ug/l | SW-846 8260C |
| Chloroethane | 0.4 | J | 1 | ug/l | SW-846 8260C |
| cis-1,2-Dichloroethene | 0.5 | J | 1 | ug/l | SW-846 8260C |
| Trichloroethene | 13 | | 1 | ug/l | SW-846 8260C |

*Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.*

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **EFF 60 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:30 | 22-Feb-19 |
| SC53632-01 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 200/6000 Series Methods** | | | | | | | | | | | | | |
| Prepared by method General Prep-Metal | | | | | | | | | | | | | |
| | Preservation | **Field Preserved; pH<2 confirmed** | | N/A | | | 1 | EPA 200/6000 methods | 22-Feb-19 | | ABW | 1900248 | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Prepared by method E1664A | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| | Oil and Grease by EPA 1664A | < 1.6 | | mg/l | 1.6 | 1.6 | 1.1 | E1664A | 26-Feb-19 08:29 | 26-Feb-19 08:29 | 11301 | 468234A | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Prepared by method General Preparation | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| | Total Dissolved Solids | **176** | | mg/l | 60.0 | 20.0 | 1 | SM 2540 C | 26-Feb-19 14:10 | 26-Feb-19 14:10 | 10670 | 05796490 | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| | Total Suspended Solids | < 3.00 | | mg/l | 3.00 | 1.00 | 1 | SM 2540 D | 26-Feb-19 13:09 | 26-Feb-19 13:09 | 10670 | 05738580 | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| Prepared by method SW-846 3020A | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | < 0.400 | K3 | mg/l | 0.400 | 0.0197 | 1 | SW-846 6020A | 06-Mar-19 11:05 | 06-Mar-19 22:40 | 10670 | 06414047( | |
| 7440-38-2 | Arsenic | < 0.0020 | | mg/l | 0.0020 | 0.00068 | 1 | " | " | " | " | " | |
| 7440-39-3 | Barium | **0.0700** | | mg/l | 0.0040 | 0.00075 | 1 | " | " | " | " | " | |
| 7440-47-3 | Chromium | **0.0016** | J | mg/l | 0.0040 | 0.00070 | 1 | " | " | " | " | " | |
| 7440-50-8 | Copper | < 0.0400 | | mg/l | 0.0400 | 0.0099 | 1 | " | " | " | " | " | |
| 7439-89-6 | Iron | < 0.100 | | mg/l | 0.100 | 0.0228 | 1 | " | " | " | " | " | |
| 7439-96-5 | Manganese | **0.0316** | | mg/l | 0.0100 | 0.0049 | 1 | " | " | " | " | " | |
| 7440-02-0 | Nickel | **0.0022** | J | mg/l | 0.0040 | 0.00060 | 1 | " | " | " | " | " | |
| 7440-66-6 | Zinc | < 0.0150 | | mg/l | 0.0150 | 0.0062 | 1 | " | " | " | " | " | |
| Prepared by method METHOD | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | < 0.00020 | | mg/l | 0.00020 | 0.000050 | 1 | SW-846 7470A | 28-Feb-19 07:27 | 01-Mar-19 06:41 | 10670 | 05905713 | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 14:49 | 28-Feb-19 14:50 | 10670 | 190591A/ | |
| 71-55-6 | 1,1,1-Trichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **EFF 60 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:30 | 22-Feb-19 |
| SC53632-01 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | SW-846 8260C | 28-Feb-19 14:49 | 28-Feb-19 14:50 | 10670 | 190591A | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | 1 | J | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-59-2 | cis-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **EFF 60 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:30 | 22-Feb-19 |
| SC53632-01 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | SW-846 8260C | 28-Feb-19 14:49 | 28-Feb-19 14:50 | 10670 | 190591A | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | 1 | J | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | 0.3 | J | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *102* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *101* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *105* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | | *80-120 %* | | | " | " | " | " | " | |
| Prepared by method METHOD | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 57-12-5 | Total Cyanide (water) | < 0.010 | | mg/l | 0.010 | 0.0050 | 1 | SW-846 9012B | 27-Feb-19 16:30 | 28-Feb-19 13:21 | 10670 | 05811710 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **INF 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:23 | 22-Feb-19 |
| SC53632-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 200/6000 Series Methods** | | | | | | | | | | | | | |
| Prepared by method General Prep-Metal | | | | | | | | | | | | | |
| | Preservation | **Field Preserved; pH<2 confirmed** | | N/A | | | 1 | EPA 200/6000 methods | 22-Feb-19 | | ABW | 1900248 | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Prepared by method E1664A | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| | Oil and Grease by EPA 1664A | < 1.6 | | mg/l | 1.6 | 1.6 | 1.1 | E1664A | 26-Feb-19 08:30 | 26-Feb-19 08:30 | 11301 | 468234A | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Prepared by method General Preparation | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| | Total Dissolved Solids | **208** | | mg/l | 60.0 | 20.0 | 1 | SM 2540 C | 26-Feb-19 14:10 | 26-Feb-19 14:10 | 10670 | 05796490 | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| | Total Suspended Solids | **3.28** | | mg/l | 3.00 | 1.00 | 1 | SM 2540 D | 26-Feb-19 13:09 | 26-Feb-19 13:09 | 10670 | 05738580 | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| Prepared by method SW-846 3020A | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | **0.0600** | J | mg/l | 0.400 | 0.0197 | 1 | SW-846 6020A | 06-Mar-19 11:05 | 06-Mar-19 22:43 | 10670 | 6414047( | |
| 7440-38-2 | Arsenic | **0.00087** | J | mg/l | 0.0020 | 0.00068 | 1 | " | " | " | " | " | |
| 7440-39-3 | Barium | **0.0712** | | mg/l | 0.0040 | 0.00075 | 1 | " | " | " | " | " | |
| 7440-47-3 | Chromium | **0.0031** | J | mg/l | 0.0040 | 0.00070 | 1 | " | " | " | " | " | |
| 7440-50-8 | Copper | **0.0186** | J | mg/l | 0.0400 | 0.0099 | 1 | " | " | " | " | " | |
| 7439-89-6 | Iron | **1.49** | | mg/l | 0.100 | 0.0228 | 1 | " | " | " | " | " | |
| 7439-96-5 | Manganese | **1.10** | | mg/l | 0.0100 | 0.0049 | 1 | " | " | " | " | " | |
| 7440-02-0 | Nickel | **0.0076** | | mg/l | 0.0040 | 0.00060 | 1 | " | " | " | " | " | |
| 7440-66-6 | Zinc | **0.0185** | | mg/l | 0.0150 | 0.0062 | 1 | " | " | " | " | " | |
| Prepared by method METHOD | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | < 0.00020 | | mg/l | 0.00020 | 0.000050 | 1 | SW-846 7470A | 28-Feb-19 07:27 | 01-Mar-19 06:43 | 10670 | 05905713 | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 15:10 | 28-Feb-19 15:11 | 10670 | 190591A/ | |
| 71-55-6 | 1,1,1-Trichloroethane | **780** | E. | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | **0.3** | J | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | **120** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | **12** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **INF 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:23 | 22-Feb-19 |
| SC53632-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | SW-846 8260C | 28-Feb-19 15:10 | 28-Feb-19 15:11 | 10670 | 190591A | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | **0.4** | J | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | **0.9** | J | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-59-2 | cis-1,2-Dichloroethene | **7** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | SW-846 8260C | 28-Feb-19 15:10 | 28-Feb-19 15:11 | 10670 | 190591A | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 10 | | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **210** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *102* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *109* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | | *80-120 %* | | | " | " | " | " | " | |
| Re-analysis of Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2 | 10 | SW-846 8260C | 04-Mar-19 12:10 | 04-Mar-19 12:11 | 10670 | 190631A | |
| 71-55-6 | 1,1,1-Trichloroethane | **530** | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | **84** | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 50 | | ug/l | 50 | 4 | 10 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **INF 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:23 | 22-Feb-19 |
| SC53632-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses | | | | | | | | | | | | | |
| 95-50-1 | 1,2-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | SW-846 8260C | 04-Mar-19 12:10 | 04-Mar-19 12:11 | 10670 | 190631A | |
| 107-06-2 | 1,2-Dichloroethane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 2500 | | ug/l | 2500 | 290 | 10 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 100 | | ug/l | 100 | 3 | 10 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 100 | | ug/l | 100 | 3 | 10 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 100 | | ug/l | 100 | 5 | 10 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 200 | | ug/l | 200 | 7 | 10 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 200 | | ug/l | 200 | 3 | 10 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 40 | | ug/l | 40 | 2 | 10 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 156-59-2 | cis-1,2-Dichloroethene | 5 | J | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 7500 | | ug/l | 7500 | 2800 | 10 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 10 | | ug/l | 10 | 4 | 10 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 100 | | ug/l | 100 | 2 | 10 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 50 | | ug/l | 50 | 7 | 10 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **INF 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:23 | 22-Feb-19 |
| SC53632-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses | | | | | | | | | | | | | |
| 75-09-2 | Methylene Chloride | < 10 | | ug/l | 10 | 3 | 10 | SW-846 8260C | 04-Mar-19 12:10 | 04-Mar-19 12:11 | 10670 | 190631A/ | |
| 91-20-3 | Naphthalene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 10 | | ug/l | 10 | 4 | 10 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 50 | | ug/l | 50 | 8 | 10 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 500 | | ug/l | 500 | 120 | 10 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 100 | | ug/l | 100 | 7 | 10 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 500 | | ug/l | 500 | 60 | 10 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **160** | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *103* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *107* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *97* | | | *80-120 %* | | | " | " | " | " | " | |
| Prepared by method METHOD | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 57-12-5 | Total Cyanide (water) | < 0.010 | | mg/l | 0.010 | 0.0050 | 1 | SW-846 9012B | 27-Feb-19 16:30 | 28-Feb-19 13:23 | 10670 | 05811710 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-1 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:20 | 22-Feb-19 |
| SC53632-03 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 15:32 | 28-Feb-19 15:33 | 10670 | 190591A/ | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | 22 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | 8 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | 0.7 | J | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-1 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:20 | 22-Feb-19 |
| SC53632-03 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 3 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 15:32 | 28-Feb-19 15:33 | 10670 | 190591A | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 10 | | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | 38 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *101* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *104* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *97* | | | *80-120 %* | | | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-2A 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:40 | 22-Feb-19 |
| SC53632-04 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 16:16 | 28-Feb-19 16:17 | 10670 | 190591A | |
| 71-55-6 | 1,1,1-Trichloroethane | **660** | E. | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | **84** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | **10** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | **0.4** | J | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 20 | | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | **0.3** | J | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |

**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | **11** | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 16:16 | 28-Feb-19 16:17 | 10670 | 190591A | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 10 | | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **260** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | **0.4** | J | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |

*Surrogate recoveries:*

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *17060-07-0* | *1,2-Dichloroethane-d4* | *102* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *106* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | | *80-120 %* | | | " | " | " | " | " | |

Re-analysis of Subcontracted Analyses
Prepared by method SW-846 5030C

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-2A 022119**<br>SC53632-04 | 60276639.1 | Ground Water | 21-Feb-19 12:40 | 22-Feb-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2 | 10 | SW-846 8260C | 28-Feb-19 16:38 | 28-Feb-19 16:39 | 10670 | 190591A/ | |
| 71-55-6 | 1,1,1-Trichloroethane | **570** | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | **77** | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | **7** | J | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 50 | | ug/l | 50 | 4 | 10 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 2500 | | ug/l | 2500 | 290 | 10 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 100 | | ug/l | 100 | 3 | 10 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 100 | | ug/l | 100 | 3 | 10 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 100 | | ug/l | 100 | 5 | 10 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 200 | | ug/l | 200 | 7 | 10 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 200 | | ug/l | 200 | 3 | 10 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 40 | | ug/l | 40 | 2 | 10 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-2A 022119** | 60276639.1 | Ground Water | 21-Feb-19 12:40 | 22-Feb-19 |
| SC53632-04 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses | | | | | | | | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | **10** | J | ug/l | 10 | 2 | 10 | SW-846 8260C | 28-Feb-19 16:38 | 28-Feb-19 16:39 | 10670 | 190591A | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 7500 | | ug/l | 7500 | 2800 | 10 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 10 | | ug/l | 10 | 4 | 10 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 100 | | ug/l | 100 | 2 | 10 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 50 | | ug/l | 50 | 7 | 10 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 10 | | ug/l | 10 | 3 | 10 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 10 | | ug/l | 10 | 4 | 10 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 50 | | ug/l | 50 | 2 | 10 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 50 | | ug/l | 50 | 8 | 10 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 500 | | ug/l | 500 | 120 | 10 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 50 | | ug/l | 50 | 3 | 10 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 100 | | ug/l | 100 | 7 | 10 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 500 | | ug/l | 500 | 60 | 10 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **230** | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 10 | | ug/l | 10 | 2 | 10 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *101* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *105* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *97* | | | *80-120 %* | | | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-3 022119**<br>SC53632-05 | 60276639.1 | Ground Water | 21-Feb-19 12:37 | 22-Feb-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 15:54 | 28-Feb-19 15:55 | 10670 | 190591A | |
| 71-55-6 | 1,1,1-Trichloroethane | **9** | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | **6** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | **1** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 20 | | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | **0.4** | J | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TW-3 022119**<br>SC53632-05 | 60276639.1 | Ground Water | 21-Feb-19 12:37 | 22-Feb-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | **0.5** | J | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 15:54 | 28-Feb-19 15:55 | 10670 | 190591A | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 10 | | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **13** | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *102* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *103* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *97* | | | *80-120 %* | | | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TB 022119**<br>SC53632-06 | 60276639.1 | Trip Blank | 21-Feb-19 00:00 | 22-Feb-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses<br>Prepared by method SW-846 5030C | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 14:27 | 28-Feb-19 14:28 | 10670 | 190591A | |
| 71-55-6 | 1,1,1-Trichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | 0.4 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 123-91-1 | 1,4-Dioxane | < 250 | | ug/l | 250 | 29 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 78-93-3 | 2-Butanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 10 | | ug/l | 10 | 0.3 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | 0.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 20 | | ug/l | 20 | 0.7 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 20 | | ug/l | 20 | 0.3 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 4 | | ug/l | 4 | 0.2 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon Tetrachloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **TB 022119**<br>SC53632-06 | 60276639.1 | Trip Blank | 21-Feb-19 00:00 | 22-Feb-19 |

| *CAS No.* | *Analyte(s)* | *Result* | *Flag* | *Units* | **RDL* | *MDL* | *Dilution* | *Method Ref.* | *Prepared* | *Analyzed* | *Analyst* | *Batch* | *Cert.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670* | | | | | | | | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | SW-846 8260C | 28-Feb-19 14:27 | 28-Feb-19 14:28 | 10670 | 190591A | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 108-20-3 | di-Isopropyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 64-17-5 | Ethanol | < 750 | | ug/l | 750 | 280 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl t-butyl ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 76-13-1 | Freon 113 | < 10 | | ug/l | 10 | 0.2 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5 | | ug/l | 5 | 0.7 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 179601-23-1 | m+p-Xylene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 1634-04-4 | Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene Chloride | < 1 | | ug/l | 1 | 0.3 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 5 | | ug/l | 5 | 1 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1 | | ug/l | 1 | 0.4 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 5 | | ug/l | 5 | 0.2 | 1 | " | " | " | " | " | |
| 994-05-8 | t-Amyl methyl ether | < 5 | | ug/l | 5 | 0.8 | 1 | " | " | " | " | " | |
| 75-65-0 | t-Butyl alcohol | < 50 | | ug/l | 50 | 12 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 5 | | ug/l | 5 | 0.3 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran | < 10 | | ug/l | 10 | 0.7 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | 6 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl Chloride | < 1 | | ug/l | 1 | 0.2 | 1 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *105* | | | *80-120 %* | | | " | " | " | " | " | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | | *80-120 %* | | | " | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *102* | | | *80-120 %* | | | " | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *99* | | | *80-120 %* | | | " | " | " | " | " | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **E1664A** | | | | | | | | | | |
| **Batch 468234A - E1664A** | | | | | | | | | | |
| **BLK (CC57544-BLK)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Oil and Grease by EPA 1664A | < 1.4 | | mg/l | 1.4 | 40 | | BRL | - | | |
| **LCS (CC57544-LCS)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Oil and Grease by EPA 1664A | **40.30** | | mg/l | 1.4 | 40 | | 101 | 85-115 | | 20 |
| **LCSD (CC57544-LCSD)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Oil and Grease by EPA 1664A | **38.90** | | mg/l | 1.4 | 40 | | 97 | 85-115 | 4.0 | 20 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SM 2540 C** | | | | | | | | | | |
| **Batch 19057964902A - General Preparation** | | | | | | | | | | |
| **Blank (B057882B)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Total Dissolved Solids | < 60.0 | | mg/l | 60.0 | | | | - | | |
| **LCS (L057882Q)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Total Dissolved Solids | **201** | | mg/l | 60.0 | 200 | | 101 | 67-127 | | |
| **SM 2540 D** | | | | | | | | | | |
| **Batch 19057385802A - General Preparation** | | | | | | | | | | |
| **Blank (B057712B)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Total Suspended Solids | < 3.00 | | mg/l | 3.00 | | | | - | | |
| **LCS (L057712Q)** | | | | | | Prepared & Analyzed: 26-Feb-19 | | | | |
| Total Suspended Solids | **148** | | mg/l | 3.00 | 150 | | 99 | 89-105 | | |
| **SW-846 6020A** | | | | | | | | | | |
| **Batch 190641404707A - SW-846 3020A** | | | | | | | | | | |
| **Blank (P06404GBB)** | | | | | | Prepared & Analyzed: 06-Mar-19 | | | | |
| Aluminum | < 0.400 | | mg/l | 0.400 | | | | - | | |
| Nickel | < 0.0040 | | mg/l | 0.0040 | | | | - | | |
| Manganese | < 0.0100 | | mg/l | 0.0100 | | | | - | | |
| Iron | < 0.100 | | mg/l | 0.100 | | | | - | | |
| Copper | < 0.0400 | | mg/l | 0.0400 | | | | - | | |
| Chromium | < 0.0040 | | mg/l | 0.0040 | | | | - | | |
| Zinc | < 0.0150 | | mg/l | 0.0150 | | | | - | | |
| Arsenic | < 0.0020 | | mg/l | 0.0020 | | | | - | | |
| Barium | < 0.0040 | | mg/l | 0.0040 | | | | - | | |
| **LCS (P06404GQQ)** | | | | | | Prepared & Analyzed: 06-Mar-19 | | | | |
| Chromium | **0.0524** | | mg/l | 0.0040 | 0.0500 | | 105 | 90-115 | | |
| Aluminum | **2.07** | | mg/l | 0.400 | 2.00 | | 103 | 88-114 | | |
| Barium | **0.0513** | | mg/l | 0.0040 | 0.0500 | | 103 | 80-120 | | |
| Zinc | **0.540** | | mg/l | 0.0150 | 0.500 | | 108 | 90-115 | | |
| Copper | **0.0550** | | mg/l | 0.0400 | 0.0500 | | 110 | 89-120 | | |
| Iron | **1.03** | | mg/l | 0.100 | 1.00 | | 103 | 87-114 | | |
| Manganese | **0.0542** | | mg/l | 0.0100 | 0.0500 | | 108 | 89-120 | | |
| Nickel | **0.0542** | | mg/l | 0.0040 | 0.0500 | | 108 | 90-114 | | |
| Arsenic | **0.0102** | | mg/l | 0.0020 | 0.0100 | | 102 | 85-120 | | |
| **SW-846 7470A** | | | | | | | | | | |
| **Batch 190590571303 - METHOD** | | | | | | | | | | |
| **Blank (P05971CBB)** | | | | | | Prepared: 28-Feb-19 Analyzed: 01-Mar-19 | | | | |
| Mercury | < 0.00020 | | mg/l | 0.00020 | | | | - | | |
| **LCS (P05971CQQ)** | | | | | | Prepared: 28-Feb-19 Analyzed: 01-Mar-19 | | | | |
| Mercury | **0.00085** | | mg/l | 0.00020 | 0.0010 | | 85 | 80-114 | | |
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL46Q)** | | | | | | Prepared & Analyzed: 28-Feb-19 | | | | |
| 1,2,4-Trichlorobenzene | **19** | | ug/l | 5 | 20 | | 96 | 63-120 | | |
| 1,1,1-Trichloroethane | **23** | | ug/l | 1 | 20 | | 113 | 67-126 | | |
| 1,1,2,2-Tetrachloroethane | **20** | | ug/l | 1 | 20 | | 99 | 72-120 | | |
| 1,1,2-Trichloroethane | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | | |
| 1,1-Dichloroethane | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | | |
| 1,1-Dichloroethene | **23** | | ug/l | 1 | 20 | | 113 | 80-131 | | |
| 1,1-Dichloropropene | **22** | | ug/l | 5 | 20 | | 110 | 78-120 | | |
| 1,3,5-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 106 | 75-120 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL46Q)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| 1,2,3-Trichloropropane | **20** | | ug/l | 5 | 20 | | 101 | 75-124 | | |
| m+p-Xylene | **43** | | ug/l | 5 | 40 | | 107 | 80-120 | | |
| 1,2,4-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 104 | 75-120 | | |
| 1,2-Dibromo-3-chloropropane | **20** | | ug/l | 5 | 20 | | 101 | 47-131 | | |
| 1,2-Dibromoethane | **21** | | ug/l | 1 | 20 | | 103 | 77-120 | | |
| 1,2-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 1,2-Dichloroethane | **22** | | ug/l | 1 | 20 | | 110 | 73-124 | | |
| 1,2-Dichloropropane | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| Carbon Tetrachloride | **23** | | ug/l | 1 | 20 | | 117 | 64-134 | | |
| 1,2,3-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 98 | 66-120 | | |
| di-Isopropyl ether | **19** | | ug/l | 1 | 20 | | 96 | 70-124 | | |
| Chlorobenzene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | | |
| Methylene Chloride | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | | |
| Chloroform | **22** | | ug/l | 1 | 20 | | 112 | 80-120 | | |
| Chloromethane | **16** | | ug/l | 1 | 20 | | 81 | 56-121 | | |
| cis-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 110 | 80-120 | | |
| cis-1,3-Dichloropropene | **21** | | ug/l | 1 | 20 | | 106 | 75-120 | | |
| Dibromochloromethane | **21** | | ug/l | 1 | 20 | | 106 | 71-120 | | |
| 1,1,1,2-Tetrachloroethane | **21** | | ug/l | 1 | 20 | | 106 | 78-120 | | |
| Dichlorodifluoromethane | **17** | | ug/l | 1 | 20 | | 86 | 41-127 | | |
| Methyl Tertiary Butyl Ether | **19** | | ug/l | 1 | 20 | | 97 | 69-122 | | |
| Ethyl ether | **20** | | ug/l | 5 | 20 | | 100 | 59-141 | | |
| Ethyl t-butyl ether | **19** | | ug/l | 1 | 20 | | 97 | 68-121 | | |
| Ethylbenzene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | | |
| Freon 113 | **24** | | ug/l | 10 | 20 | | 121 | 73-139 | | |
| Hexachlorobutadiene | **18** | | ug/l | 5 | 20 | | 92 | 63-120 | | |
| Isopropylbenzene | **22** | | ug/l | 5 | 20 | | 108 | 80-120 | | |
| 1,3-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 101 | 80-120 | | |
| Dibromomethane | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | | |
| t-Amyl methyl ether | **21** | | ug/l | 5 | 20 | | 103 | 66-120 | | |
| 1,3,5-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 98 | 66-123 | | |
| trans-1,4-Dichloro-2-butene | **72** | | ug/l | 50 | 100 | | 72 | 33-143 | | |
| trans-1,3-Dichloropropene | **20** | | ug/l | 1 | 20 | | 100 | 67-120 | | |
| trans-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 111 | 80-120 | | |
| Toluene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| Tetrahydrofuran | **94** | | ug/l | 10 | 100 | | 94 | 54-144 | | |
| Tetrachloroethene | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | | |
| Trichlorofluoromethane | **20** | | ug/l | 1 | 20 | | 100 | 55-135 | | |
| t-Butyl alcohol | **190** | | ug/l | 50 | 200 | | 97 | 60-130 | | |
| Vinyl Chloride | **17** | | ug/l | 1 | 20 | | 83 | 56-120 | | |
| Styrene | **22** | | ug/l | 5 | 20 | | 108 | 80-120 | | |
| sec-Butylbenzene | **21** | | ug/l | 5 | 20 | | 105 | 77-120 | | |
| p-Isopropyltoluene | **21** | | ug/l | 5 | 20 | | 104 | 76-120 | | |
| o-Xylene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| n-Propylbenzene | **21** | | ug/l | 5 | 20 | | 104 | 79-121 | | |
| n-Butylbenzene | **20** | | ug/l | 5 | 20 | | 99 | 76-120 | | |
| Naphthalene | **20** | | ug/l | 5 | 20 | | 99 | 53-124 | | |
| tert-Butylbenzene | **22** | | ug/l | 5 | 20 | | 112 | 78-120 | | |
| Acetone | **160** | | ug/l | 20 | 150 | | 104 | 54-157 | | |
| 1,3-Dichloropropane | **20** | | ug/l | 1 | 20 | | 101 | 80-120 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL46Q)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| 1,4-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 1,4-Dioxane | **470** | | ug/l | 250 | 500 | | 94 | 63-146 | | |
| 2,2-Dichloropropane | **22** | | ug/l | 1 | 20 | | 109 | 55-142 | | |
| 2-Butanone | **150** | | ug/l | 10 | 150 | | 99 | 59-135 | | |
| 2-Chlorotoluene | **21** | | ug/l | 5 | 20 | | 104 | 80-120 | | |
| 2-Hexanone | **91** | | ug/l | 10 | 100 | | 91 | 56-135 | | |
| Trichloroethene | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | | |
| 4-Methyl-2-pentanone | **94** | | ug/l | 10 | 100 | | 94 | 62-133 | | |
| Carbon Disulfide | **19** | | ug/l | 5 | 20 | | 97 | 65-128 | | |
| Acrylonitrile | **93** | | ug/l | 20 | 100 | | 93 | 60-129 | | |
| Benzene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | | |
| Bromobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| Bromochloromethane | **19** | | ug/l | 5 | 20 | | 94 | 80-120 | | |
| Bromodichloromethane | **22** | | ug/l | 1 | 20 | | 111 | 71-120 | | |
| Bromoform | **20** | | ug/l | 4 | 20 | | 100 | 51-120 | | |
| Bromomethane | **17** | | ug/l | 1 | 20 | | 86 | 53-128 | | |
| 4-Chlorotoluene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| Chloroethane | **19** | | ug/l | 1 | 20 | | 93 | 55-123 | | |
| *Surrogate: 4-Bromofluorobenzene* | *51* | | ug/l | | *50* | | *103* | *80-120* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50* | | ug/l | | *50* | | *101* | *80-120* | | |
| *Surrogate: Toluene-d8* | *50* | | ug/l | | *50* | | *99* | *80-120* | | |
| *Surrogate: Dibromofluoromethane* | *52* | | ug/l | | *50* | | *104* | *80-120* | | |
| **LCSD (LCSL46Y)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| Bromomethane | **18** | | ug/l | 1 | 20 | | 88 | 53-128 | 2 | 30 |
| 1,4-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | 0 | 30 |
| Bromoform | **20** | | ug/l | 4 | 20 | | 100 | 51-120 | 0 | 30 |
| Bromodichloromethane | **22** | | ug/l | 1 | 20 | | 110 | 71-120 | 2 | 30 |
| Bromochloromethane | **19** | | ug/l | 5 | 20 | | 97 | 80-120 | 2 | 30 |
| Bromobenzene | **20** | | ug/l | 5 | 20 | | 101 | 80-120 | 1 | 30 |
| Benzene | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | 1 | 30 |
| Acetone | **150** | | ug/l | 20 | 150 | | 103 | 54-157 | 1 | 30 |
| Acrylonitrile | **93** | | ug/l | 20 | 100 | | 93 | 60-129 | 1 | 30 |
| 2-Butanone | **150** | | ug/l | 10 | 150 | | 98 | 59-135 | 1 | 30 |
| 2,2-Dichloropropane | **22** | | ug/l | 1 | 20 | | 109 | 55-142 | 0 | 30 |
| Chlorobenzene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 1 | 30 |
| 4-Methyl-2-pentanone | **94** | | ug/l | 10 | 100 | | 94 | 62-133 | 0 | 30 |
| 4-Chlorotoluene | **20** | | ug/l | 5 | 20 | | 101 | 80-120 | 1 | 30 |
| 2-Hexanone | **91** | | ug/l | 10 | 100 | | 91 | 56-135 | 0 | 30 |
| 2-Chlorotoluene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | 1 | 30 |
| 1,4-Dioxane | **420** | | ug/l | 250 | 500 | | 84 | 63-146 | 11 | 30 |
| Dichlorodifluoromethane | **17** | | ug/l | 1 | 20 | | 87 | 41-127 | 1 | 30 |
| Methyl Tertiary Butyl Ether | **20** | | ug/l | 1 | 20 | | 98 | 69-122 | 0 | 30 |
| m+p-Xylene | **42** | | ug/l | 5 | 40 | | 106 | 80-120 | 1 | 30 |
| Isopropylbenzene | **21** | | ug/l | 5 | 20 | | 107 | 80-120 | 1 | 30 |
| Hexachlorobutadiene | **19** | | ug/l | 5 | 20 | | 93 | 63-120 | 1 | 30 |
| Freon 113 | **24** | | ug/l | 10 | 20 | | 118 | 73-139 | 2 | 30 |
| Ethylbenzene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 1 | 30 |
| Ethyl t-butyl ether | **19** | | ug/l | 1 | 20 | | 97 | 68-121 | 0 | 30 |
| Carbon Disulfide | **19** | | ug/l | 5 | 20 | | 96 | 65-128 | 1 | 30 |
| di-Isopropyl ether | **19** | | ug/l | 1 | 20 | | 97 | 70-124 | 1 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **LCSD (LCSL46Y)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| 1,3-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 100 | 80-120 | 1 | 30 |
| Dibromomethane | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | 0 | 30 |
| Dibromochloromethane | **21** | | ug/l | 1 | 20 | | 107 | 71-120 | 0 | 30 |
| cis-1,3-Dichloropropene | **21** | | ug/l | 1 | 20 | | 105 | 75-120 | 0 | 30 |
| cis-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 111 | 80-120 | 1 | 30 |
| Chloromethane | **17** | | ug/l | 1 | 20 | | 83 | 56-121 | 3 | 30 |
| Chloroform | **22** | | ug/l | 1 | 20 | | 112 | 80-120 | 0 | 30 |
| Chloroethane | **19** | | ug/l | 1 | 20 | | 93 | 55-123 | 0 | 30 |
| Carbon Tetrachloride | **23** | | ug/l | 1 | 20 | | 116 | 64-134 | 1 | 30 |
| Ethyl ether | **20** | | ug/l | 5 | 20 | | 99 | 59-141 | 2 | 30 |
| tert-Butylbenzene | **21** | | ug/l | 5 | 20 | | 105 | 78-120 | 6 | 30 |
| n-Butylbenzene | **20** | | ug/l | 5 | 20 | | 98 | 76-120 | 1 | 30 |
| 1,3-Dichloropropane | **20** | | ug/l | 1 | 20 | | 100 | 80-120 | 1 | 30 |
| n-Propylbenzene | **21** | | ug/l | 5 | 20 | | 104 | 79-121 | 1 | 30 |
| o-Xylene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | 1 | 30 |
| p-Isopropyltoluene | **21** | | ug/l | 5 | 20 | | 106 | 76-120 | 1 | 30 |
| sec-Butylbenzene | **21** | | ug/l | 5 | 20 | | 105 | 77-120 | 0 | 30 |
| Methylene Chloride | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | 1 | 30 |
| Styrene | **21** | | ug/l | 5 | 20 | | 106 | 80-120 | 2 | 30 |
| trans-1,4-Dichloro-2-butene | **73** | | ug/l | 50 | 100 | | 73 | 33-143 | 2 | 30 |
| t-Butyl alcohol | **190** | | ug/l | 50 | 200 | | 96 | 60-130 | 1 | 30 |
| Naphthalene | **20** | | ug/l | 5 | 20 | | 99 | 53-124 | 1 | 30 |
| Tetrachloroethene | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | 1 | 30 |
| Tetrahydrofuran | **92** | | ug/l | 10 | 100 | | 92 | 54-144 | 2 | 30 |
| Toluene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 0 | 30 |
| trans-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 110 | 80-120 | 0 | 30 |
| Vinyl Chloride | **17** | | ug/l | 1 | 20 | | 86 | 56-120 | 4 | 30 |
| Trichlorofluoromethane | **20** | | ug/l | 1 | 20 | | 101 | 55-135 | 2 | 30 |
| trans-1,3-Dichloropropene | **20** | | ug/l | 1 | 20 | | 101 | 67-120 | 1 | 30 |
| Trichloroethene | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | 0 | 30 |
| t-Amyl methyl ether | **21** | | ug/l | 5 | 20 | | 104 | 66-120 | 1 | 30 |
| 1,2,3-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 98 | 66-120 | 0 | 30 |
| 1,2-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | 0 | 30 |
| 1,2-Dibromoethane | **20** | | ug/l | 1 | 20 | | 102 | 77-120 | 1 | 30 |
| 1,2-Dibromo-3-chloropropane | **20** | | ug/l | 5 | 20 | | 98 | 47-131 | 3 | 30 |
| 1,2-Dichloropropane | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 0 | 30 |
| 1,3,5-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 99 | 66-123 | 0 | 30 |
| 1,1,1,2-Tetrachloroethane | **21** | | ug/l | 1 | 20 | | 105 | 78-120 | 1 | 30 |
| 1,2-Dichloroethane | **22** | | ug/l | 1 | 20 | | 110 | 73-124 | 0 | 30 |
| 1,2,3-Trichloropropane | **21** | | ug/l | 5 | 20 | | 103 | 75-124 | 2 | 30 |
| 1,2,4-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 104 | 75-120 | 0 | 30 |
| 1,1-Dichloropropene | **22** | | ug/l | 5 | 20 | | 110 | 78-120 | 0 | 30 |
| 1,1-Dichloroethene | **23** | | ug/l | 1 | 20 | | 113 | 80-131 | 0 | 30 |
| 1,3,5-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 107 | 75-120 | 1 | 30 |
| 1,1-Dichloroethane | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 1 | 30 |
| 1,1,2-Trichloroethane | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | 0 | 30 |
| 1,1,2,2-Tetrachloroethane | **20** | | ug/l | 1 | 20 | | 100 | 72-120 | 1 | 30 |
| 1,1,1-Trichloroethane | **22** | | ug/l | 1 | 20 | | 112 | 67-126 | 0 | 30 |
| 1,2,4-Trichlorobenzene | **19** | | ug/l | 5 | 20 | | 97 | 63-120 | 1 | 30 |
| *Surrogate: 1,2-Dichloroethane-d4* | *50* | | ug/l | | *50* | | *100* | *80-120* | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **LCSD (LCSL46Y)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| *Surrogate: Toluene-d8* | *49* | | ug/l | | *50* | | *99* | *80-120* | | |
| *Surrogate: Dibromofluoromethane* | *52* | | ug/l | | *50* | | *104* | *80-120* | | |
| *Surrogate: 4-Bromofluorobenzene* | *51* | | ug/l | | *50* | | *101* | *80-120* | | |
| **LCS (LCSL47Q)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| Ethanol | **520** | | ug/l | 750 | 500 | | 104 | 31-180 | | |
| **LCSD (LCSL47Y)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| Ethanol | **510** | | ug/l | 750 | 500 | | 102 | 31-180 | 2 | 30 |
| **Blank (VBLKL46B)** | | | | | Prepared & Analyzed: 28-Feb-19 | | | | | |
| tert-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Chloroethane | < 1 | | ug/l | 1 | | | | - | | |
| Vinyl Chloride | < 1 | | ug/l | 1 | | | | - | | |
| Trichlorofluoromethane | < 1 | | ug/l | 1 | | | | - | | |
| Trichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | | | | - | | |
| trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | | | | - | | |
| trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Toluene | < 1 | | ug/l | 1 | | | | - | | |
| t-Amyl methyl ether | < 5 | | ug/l | 5 | | | | - | | |
| Tetrachloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Methylene Chloride | < 1 | | ug/l | 1 | | | | - | | |
| t-Butyl alcohol | < 50 | | ug/l | 50 | | | | - | | |
| Styrene | < 5 | | ug/l | 5 | | | | - | | |
| sec-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| p-Isopropyltoluene | < 5 | | ug/l | 5 | | | | - | | |
| o-Xylene | < 1 | | ug/l | 1 | | | | - | | |
| n-Propylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| n-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Naphthalene | < 5 | | ug/l | 5 | | | | - | | |
| Tetrahydrofuran | < 10 | | ug/l | 10 | | | | - | | |
| 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 4-Chlorotoluene | < 5 | | ug/l | 5 | | | | - | | |
| 2-Hexanone | < 10 | | ug/l | 10 | | | | - | | |
| 2-Chlorotoluene | < 5 | | ug/l | 5 | | | | - | | |
| 2-Butanone | < 10 | | ug/l | 10 | | | | - | | |
| 2,2-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 1,4-Dioxane | < 250 | | ug/l | 250 | | | | - | | |
| 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,3-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | | | | - | | |
| 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | | | | - | | |
| Chloromethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2-Dibromoethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | | | | - | | |
| 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | | | | - | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190591AA - SW-846 5030C** | | | | | | | | | | |
| **Blank (VBLKL46B)** | | | | | | Prepared & Analyzed: 28-Feb-19 | | | | |
| 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,1-Dichloropropene | < 5 | | ug/l | 5 | | | | - | | |
| 1,1-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| 1,1-Dichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,1-Trichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2-Dichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| Hexachlorobutadiene | < 5 | | ug/l | 5 | | | | - | | |
| Isopropylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Acetone | < 20 | | ug/l | 20 | | | | - | | |
| Freon 113 | < 10 | | ug/l | 10 | | | | - | | |
| Ethylbenzene | < 1 | | ug/l | 1 | | | | - | | |
| Ethyl t-butyl ether | < 1 | | ug/l | 1 | | | | - | | |
| Ethyl ether | < 5 | | ug/l | 5 | | | | - | | |
| Ethanol | < 750 | | ug/l | 750 | | | | - | | |
| di-Isopropyl ether | < 1 | | ug/l | 1 | | | | - | | |
| Dichlorodifluoromethane | < 1 | | ug/l | 1 | | | | - | | |
| Dibromomethane | < 1 | | ug/l | 1 | | | | - | | |
| Dibromochloromethane | < 1 | | ug/l | 1 | | | | - | | |
| cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | | | | - | | |
| cis-1,2-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Acrylonitrile | < 20 | | ug/l | 20 | | | | - | | |
| Chloroform | < 1 | | ug/l | 1 | | | | - | | |
| m+p-Xylene | < 5 | | ug/l | 5 | | | | - | | |
| Chlorobenzene | < 1 | | ug/l | 1 | | | | - | | |
| Carbon Tetrachloride | < 1 | | ug/l | 1 | | | | - | | |
| Carbon Disulfide | < 5 | | ug/l | 5 | | | | - | | |
| Bromomethane | < 1 | | ug/l | 1 | | | | - | | |
| Bromoform | < 4 | | ug/l | 4 | | | | - | | |
| Bromodichloromethane | < 1 | | ug/l | 1 | | | | - | | |
| Benzene | < 1 | | ug/l | 1 | | | | - | | |
| Bromochloromethane | < 5 | | ug/l | 5 | | | | - | | |
| Bromobenzene | < 5 | | ug/l | 5 | | | | - | | |
| *Surrogate: 4-Bromofluorobenzene* | *50* | | ug/l | | *50* | | *100* | *80-120* | | |
| *Surrogate: Dibromofluoromethane* | *52* | | ug/l | | *50* | | *104* | *80-120* | | |
| *Surrogate: Toluene-d8* | *49* | | ug/l | | *50* | | *98* | *80-120* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51* | | ug/l | | *50* | | *102* | *80-120* | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL55Q)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| 2,2-Dichloropropane | **21** | | ug/l | 1 | 20 | | 106 | 55-142 | | |
| 1,2-Dichloropropane | **20** | | ug/l | 1 | 20 | | 100 | 80-120 | | |
| 1,3,5-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 100 | 66-123 | | |
| 1,3,5-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 103 | 75-120 | | |
| 1,3-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 1,3-Dichloropropane | **20** | | ug/l | 1 | 20 | | 100 | 80-120 | | |
| 4-Chlorotoluene | **20** | | ug/l | 5 | 20 | | 100 | 80-120 | | |
| 1,4-Dioxane | **440** | | ug/l | 250 | 500 | | 87 | 63-146 | | |
| 2-Butanone | **140** | | ug/l | 10 | 150 | | 95 | 59-135 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL55Q)** | | | | | Prepared & Analyzed: 04-Mar-19 | | | | | |
| 2-Chlorotoluene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 2-Hexanone | **87** | | ug/l | 10 | 100 | | 87 | 56-135 | | |
| 1,2-Dichloroethane | **22** | | ug/l | 1 | 20 | | 108 | 73-124 | | |
| 1,1-Dichloroethane | **20** | | ug/l | 1 | 20 | | 100 | 80-120 | | |
| 1,4-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 1,2-Dichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | | |
| 1,2-Dibromoethane | **20** | | ug/l | 1 | 20 | | 101 | 77-120 | | |
| 1,2-Dibromo-3-chloropropane | **20** | | ug/l | 5 | 20 | | 99 | 47-131 | | |
| 1,2,4-Trimethylbenzene | **20** | | ug/l | 5 | 20 | | 102 | 75-120 | | |
| 1,2,4-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 98 | 63-120 | | |
| 1,2,3-Trichloropropane | **20** | | ug/l | 5 | 20 | | 99 | 75-124 | | |
| 1,2,3-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 100 | 66-120 | | |
| 1,1-Dichloroethene | **21** | | ug/l | 1 | 20 | | 104 | 80-131 | | |
| 4-Methyl-2-pentanone | **90** | | ug/l | 10 | 100 | | 90 | 62-133 | | |
| 1,1,2-Trichloroethane | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| 1,1,2,2-Tetrachloroethane | **19** | | ug/l | 1 | 20 | | 96 | 72-120 | | |
| 1,1,1-Trichloroethane | **22** | | ug/l | 1 | 20 | | 109 | 67-126 | | |
| 1,1,1,2-Tetrachloroethane | **21** | | ug/l | 1 | 20 | | 105 | 78-120 | | |
| Toluene | **20** | | ug/l | 1 | 20 | | 102 | 80-120 | | |
| 1,1-Dichloropropene | **21** | | ug/l | 5 | 20 | | 103 | 78-120 | | |
| t-Amyl methyl ether | **20** | | ug/l | 5 | 20 | | 101 | 66-120 | | |
| Hexachlorobutadiene | **18** | | ug/l | 5 | 20 | | 92 | 63-120 | | |
| Isopropylbenzene | **21** | | ug/l | 5 | 20 | | 106 | 80-120 | | |
| m+p-Xylene | **42** | | ug/l | 5 | 40 | | 104 | 80-120 | | |
| Methyl Tertiary Butyl Ether | **19** | | ug/l | 1 | 20 | | 94 | 69-122 | | |
| Methylene Chloride | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| Naphthalene | **20** | | ug/l | 5 | 20 | | 99 | 53-124 | | |
| n-Butylbenzene | **20** | | ug/l | 5 | 20 | | 98 | 76-120 | | |
| n-Propylbenzene | **20** | | ug/l | 5 | 20 | | 102 | 79-121 | | |
| o-Xylene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| p-Isopropyltoluene | **21** | | ug/l | 5 | 20 | | 104 | 76-120 | | |
| Freon 113 | **21** | | ug/l | 10 | 20 | | 107 | 73-139 | | |
| Styrene | **21** | | ug/l | 5 | 20 | | 105 | 80-120 | | |
| trans-1,2-Dichloroethene | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | | |
| t-Butyl alcohol | **190** | | ug/l | 50 | 200 | | 93 | 60-130 | | |
| tert-Butylbenzene | **20** | | ug/l | 5 | 20 | | 100 | 78-120 | | |
| Tetrahydrofuran | **90** | | ug/l | 10 | 100 | | 90 | 54-144 | | |
| trans-1,3-Dichloropropene | **20** | | ug/l | 1 | 20 | | 98 | 67-120 | | |
| trans-1,4-Dichloro-2-butene | **80** | | ug/l | 50 | 100 | | 80 | 33-143 | | |
| Trichloroethene | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | | |
| Trichlorofluoromethane | **17** | | ug/l | 1 | 20 | | 84 | 55-135 | | |
| Vinyl Chloride | **15** | | ug/l | 1 | 20 | | 76 | 56-120 | | |
| Tetrachloroethene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | | |
| Acetone | **150** | | ug/l | 20 | 150 | | 99 | 54-157 | | |
| sec-Butylbenzene | **20** | | ug/l | 5 | 20 | | 102 | 77-120 | | |
| Bromodichloromethane | **22** | | ug/l | 1 | 20 | | 111 | 71-120 | | |
| Acrylonitrile | **90** | | ug/l | 20 | 100 | | 90 | 60-129 | | |
| Ethylbenzene | **20** | | ug/l | 1 | 20 | | 102 | 80-120 | | |
| Benzene | **21** | | ug/l | 1 | 20 | | 103 | 80-120 | | |
| Bromochloromethane | **19** | | ug/l | 5 | 20 | | 94 | 80-120 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **LCS (LCSL55Q)** | | | | | Prepared & Analyzed: 04-Mar-19 | | | | | |
| Bromoform | **21** | | ug/l | 4 | 20 | | 103 | 51-120 | | |
| Bromomethane | **15** | | ug/l | 1 | 20 | | 75 | 53-128 | | |
| Carbon Disulfide | **18** | | ug/l | 5 | 20 | | 90 | 65-128 | | |
| Carbon Tetrachloride | **22** | | ug/l | 1 | 20 | | 111 | 64-134 | | |
| Chlorobenzene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | | |
| Chloroethane | **16** | | ug/l | 1 | 20 | | 78 | 55-123 | | |
| Chloroform | **22** | | ug/l | 1 | 20 | | 110 | 80-120 | | |
| Dichlorodifluoromethane | **14** | | ug/l | 1 | 20 | | 71 | 41-127 | | |
| Ethanol | **470** | | ug/l | 750 | 500 | | 94 | 31-180 | | |
| Bromobenzene | **20** | | ug/l | 5 | 20 | | 101 | 80-120 | | |
| di-Isopropyl ether | **18** | | ug/l | 1 | 20 | | 90 | 70-124 | | |
| Ethyl t-butyl ether | **18** | | ug/l | 1 | 20 | | 91 | 68-121 | | |
| Dibromomethane | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | | |
| Dibromochloromethane | **21** | | ug/l | 1 | 20 | | 107 | 71-120 | | |
| Chloromethane | **15** | | ug/l | 1 | 20 | | 76 | 56-121 | | |
| cis-1,3-Dichloropropene | **21** | | ug/l | 1 | 20 | | 105 | 75-120 | | |
| cis-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51* | | ug/l | | *50* | | *102* | *80-120* | | |
| *Surrogate: Dibromofluoromethane* | *53* | | ug/l | | *50* | | *105* | *80-120* | | |
| *Surrogate: Toluene-d8* | *49* | | ug/l | | *50* | | *98* | *80-120* | | |
| *Surrogate: 4-Bromofluorobenzene* | *51* | | ug/l | | *50* | | *103* | *80-120* | | |
| **LCSD (LCSL55Y)** | | | | | Prepared & Analyzed: 04-Mar-19 | | | | | |
| di-Isopropyl ether | **19** | | ug/l | 1 | 20 | | 93 | 70-124 | 3 | 30 |
| Ethanol | **410** | | ug/l | 750 | 500 | | 82 | 31-180 | 14 | 30 |
| Ethyl t-butyl ether | **19** | | ug/l | 1 | 20 | | 96 | 68-121 | 6 | 30 |
| Hexachlorobutadiene | **19** | | ug/l | 5 | 20 | | 95 | 63-120 | 3 | 30 |
| Freon 113 | **22** | | ug/l | 10 | 20 | | 110 | 73-139 | 3 | 30 |
| cis-1,2-Dichloroethene | **22** | | ug/l | 1 | 20 | | 112 | 80-120 | 3 | 30 |
| m+p-Xylene | **43** | | ug/l | 5 | 40 | | 108 | 80-120 | 4 | 30 |
| Ethylbenzene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | 3 | 30 |
| Dichlorodifluoromethane | **15** | | ug/l | 1 | 20 | | 73 | 41-127 | 3 | 30 |
| Dibromomethane | **22** | | ug/l | 1 | 20 | | 111 | 80-120 | 3 | 30 |
| cis-1,3-Dichloropropene | **22** | | ug/l | 1 | 20 | | 110 | 75-120 | 5 | 30 |
| Chloromethane | **16** | | ug/l | 1 | 20 | | 79 | 56-121 | 3 | 30 |
| Chloroform | **23** | | ug/l | 1 | 20 | | 115 | 80-120 | 4 | 30 |
| Methylene Chloride | **22** | | ug/l | 1 | 20 | | 109 | 80-120 | 5 | 30 |
| Toluene | **21** | | ug/l | 1 | 20 | | 104 | 80-120 | 3 | 30 |
| Chloroethane | **16** | | ug/l | 1 | 20 | | 81 | 55-123 | 5 | 30 |
| Chlorobenzene | **21** | | ug/l | 1 | 20 | | 105 | 80-120 | 2 | 30 |
| Dibromochloromethane | **22** | | ug/l | 1 | 20 | | 109 | 71-120 | 1 | 30 |
| tert-Butylbenzene | **21** | | ug/l | 5 | 20 | | 107 | 78-120 | 7 | 30 |
| Isopropylbenzene | **22** | | ug/l | 5 | 20 | | 111 | 80-120 | 4 | 30 |
| Carbon Tetrachloride | **23** | | ug/l | 1 | 20 | | 116 | 64-134 | 4 | 30 |
| Vinyl Chloride | **16** | | ug/l | 1 | 20 | | 80 | 56-120 | 5 | 30 |
| Trichlorofluoromethane | **18** | | ug/l | 1 | 20 | | 88 | 55-135 | 5 | 30 |
| Trichloroethene | **23** | | ug/l | 1 | 20 | | 113 | 80-120 | 6 | 30 |
| trans-1,4-Dichloro-2-butene | **82** | | ug/l | 50 | 100 | | 82 | 33-143 | 3 | 30 |
| trans-1,3-Dichloropropene | **20** | | ug/l | 1 | 20 | | 101 | 67-120 | 3 | 30 |
| Tetrachloroethene | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | 3 | 30 |
| Tetrahydrofuran | **92** | | ug/l | 10 | 100 | | 92 | 54-144 | 2 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **LCSD (LCSL55Y)** | | | | | Prepared & Analyzed: 04-Mar-19 | | | | | |
| Naphthalene | **20** | | ug/l | 5 | 20 | | 101 | 53-124 | 2 | 30 |
| t-Butyl alcohol | **190** | | ug/l | 50 | 200 | | 96 | 60-130 | 3 | 30 |
| t-Amyl methyl ether | **21** | | ug/l | 5 | 20 | | 105 | 66-120 | 5 | 30 |
| Styrene | **22** | | ug/l | 5 | 20 | | 108 | 80-120 | 3 | 30 |
| sec-Butylbenzene | **21** | | ug/l | 5 | 20 | | 105 | 77-120 | 3 | 30 |
| p-Isopropyltoluene | **22** | | ug/l | 5 | 20 | | 108 | 76-120 | 3 | 30 |
| o-Xylene | **22** | | ug/l | 1 | 20 | | 108 | 80-120 | 4 | 30 |
| n-Propylbenzene | **21** | | ug/l | 5 | 20 | | 105 | 79-121 | 3 | 30 |
| n-Butylbenzene | **20** | | ug/l | 5 | 20 | | 101 | 76-120 | 3 | 30 |
| trans-1,2-Dichloroethene | **23** | | ug/l | 1 | 20 | | 114 | 80-120 | 7 | 30 |
| 1,2,3-Trichloropropane | **21** | | ug/l | 5 | 20 | | 103 | 75-124 | 4 | 30 |
| 1,3,5-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 107 | 75-120 | 4 | 30 |
| 1,1,1,2-Tetrachloroethane | **21** | | ug/l | 1 | 20 | | 107 | 78-120 | 2 | 30 |
| 1,1,1-Trichloroethane | **23** | | ug/l | 1 | 20 | | 114 | 67-126 | 5 | 30 |
| 1,1,2,2-Tetrachloroethane | **19** | | ug/l | 1 | 20 | | 96 | 72-120 | 0 | 30 |
| 1,1,2-Trichloroethane | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | 2 | 30 |
| 1,1-Dichloroethane | **21** | | ug/l | 1 | 20 | | 106 | 80-120 | 6 | 30 |
| 1,1-Dichloroethene | **22** | | ug/l | 1 | 20 | | 109 | 80-131 | 5 | 30 |
| 1,3-Dichlorobenzene | **21** | | ug/l | 5 | 20 | | 104 | 80-120 | 2 | 30 |
| 1,2,3-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 102 | 66-120 | 2 | 30 |
| 1,2,4-Trimethylbenzene | **21** | | ug/l | 5 | 20 | | 106 | 75-120 | 4 | 30 |
| 1,2,4-Trichlorobenzene | **20** | | ug/l | 5 | 20 | | 100 | 63-120 | 2 | 30 |
| 1,2-Dibromo-3-chloropropane | **20** | | ug/l | 5 | 20 | | 99 | 47-131 | 0 | 30 |
| 1,2-Dichlorobenzene | **21** | | ug/l | 5 | 20 | | 105 | 80-120 | 3 | 30 |
| 1,2-Dichloroethane | **23** | | ug/l | 1 | 20 | | 113 | 73-124 | 4 | 30 |
| 1,2-Dichloropropane | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | 7 | 30 |
| 1,3,5-Trichlorobenzene | **21** | | ug/l | 5 | 20 | | 103 | 66-123 | 4 | 30 |
| Carbon Disulfide | **19** | | ug/l | 5 | 20 | | 94 | 65-128 | 5 | 30 |
| Methyl Tertiary Butyl Ether | **20** | | ug/l | 1 | 20 | | 98 | 69-122 | 5 | 30 |
| 1,1-Dichloropropene | **22** | | ug/l | 5 | 20 | | 109 | 78-120 | 6 | 30 |
| Benzene | **21** | | ug/l | 1 | 20 | | 107 | 80-120 | 4 | 30 |
| Bromoform | **21** | | ug/l | 4 | 20 | | 104 | 51-120 | 1 | 30 |
| Bromomethane | **16** | | ug/l | 1 | 20 | | 78 | 53-128 | 4 | 30 |
| 1,2-Dibromoethane | **21** | | ug/l | 1 | 20 | | 104 | 77-120 | 3 | 30 |
| 1,3-Dichloropropane | **20** | | ug/l | 1 | 20 | | 101 | 80-120 | 2 | 30 |
| Bromodichloromethane | **23** | | ug/l | 1 | 20 | | 115 | 71-120 | 4 | 30 |
| Bromochloromethane | **20** | | ug/l | 5 | 20 | | 98 | 80-120 | 5 | 30 |
| Bromobenzene | **20** | | ug/l | 5 | 20 | | 102 | 80-120 | 1 | 30 |
| Acrylonitrile | **92** | | ug/l | 20 | 100 | | 92 | 60-129 | 3 | 30 |
| Acetone | **160** | | ug/l | 20 | 150 | | 105 | 54-157 | 6 | 30 |
| 4-Methyl-2-pentanone | **93** | | ug/l | 10 | 100 | | 93 | 62-133 | 4 | 30 |
| 2-Butanone | **150** | | ug/l | 10 | 150 | | 99 | 59-135 | 4 | 30 |
| 1,4-Dichlorobenzene | **21** | | ug/l | 5 | 20 | | 104 | 80-120 | 2 | 30 |
| 4-Chlorotoluene | **21** | | ug/l | 5 | 20 | | 104 | 80-120 | 5 | 30 |
| 2,2-Dichloropropane | **22** | | ug/l | 1 | 20 | | 110 | 55-142 | 4 | 30 |
| 2-Hexanone | **88** | | ug/l | 10 | 100 | | 88 | 56-135 | 1 | 30 |
| 1,4-Dioxane | **460** | | ug/l | 250 | 500 | | 93 | 63-146 | 7 | 30 |
| 2-Chlorotoluene | **21** | | ug/l | 5 | 20 | | 107 | 80-120 | 4 | 30 |
| *Surrogate: 1,2-Dichloroethane-d4* | *52* | | ug/l | | *50* | | *103* | *80-120* | | |
| *Surrogate: Toluene-d8* | *49* | | ug/l | | *50* | | *98* | *80-120* | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **LCSD (LCSL55Y)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| *Surrogate: Dibromofluoromethane* | *53* | | ug/l | | *50* | | *107* | *80-120* | | |
| *Surrogate: 4-Bromofluorobenzene* | *51* | | ug/l | | *50* | | *103* | *80-120* | | |
| **LCS (LCSL56Q)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| Ethyl ether | **17** | | ug/l | 5 | 20 | | 85 | 59-141 | | |
| **LCSD (LCSL56Y)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| Ethyl ether | **17** | | ug/l | 5 | 20 | | 84 | 59-141 | 1 | 30 |
| **Blank (VBLKL55B)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| 1,3,5-Trimethylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,3,5-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,4-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,3-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 1,3-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,4-Dioxane | < 250 | | ug/l | 250 | | | | - | | |
| 2,2-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 2-Hexanone | < 10 | | ug/l | 10 | | | | - | | |
| 2-Chlorotoluene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2-Dichloropropane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,2,2-Tetrachloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 4-Chlorotoluene | < 5 | | ug/l | 5 | | | | - | | |
| 2-Butanone | < 10 | | ug/l | 10 | | | | - | | |
| 1,2,3-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| Chlorobenzene | < 1 | | ug/l | 1 | | | | - | | |
| 4-Methyl-2-pentanone | < 10 | | ug/l | 10 | | | | - | | |
| 1,1,1,2-Tetrachloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,1-Trichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1,2-Trichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1-Dichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,1-Dichloropropene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2-Dichloroethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2,3-Trichloropropane | < 5 | | ug/l | 5 | | | | - | | |
| 1,2,4-Trichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2,4-Trimethylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,2-Dibromo-3-chloropropane | < 5 | | ug/l | 5 | | | | - | | |
| 1,2-Dibromoethane | < 1 | | ug/l | 1 | | | | - | | |
| 1,2-Dichlorobenzene | < 5 | | ug/l | 5 | | | | - | | |
| 1,1-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| t-Butyl alcohol | < 50 | | ug/l | 50 | | | | - | | |
| Isopropylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Carbon Disulfide | < 5 | | ug/l | 5 | | | | - | | |
| Methyl Tertiary Butyl Ether | < 1 | | ug/l | 1 | | | | - | | |
| Methylene Chloride | < 1 | | ug/l | 1 | | | | - | | |
| Naphthalene | < 5 | | ug/l | 5 | | | | - | | |
| n-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| n-Propylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| o-Xylene | < 1 | | ug/l | 1 | | | | - | | |
| p-Isopropyltoluene | < 5 | | ug/l | 5 | | | | - | | |
| sec-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Acetone | < 20 | | ug/l | 20 | | | | - | | |
| t-Amyl methyl ether | < 5 | | ug/l | 5 | | | | - | | |
| Hexachlorobutadiene | < 5 | | ug/l | 5 | | | | - | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **SW-846 8260C** | | | | | | | | | | |
| **Batch L190631AA - SW-846 5030C** | | | | | | | | | | |
| **Blank (VBLKL55B)** | | | | | | Prepared & Analyzed: 04-Mar-19 | | | | |
| tert-Butylbenzene | < 5 | | ug/l | 5 | | | | - | | |
| Tetrachloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Tetrahydrofuran | < 10 | | ug/l | 10 | | | | - | | |
| Toluene | < 1 | | ug/l | 1 | | | | - | | |
| trans-1,2-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| trans-1,3-Dichloropropene | < 1 | | ug/l | 1 | | | | - | | |
| trans-1,4-Dichloro-2-butene | < 50 | | ug/l | 50 | | | | - | | |
| Trichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Trichlorofluoromethane | < 1 | | ug/l | 1 | | | | - | | |
| Vinyl Chloride | < 1 | | ug/l | 1 | | | | - | | |
| Styrene | < 5 | | ug/l | 5 | | | | - | | |
| Chloromethane | < 1 | | ug/l | 1 | | | | - | | |
| Acrylonitrile | < 20 | | ug/l | 20 | | | | - | | |
| Benzene | < 1 | | ug/l | 1 | | | | - | | |
| Bromobenzene | < 5 | | ug/l | 5 | | | | - | | |
| Bromochloromethane | < 5 | | ug/l | 5 | | | | - | | |
| Bromodichloromethane | < 1 | | ug/l | 1 | | | | - | | |
| Bromoform | < 4 | | ug/l | 4 | | | | - | | |
| Bromomethane | < 1 | | ug/l | 1 | | | | - | | |
| Carbon Tetrachloride | < 1 | | ug/l | 1 | | | | - | | |
| m+p-Xylene | < 5 | | ug/l | 5 | | | | - | | |
| Chloroform | < 1 | | ug/l | 1 | | | | - | | |
| Freon 113 | < 10 | | ug/l | 10 | | | | - | | |
| di-Isopropyl ether | < 1 | | ug/l | 1 | | | | - | | |
| Ethylbenzene | < 1 | | ug/l | 1 | | | | - | | |
| Ethyl t-butyl ether | < 1 | | ug/l | 1 | | | | - | | |
| Ethyl ether | < 5 | | ug/l | 5 | | | | - | | |
| Chloroethane | < 1 | | ug/l | 1 | | | | - | | |
| Ethanol | < 750 | | ug/l | 750 | | | | - | | |
| cis-1,2-Dichloroethene | < 1 | | ug/l | 1 | | | | - | | |
| Dichlorodifluoromethane | < 1 | | ug/l | 1 | | | | - | | |
| Dibromomethane | < 1 | | ug/l | 1 | | | | - | | |
| Dibromochloromethane | < 1 | | ug/l | 1 | | | | - | | |
| cis-1,3-Dichloropropene | < 1 | | ug/l | 1 | | | | - | | |
| *Surrogate: Dibromofluoromethane* | *53* | | ug/l | | *50* | | *105* | *80-120* | | |
| *Surrogate: 4-Bromofluorobenzene* | *50* | | ug/l | | *50* | | *100* | *80-120* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51* | | ug/l | | *50* | | *102* | *80-120* | | |
| *Surrogate: Toluene-d8* | *48* | | ug/l | | *50* | | *96* | *80-120* | | |
| **SW-846 9012B** | | | | | | | | | | |
| **Batch 19058117101B - METHOD** | | | | | | | | | | |
| **Blank (P05817ABB)** | | | | | | Prepared: 27-Feb-19 Analyzed: 28-Feb-19 | | | | |
| Total Cyanide (water) | < 0.010 | | mg/l | 0.010 | | | | - | | |
| **LCS (P05817AQQ)** | | | | | | Prepared: 27-Feb-19 Analyzed: 28-Feb-19 | | | | |
| Total Cyanide (water) | **0.21** | | mg/l | 0.010 | 0.20 | | 103 | 90-110 | | |

## Notes and Definitions

| | |
|---|---|
| E. | Exceeded calibration range of the instrument |
| J | Estimated value |
| K3 | Initial Calibration Verification is above QC limit and the sample result is ND |
| dry | Sample results reported on a dry weight basis |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| OG | The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664B can only be analyzed when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample volume was submitted to fulfill the requirement. |

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Fed Ex # 8139 4282 5307

SC53632 By

eurofins | Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 1 of 1

**Special Handling:**

- [X] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: AECOM
40 British American Blvd.
Latham NY 12110

Telephone #: 518-951-2200
Project Mgr: Stephen Choiniere

Invoice To: Same

P.O No.: _____ Quote #: _____

Project No: 60276639.1
Site Name: Now Corp / 3-14-008
Location: Staatsburg State: NY
Sampler(s): SRG

F=Field Filtered 1=$Na_2S2O_3$ 2=HCl 3=$H_2SO_4$ 4=$HNO_3$ 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=$H_3PO_4$ 11= None 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

| Lab ID: | Sample ID: | Date: | Time: | Type | Matrix | Containers: # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic | List Preservative Code below: 2 | 4 | 11 | 3 | 5 | Analysis: 8260 | Metals* | TSS/TDS | O+G | Cyanide | Check if chlorinated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC53632-01 | EFF60022119 | 2/21/19 | 1230 | G | GW | 3 | 1 | | 4 | | | | | | X | X | X | X | X | |
| 02 | INF 022119 | | 1223 | | | | 1 | | 4 | | | | | | | X | X | X | X | |
| 03 | TW-1 022119 | | 1220 | | | | | | | | | | | | | | | | | |
| 04 | TW-2A 022119 | | 1240 | | | | | | | | | | | | | | | | | |
| 05 | TW-3 022119 | | 1237 | | | | | | | | | | | | | | | | | |
| 06 | TB 022119 | — | — | — | — | 2 | | | | | | | | | | | | | | |

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [ ] Yes [ ] No
[ ] Standard [ ] No QC
[ ] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[ ] Other: _____
State-specific reporting standards:

*Al, Ba, As, Cr, Cu, Fe, Mn, Hg, Zn, Ni

| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Stn | Fedex | 2/21/19 | 1625 |
| Fedex | | 2/22/19 | 12:00 |

Temp °C: Observed 4.6; Correction Factor 0; Corrected 4.6; IR ID # 1

[ ] EDD format: _____
[ ] E-mail to: _____

Condition upon receipt: Custody Seals: [✓] Present [ ] Intact [ ] Broken
[ ] Ambient [✓] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen

00086

00100

FedEx Express **Package US Airbill**

FedEx Tracking Number **8139 4282 5307**

MUR3

Form ID No. 0215

**Recipient's Copy**

**1 From**

Date 2-21-19

Sender's Name Steve Gray Phone 518 951-2200

Company AECOM TECHNICAL SERVICES

Address 40 BRITISH AMERICAN BLVD

Dept./Floor/Suite/Room

City LATHAM State NY ZIP 12110-1421

**2 Your Internal Billing Reference** 60276639-1

**3 To**

Recipient's Name Attn: Sample Receipt Phone 413 789-9018

Company Eurofins Spectrum Analytical

Address 11 Almgren Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0132325350

8139 4282 5307

**4 Express Package Service** * To most locations.

***Packages up to 150 lbs.***
*For packages over 150 lbs., use the FedEx Express Freight US Airbill.*

**Next Business Day**

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

**2 or 3 Business Days**

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

**5 Packaging** * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

**6 Special Handling and Delivery Signature Options** Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

**Does this shipment contain dangerous goods?**

One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

**7 Payment** *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check

[redacted]

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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# Batch Summary

**1900248**

*Total Metals by EPA 200/6000 Series Methods*

SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**19057385802A**

*Subcontracted Analyses*

B057712B
L057712Q
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**19057964902A**

*Subcontracted Analyses*

B057882B
L057882Q
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**19058117101B**

*Subcontracted Analyses*

P05817ABB
P05817AQQ
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**190590571303**

*Subcontracted Analyses*

P05971CBB
P05971CQQ
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**190641404707A**

*Subcontracted Analyses*

P06404GBB
P06404GQQ
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**468234A**

*Subcontracted Analyses*

CC57544-BLK
CC57544-LCS
CC57544-LCSD
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)

**L190591AA**

*Subcontracted Analyses*

LCSL46Q
LCSL46Y
LCSL47Q
LCSL47Y
SC53632-01 (EFF 60 022119)
SC53632-02 (INF 022119)
SC53632-03 (TW-1 022119)
SC53632-04 (TW-2A 022119)
SC53632-04RE01 (TW-2A 022119)
SC53632-05 (TW-3 022119)
SC53632-06 (TB 022119)
VBLKL46B

**L190631AA**

*Subcontracted Analyses*

LCSL55Q
LCSL55Y
LCSL56Q
LCSL56Y
SC53632-02RE01 (INF 022119)
VBLKL55B