



# Sampling and Analysis Report

Lockport City Landfill  
Site No. 932010

City of Lockport  
Lockport, New York

December 2015

**SAMPLING AND ANALYSIS REPORT  
LOCKPORT CITY LANDFILL**

**FOR**

**OCTOBER 22, 2015  
(YEAR - 19)**

**LOCKPORT CITY LANDFILL  
NYSDEC SITE NO. 9-32-010**

**Prepared for:**

**CITY OF LOCKPORT, NEW YORK  
DEPARTMENT OF PUBLIC WORKS**

**Prepared by:**

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**DECEMBER 2015**

**PROJECT NO. 8612191**

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## **SECTION 1 - INTRODUCTION**

The Lockport City Landfill site is located on Oakhurst Street in the City of Lockport, Niagara County, New York. The landfill, assigned the Site Registry Number 9-32-010, is the subject of this report.

The Remedial Action Design as approved by the New York State Department of Environmental Conservation (NYSDEC) for the site; included a Long Term Monitoring Plan and Operation and Maintenance Plan. The purpose of the long term monitoring plan is to provide information to evaluate and monitor the long term effectiveness of the remedial work. The Operation and Maintenance Plan includes regular site inspections and analytical testing to identify any potential problems at the landfill that are not being adequately addressed by routine maintenance, and to document the current condition of the landfill. A site plan of the Lockport City Landfill is presented on Figure 1.

The Long Term Monitoring Program started in 1997; six (6) events were conducted in the first five (5) years (two events in 1997 and one event per year afterwards). This is the 4<sup>th</sup> monitoring event of the Long Term Monitoring contract dated July 25, 2012 between GHD Consulting Services, Inc. and the City of Lockport. The purpose of this report is to present the findings of the 19<sup>th</sup> sampling event conducted at the Lockport City Landfill on October 22, 2015. The present contract includes 5 years of service with the last year of service scheduled for 2016.

## **SECTION 2 - LONG TERM MONITORING**

In accordance with the NYSDEC approved Long Term Monitoring Plan, and included in the Operation and Maintenance Plan, five (5) groundwater wells, and one (1) outfall were sampled by GHD Consulting Services, Inc. on October 22, 2015. During sampling of groundwater at Monitoring Well MW-6D, physical water quality parameters were unable to be tested for due to a negligible amount of water in the well, but there was enough volume to sample for the required volatile organic compounds (VOC's). Historically, monitoring well MW-6D could not be sampled due to lack of available groundwater present at the time of sampling.

The samples were delivered to ESC Lab Sciences, 12065 Lebanon Road, Mt. Juliet, Tennessee 37122, and analyzed for Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) CLP Statement of Work (SOW) OLM04.2.



Analytical data sheets are provided in Appendix A and Groundwater Field Sampling Records are presented in Appendix B. Table 1 summarizes analytical testing data from groundwater samples collected from monitoring wells and the outfall for past 19 years.

Groundwater sampling and analytical testing is presented for the monitoring years of 1997 through 2015. The established action levels for Monitoring Wells MW-8D, MW-9S and MW-9I, and Outfall L2 are noted on Table 1. Analytical test results presented on Table 1 indicate that there were no exceedances detected above the reported action levels. Since exceedances did not occur, contingent sampling and analysis are not required. The next sampling event will be scheduled for October 2016 representing year 20 of the Long Term Monitoring Program.

In past reporting, 1,2-Dichloroethene (total) was reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene. Reporting in 2007 was the first year GHD conducted sampling and reporting. For purposes of presenting the analytical test results in a more definitive manner, analytical test results for reporting years of 2007 through 2015 as presented on Table 1 has been presented in the 2015 report to include detected concentrations of cis-1,2-Dichloroethene and not reported as concentrations of 1,2-Dichloroethene (total).

The volatile organic analytical test results detected concentrations of cis-1,2-Dichloroethene in groundwater sampled from Monitoring Wells MW-8D and MW-9I.

The volatile organic analytical test results detected concentrations of Carbon Disulfide and 1,1-Dichloroethane in groundwater sampled from Monitoring Well MW-3S. Detected concentrations of Carbon Disulfide continued in 2015 from being first detected in groundwater sampled in 2014 from Monitoring Well MW-3S.

Non detectable test results were received from groundwater sampled from Monitoring Wells MW-6D and MW-9S and Outfall L-2.

## TABLES

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**TABLE 1**  
**MONITORING WELL 3S**  
**GROUNDWATER ANALYTICAL TEST RESULTS**  
**LOCKPORT CITY LANDFILL**

| Volatile Compounds         | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Vinyl chloride             | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromomethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Acetone                    | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | 6 J    | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethene         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon disulfide           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Methylene chloride         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethene (total) | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1, 2-Dichloroethene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethane         | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | 1 J    | U      | U      | 3 J    | 2 J    | 3 J    | 2.8 J  | U      | 1.8    | 1.4    | 1.6    |
| 2-Butanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,2-Dichloroethene     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 4 J    | 3 J    | 2 J    | 4 J    | 3.2 J  | U      | U      | U      | U      |
| Chloroform                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon tetrachloride       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Benzene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Trichloroethene            | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloropropane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromodichloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 4-Methyl-2-pentanone       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,3-Dichloropropene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Toluene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1,3-Dichloropropene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Hexanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Tetrachloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Dibromochloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chlorobenzene              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Ethylbenzene               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| m,p-Xylene                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| o-Xylene                   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Styrene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromoform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2,2-Tetrachloroethane  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |

**Notes:**

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

TABLE 1 (Cont'd)  
MONITORING WELL 6D  
GROUNDWATER ANALYTICAL RESULTS  
LOCKPORT CITY LANDFILL

| Volatile Compounds         | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Vinyl chloride             | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromomethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Chloroethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Acetone                    | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | 2 J    | 16     | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,1-Dichloroethene         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Carbon disulfide           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Methylene chloride         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,2-Dichloroethene (total) | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| trans-1, 2-Dichloroethene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,1-Dichloroethane         | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | 1 J    | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 2-Butanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| cis-1,2-Dichloroethene     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Chloroform                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,1,1-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Carbon tetrachloride       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Benzene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,2-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Trichloroethene            | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,2-Dichloropropane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Bromodichloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 4-Methyl-2-pentanone       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| cis-1,3-Dichloropropene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Toluene                    | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | 2 J    | 2 J    | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| trans-1,3-Dichloropropene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,1,2-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 2-Hexanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Tetrachloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Dibromochloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Chlorobenzene              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Ethylbenzene               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Xylene (Total)             | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Styrene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Bromoform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| 1,1,2,2-Tetrachloroethane  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |

Notes:

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

- = not sampled

NS = no standard

2007, 2008, 2009, 2010, 2011, 2012 : MW-6D not sampled due to dry conditions, no groundwater available

TABLE 1 (Cont'd)  
MONITORING WELL 8D  
GROUNDWATER ANALYTICAL TEST RESULTS  
LOCKPORT CITY LANDFILL

| Volatle Compounds          | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Vinyl chloride             | µg/L  | 162          | U      | U      | U      | U      | U      | 7      | 33     | 6      | 4J     | U      | U      | U      | U      | U      | U      | U      | U      | U      | 2.1    | U      |
| Bromomethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Acetone                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethene         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon disulfide           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Methylene chloride         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethene (total) | µg/L  | 1,580        | 100    | 90     | 110    | 18     | 25     | 41     | 120    | 7      | 28     | 27 J   | 40     | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1, 2-Dichloroethene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Butanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,2-Dichloroethene     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 32     | 34     | 26     | 23     | 24     | 65     | 26     | 21     | 22     |
| Chloroform                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon tetrachloride       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Benzene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Trichloroethene            | µg/L  | 260          | 2      | 4      | 5      | 2      | 2      | 2      | U      | U      | U      | U      | 1 J    | U      | U      | U      | U      | 3.2 J  | U      | U      | U      | U      |
| 1,2-Dichloropropane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromodichloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 4-Methyl-2-pentanone       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,3-Dichloropropene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Toluene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1,3-Dichloropropene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Hexanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Tetrachloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Dibromochloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chlorobenzene              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Ethylbenzene               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| m,p-Xylene                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| o-Xylene                   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Styrene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromoform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2,2-Tetrachloroethane  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |

Notes:

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

TABLE 1 (Cont'd)  
MONITORING WELL 9S  
GROUNDWATER ANALYTICAL TEST RESULTS  
LOCKPORT CITY LANDFILL

| Volatiles Compounds        | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Vinyl chloride             | µg/L  | 162          | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromomethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Acetone                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethene         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon disulfide           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Methylene chloride         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethene (total) | µg/L  | 1,580        | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1, 2-Dichloroethene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Butanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1, 2-Dichloroethene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | 2      | U      |
| Chloroform                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon tetrachloride       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Benzene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Trichloroethene            | µg/L  | 260          | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloropropane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromodichloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 4-Methyl-2-pentanone       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,3-Dichloropropene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Toluene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1,3-Dichloropropene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Hexanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Tetrachloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Dibromochloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chlorobenzene              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Ethylbenzene               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| m,p-Xylene                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| o-Xylene                   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Styrene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromoform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1,2-Tetrachloroethane  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |

Notes:

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

TABLE 1 (Cont'd)  
MONITORING WELL 91  
GROUNDWATER ANALYTICAL TEST RESULTS  
LOCKPORT CITY LANDFILL

| Volatile Compounds         | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Vinyl chloride             | µg/L  | 24           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromomethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Acetone                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethene         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon disulfide           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Methylene chloride         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethene (total) | µg/L  | 42           | 8.4    | 6      | 6      | 5      | 4 J    | 4 J    | 4 J    | 4 J    | 3 J    | 3 J    | 2 J    | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1, 2-Dichloroethene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Butanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,2-Dichloroethene     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 3 J    | 2 J    | U      | 2 J    | U      | U      | 1.3    | U      | 1.8    |
| Chloroform                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon tetrachloride       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Benzene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Trichloroethene            | µg/L  | NS           | 1.6    | 2      | 2      | 1 J    | 1 J    | 1 J    | 1 J    | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloropropane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromodichloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 4-Methyl-2-pentanone       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,3-Dichloropropene    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Toluene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1,3-Dichloropropene  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2-Trichloroethane      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Hexanone                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Tetrachloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Dibromochloromethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chlorobenzene              | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Ethylbenzene               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| m,p-Xylene                 | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| o-Xylene                   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Styrene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromoform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2,2-Tetrachloroethane  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |

Notes:

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

TABLE 1 (Cont'd)  
OUTFALL L-2  
GROUNDWATER ANALYTICAL TEST RESULTS  
LOCKPORT CITY LANDFILL

| Volatle Compounds           | Units | Action Level | Jun-97 | Nov-97 | Sep-98 | Sep-99 | Sep-00 | Sep-01 | Oct-02 | Dec-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 |
|-----------------------------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Chloromethane               | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Vinyl chloride              | µg/L  | 94           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromomethane                | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroethane                | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Acetone                     | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | 2J     | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethene          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon disulfide            | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Methylene chloride          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethene (total)  | µg/L  | 280          | U      | 2      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1, 2-Dichloroethene   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1-Dichloroethane          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Butanone                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,2-Dichloroethene      | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chloroform                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1-Trichloroethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Carbon tetrachloride        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Benzene                     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloroethane          | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Trichloroethene             | µg/L  | NS           | U      | 3      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,2-Dichloropropane         | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromodichloromethane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 4-Methyl-2-pentanone        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| cis-1,3-Dichloropropene     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Toluene                     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| trans-1,3-Dichloropropene   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,2-Trichloroethane       | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 2-Hexanone                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Tetrachloroethene           | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Dibromochloromethane        | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Chlorobenzene               | µg/L  | NS           | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Ethylbenzene                | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| m,p-Xylene                  | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| o-Xylene                    | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Styrene                     | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| Bromoform                   | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |
| 1,1,1,2,2-Tetrachloroethane | µg/L  | NS           | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | U      | U      | U      | U      | U      | U      | U      | U      | U      |

Notes:

VOC analysis by USEPA CLP SOW OLM04.2

U = not detected above the quantitation limit

J = estimated concentration

NS = no standard

- = not sampled for

1,2-Dichloroethene (Total) is reported in years (1997-2006) as the sum of the detected concentrations of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene



**JOB No.:8612191**

## APPENDICES

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## **APPENDIX A**

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**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/22/15

Sampler: Brian Doyle

SAMPLE ID MW-8D

Depth of well (from top of casing)..... 76.67 ft  
Initial static water level (from top of casing).... 71.9 ft

**Evacuation Method:**

**Well Volume Calculation**

|             |                             |                  |                             |              |                                                  |                                     |
|-------------|-----------------------------|------------------|-----------------------------|--------------|--------------------------------------------------|-------------------------------------|
| Submersible | <u>                    </u> | Centrifugal      | <u>                    </u> | 2in. casing: | <u>4.77</u> ft. of water x .16 =                 | <u>0.76</u> gallons                 |
| Airlift     | <u>                    </u> | Pos. Displ.      | <u>                    </u> | 3in. casing: | <u>                    </u> ft. of water x .36 = | <u>                    </u> gallons |
| Bailer      | <u>X</u>                    | >>> No. of bails | <u>                    </u> | 4in. casing: | <u>                    </u> ft. of water x .65 = | <u>                    </u> gallons |

Volume of water removed 1.00 gals.  
> 3 volumes:      yes ☐ no ☐  
dry:                ☐ yes ☐ no ☐

|              |              |                   |
|--------------|--------------|-------------------|
| Field Tests: | Temp:        | <u>13.6 C</u>     |
|              | pH           | <u>7.94</u>       |
|              | Conductivity | <u>2.51 mS/cm</u> |
|              | DO           | <u>5.78 mg/l</u>  |
|              | Turbidity    | <u>105 NTUs</u>   |
|              | Salinity     | <u>0.13 %</u>     |

Sampling: Time: 11:00 AM

Sampling Method:    Stainless Steel Bailer                       
                             Disposable Bailer X  
                             Disposable Pump                       
                             Other                     

**Observations:**

Weather/Temperature: Overcast, 60°

Physical Appearance and Odor of Sample: Clear, then light brown

Comments: Well purged dry after 1.0 gallons.  
Well pad is intact and the stickup protective cover is in good condition.

|          |                               |           |                 |
|----------|-------------------------------|-----------|-----------------|
| SITE     | <u>Lockport City Landfill</u> | DATE      | <u>10/22/15</u> |
| Sampler: | <u>Brian Doyle</u>            | SAMPLE ID | <u>MW-6D</u>    |

**GHD Inc.**

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/22/15

Sampler: Brian Doyle

SAMPLE ID MW-9S

Depth of well (from top of casing)..... 12.36 ft  
Initial static water level (from top of casing).... 7.0 ft

**Evacuation Method:**

**Well Volume Calculation**

|             |                   |                  |                   |              |                                        |                           |
|-------------|-------------------|------------------|-------------------|--------------|----------------------------------------|---------------------------|
| Submersible | <u>          </u> | Centrifugal      | <u>          </u> | 2in. casing: | <u>5.36</u> ft. of water x .16 =       | <u>0.86</u> gallons       |
| Airlift     | <u>          </u> | Pos. Displ.      | <u>          </u> | 3in. casing: | <u>          </u> ft. of water x .36 = | <u>          </u> gallons |
| Bailer      | <u>X</u>          | >>> No. of bails | <u>          </u> | 4in. casing: | <u>          </u> ft. of water x .65 = | <u>          </u> gallons |

Volume of water removed 2.57 gals.  
> 3 volumes: ☐ yes ☐ no  
dry: ☐ yes ☐ no

Field Tests: Temp: 14.3 C  
pH 7.27  
Conductivity 1.55 mS/cm  
DO 4.93 mg/l  
Turbidity 555 NTUs  
Salinity 0.08 %

Sampling: Time: 1:30 PM

Sampling Method: Stainless Steel Bailer             
Disposable Bailer X  
Disposable Pump             
Other           

**Observations:**

Weather/Temperature: Overcast, 60°

Physical Appearance and Odor of Sample: Light brown, then very turbid, brown, no odor.

Comments: Well pad is intact and the stickup protective cover is in good condition.

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/22/15

Sampler: Brian Doyle

SAMPLE ID MW-91

Depth of well (from top of casing)..... 19.99 ft  
Initial static water level (from top of casing).... 6.0 ft

**Evacuation Method:**

**Well Volume Calculation**

|             |                   |                  |                   |              |                                        |                           |
|-------------|-------------------|------------------|-------------------|--------------|----------------------------------------|---------------------------|
| Submersible | <u>          </u> | Centrifugal      | <u>          </u> | 2in. casing: | <u>13.99</u> ft. of water x .16 =      | <u>2.24</u> gallons       |
| Airlift     | <u>          </u> | Pos. Displ.      | <u>          </u> | 3in. casing: | <u>          </u> ft. of water x .36 = | <u>          </u> gallons |
| Bailer      | <u>  X  </u>      | >>> No. of bails | <u>          </u> | 4in. casing: | <u>          </u> ft. of water x .65 = | <u>          </u> gallons |

Volume of water removed 6.72 gals.  
> 3 volumes: ☒ yes ☐ no  
dry: ☐ yes ☒ no

Field Tests: Temp: 13.8 C  
pH 7.12  
Conductivity 1.35 mS/cm  
DO 4.3 mg/l  
Turbidity 35 NTUs  
Salinity 0.09 %

Sampling: Time: 2:00 PM

Sampling Method: Stainless Steel Bailer             
Disposable Bailer   X    
Disposable Pump             
Other           

**Observations:**

Weather/Temperature: Overcast, 60°

Physical Appearance and Odor of Sample: Initially reddish brown, no odor, then clear

Comments: Well pad is intact and the stickup protective cover is in good condition. Lock was cut for well access.  
Lock needs replacement

**GHD INC.**  
**GROUNDWATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/22/15

Sampler: Brian Doyle

SAMPLE ID MW-3S

Depth of well (from top of casing)..... 13.24 ft  
Initial static water level (from top of casing).... 3.8 ft

**Evacuation Method:**

**Well Volume Calculation**

|             |                   |                  |                   |              |                                        |                           |
|-------------|-------------------|------------------|-------------------|--------------|----------------------------------------|---------------------------|
| Submersible | <u>          </u> | Centrifugal      | <u>          </u> | 2in. casing: | <u>9.49</u> ft. of water x .16 =       | <u>1.52</u> gallons       |
| Airlift     | <u>          </u> | Pos. Displ.      | <u>          </u> | 3in. casing: | <u>          </u> ft. of water x .36 = | <u>          </u> gallons |
| Bailer      | <u>X</u>          | >>> No. of bails | <u>          </u> | 4in. casing: | <u>          </u> ft. of water x .65 = | <u>          </u> gallons |

Volume of water removed 1.75 gals.  
> 3 volumes:      yes ☐ no ☐  
dry:                      yes ☐ no ☐

Field Tests:      Temp: 14.27 C  
                    pH 6.8  
                    Conductivity 3.89 mS/cm  
                    DO 3.76 mg/l  
                    Turbidity 576 NTUs  
                    Salinity 0.15 %

Sampling: Time: 1:00 PM

Sampling Method:    Stainless Steel Bailer             
                            Disposable Bailer X  
                            Disposable Pump             
                            Other           

**Observations:**

Weather/Temperature: Partly sunny, 60°

Physical Appearance and Odor of Sample: No odor, reddish-brown color, then dark brown

Comments: Debris around monitoring well.  
Unable to fully purge well due to obstruction in well between the riser and the screen.  
Well pad is intact and the stickup protective cover is in good condition.

**GHD INC.**  
**SURFACE WATER FIELD SAMPLING RECORD**

SITE Lockport City Landfill

DATE 10/22/15

Samplers: Brian Doyle

SAMPLE ID Outfall L-2

**Sampling Method:**

Submersible GRAB Centrifugal \_\_\_\_\_

Airlift \_\_\_\_\_ Pos. Displ. \_\_\_\_\_

Bailer \_\_\_\_\_ >>> No. of bails \_\_\_\_\_

Field Tests: Temp: 13.91 C  
pH 7.69  
Conductivity 1.5 mS/cm  
DO 9.87 mg/l  
Turbidity 227 NTUs  
Salinity 0.1 %

Sampling: Time: 12:30 PM

Sampling Method: Stainless Steel Bailer \_\_\_\_\_  
Teflon Bailer \_\_\_\_\_  
Disposable Pump \_\_\_\_\_  
Other Grab

Observations: \_\_\_\_\_

Weather/Temperature: Partly sunny, 60°

Physical Appearance and Odor of Sample: No odor, light brown color, slightly turbid.

Comments: Iron bacteria was present on outfall and rocks.

## **APPENDIX B**

---



# ANALYTICAL REPORT

October 30, 2015

## GHD

Sample Delivery Group: L796378  
Samples Received: 10/23/2015  
Project Number: 8612191-01-  
Description: Groundwater Sampling Lockport Landfill

Report To: Mr. Dave Rowlinson  
285 Delaware Ave.  
Suite 500  
Buffalo, NY 14202

Entire Report Reviewed By:



T. Alan Harvill  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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## SAMPLE SUMMARY

ONE LAB. NATIONWIDE



## MW-8D L796378-01 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824424 | 1        | 10/28/15 18:09        | 10/28/15 18:09     | DAH              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 11:00Received date/time  
10/23/15 09:00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

## MW-6D L796378-02 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824424 | 1        | 10/28/15 18:30        | 10/28/15 18:30     | DAH              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 12:00Received date/time  
10/23/15 09:00

## MW-9I L796378-03 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824424 | 1        | 10/28/15 18:52        | 10/28/15 18:52     | DAH              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 14:00Received date/time  
10/23/15 09:00

## MW-9S L796378-04 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824424 | 1        | 10/28/15 19:13        | 10/28/15 19:13     | DAH              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 13:30Received date/time  
10/23/15 09:00

## MW-3S L796378-05 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824591 | 1        | 10/29/15 16:41        | 10/29/15 16:41     | DWR              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 13:00Received date/time  
10/23/15 09:00

## OUTFALL L-2 L796378-06 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824591 | 1        | 10/29/15 16:59        | 10/29/15 16:59     | DWR              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 12:30Received date/time  
10/23/15 09:00

## TRIP BLANK L796378-07 GW

| Method                                             | Batch    | Dilution | Preparation date/time | Analysis date/time | Analysis Analyst |
|----------------------------------------------------|----------|----------|-----------------------|--------------------|------------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG824591 | 1        | 10/29/15 13:24        | 10/29/15 13:24     | JHH              |

Collected by  
Brian DoyleCollected date/time  
10/22/15 00:00Received date/time  
10/23/15 09:00



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Collected date/time: 10/22/15 11:00

L796378

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/28/2015 18:09        | WG824424 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/28/2015 18:09        | WG824424 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| cis-1,2-Dichloroethene         | 22.0           |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/28/2015 18:09        | WG824424 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/28/2015 18:09        | WG824424 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/28/2015 18:09        | WG824424 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/28/2015 18:09        | WG824424 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/28/2015 18:09        | WG824424 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/28/2015 18:09        | WG824424 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/28/2015 18:09        | WG824424 |
| (S) Toluene-d8                 | 103            |           | 90.0-115    |          | 10/28/2015 18:09        | WG824424 |
| (S) Dibromofluoromethane       | 99.4           |           | 79.0-121    |          | 10/28/2015 18:09        | WG824424 |
| (S) a,a,a-Trifluorotoluene     | 99.1           |           | 90.4-116    |          | 10/28/2015 18:09        | WG824424 |
| (S) 4-Bromofluorobenzene       | 91.6           |           | 80.1-120    |          | 10/28/2015 18:09        | WG824424 |

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/28/2015 18:30        | WG824424 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/28/2015 18:30        | WG824424 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| cis-1,2-Dichloroethene         | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/28/2015 18:30        | WG824424 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/28/2015 18:30        | WG824424 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/28/2015 18:30        | WG824424 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/28/2015 18:30        | WG824424 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/28/2015 18:30        | WG824424 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/28/2015 18:30        | WG824424 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/28/2015 18:30        | WG824424 |
| (S) Toluene-d8                 | 102            |           | 90.0-115    |          | 10/28/2015 18:30        | WG824424 |
| (S) Dibromofluoromethane       | 95.0           |           | 79.0-121    |          | 10/28/2015 18:30        | WG824424 |
| (S) a,a,a-Trifluorotoluene     | 98.9           |           | 90.4-116    |          | 10/28/2015 18:30        | WG824424 |
| (S) 4-Bromofluorobenzene       | 92.3           |           | 80.1-120    |          | 10/28/2015 18:30        | WG824424 |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



Collected date/time: 10/22/15 14:00

L796378

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/28/2015 18:52        | WG824424 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/28/2015 18:52        | WG824424 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| cis-1,2-Dichloroethene         | 1.77           |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/28/2015 18:52        | WG824424 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/28/2015 18:52        | WG824424 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/28/2015 18:52        | WG824424 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/28/2015 18:52        | WG824424 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/28/2015 18:52        | WG824424 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/28/2015 18:52        | WG824424 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/28/2015 18:52        | WG824424 |
| (S) Toluene-d8                 | 102            |           | 90.0-115    |          | 10/28/2015 18:52        | WG824424 |
| (S) Dibromofluoromethane       | 97.1           |           | 79.0-121    |          | 10/28/2015 18:52        | WG824424 |
| (S) o,o,a-Trifluorotoluene     | 98.9           |           | 90.4-116    |          | 10/28/2015 18:52        | WG824424 |
| (S) 4-Bromofluorobenzene       | 92.0           |           | 80.1-120    |          | 10/28/2015 18:52        | WG824424 |

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/28/2015 19:13        | WG824424 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/28/2015 19:13        | WG824424 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| cis-1,2-Dichloroethene         | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/28/2015 19:13        | WG824424 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/28/2015 19:13        | WG824424 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/28/2015 19:13        | WG824424 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/28/2015 19:13        | WG824424 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/28/2015 19:13        | WG824424 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/28/2015 19:13        | WG824424 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/28/2015 19:13        | WG824424 |
| (S) Toluene-d8                 | 103            |           | 90.0-115    |          | 10/28/2015 19:13        | WG824424 |
| (S) Dibromofluoromethane       | 97.9           |           | 79.0-121    |          | 10/28/2015 19:13        | WG824424 |
| (S) a,a,a-Trifluorotoluene     | 99.3           |           | 90.4-116    |          | 10/28/2015 19:13        | WG824424 |
| (S) 4-Bromofluorobenzene       | 94.0           |           | 80.1-120    |          | 10/28/2015 19:13        | WG824424 |

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc



Collected date/time: 10/22/15 13:00

L796378

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/29/2015 16:41        | WG824591 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Carbon disulfide               | 1.05           |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/29/2015 16:41        | WG824591 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1-Dichloroethane             | 1.56           |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| cis-1,2-Dichloroethene         | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/29/2015 16:41        | WG824591 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/29/2015 16:41        | WG824591 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/29/2015 16:41        | WG824591 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/29/2015 16:41        | WG824591 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/29/2015 16:41        | WG824591 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/29/2015 16:41        | WG824591 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/29/2015 16:41        | WG824591 |
| (S) Toluene-d8                 | 105            |           | 90.0-115    |          | 10/29/2015 16:41        | WG824591 |
| (S) Dibromofluoromethane       | 98.5           |           | 79.0-121    |          | 10/29/2015 16:41        | WG824591 |
| (S) α,α,α-Trifluorotoluene     | 108            |           | 90.4-116    |          | 10/29/2015 16:41        | WG824591 |
| (S) 4-Bromofluorobenzene       | 109            |           | 80.1-120    |          | 10/29/2015 16:41        | WG824591 |

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

## OUTFALL L-2

Collected date/time: 10/22/15 12:30

## SAMPLE RESULTS - 06

L796378

ONE LAB. NATIONWIDE



## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/29/2015 16:59        | WG824591 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/29/2015 16:59        | WG824591 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| cis-1,2-Dichloroethene         | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/29/2015 16:59        | WG824591 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/29/2015 16:59        | WG824591 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/29/2015 16:59        | WG824591 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/29/2015 16:59        | WG824591 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/29/2015 16:59        | WG824591 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/29/2015 16:59        | WG824591 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/29/2015 16:59        | WG824591 |
| (S) Toluene-d8                 | 104            |           | 90.0-115    |          | 10/29/2015 16:59        | WG824591 |
| (S) Dibromofluoromethane       | 94.5           |           | 79.0-121    |          | 10/29/2015 16:59        | WG824591 |
| (S) o,a,a-Trifluorotoluene     | 108            |           | 90.4-116    |          | 10/29/2015 16:59        | WG824591 |
| (S) 4-Bromofluorobenzene       | 109            |           | 80.1-120    |          | 10/29/2015 16:59        | WG824591 |

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

## TRIP BLANK

Collected date/time: 10/22/15 00:00

## SAMPLE RESULTS - 07

L796378

ONE LAB NATIONWIDE



## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                        | Result<br>ug/l | Qualifier | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch    |
|--------------------------------|----------------|-----------|-------------|----------|-------------------------|----------|
| Acetone                        | ND             |           | 50.0        | 1        | 10/29/2015 13:24        | WG824591 |
| Benzene                        | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Bromochloromethane             | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Bromodichloromethane           | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Bromoform                      | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Bromomethane                   | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Carbon disulfide               | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Carbon tetrachloride           | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Chlorobenzene                  | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Chlorodibromomethane           | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Chloroethane                   | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Chloroform                     | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Chloromethane                  | ND             |           | 2.50        | 1        | 10/29/2015 13:24        | WG824591 |
| Cyclohexane                    | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2-Dibromo-3-Chloropropane    | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2-Dibromoethane              | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,3-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,4-Dichlorobenzene            | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Dichlorodifluoromethane        | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1-Dichloroethane             | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2-Dichloroethane             | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1-Dichloroethene             | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| cis-1,2-Dichloroethene         | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| trans-1,2-Dichloroethene       | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2-Dichloropropane            | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| cis-1,3-Dichloropropene        | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| trans-1,3-Dichloropropene      | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Ethylbenzene                   | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 2-Hexanone                     | ND             |           | 10.0        | 1        | 10/29/2015 13:24        | WG824591 |
| Isopropylbenzene               | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 2-Butanone (MEK)               | ND             |           | 10.0        | 1        | 10/29/2015 13:24        | WG824591 |
| Methyl Acetate                 | ND             |           | 20.0        | 1        | 10/29/2015 13:24        | WG824591 |
| Methyl Cyclohexane             | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Methylene Chloride             | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 4-Methyl-2-pentanone (MIBK)    | ND             |           | 10.0        | 1        | 10/29/2015 13:24        | WG824591 |
| Methyl tert-butyl ether        | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Styrene                        | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1,2,2-Tetrachloroethane      | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Tetrachloroethene              | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Toluene                        | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2,3-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,2,4-Trichlorobenzene         | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1,1-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1,2-Trichloroethane          | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Trichloroethene                | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Trichlorofluoromethane         | ND             |           | 5.00        | 1        | 10/29/2015 13:24        | WG824591 |
| 1,1,2-Trichlorotrifluoroethane | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Vinyl chloride                 | ND             |           | 1.00        | 1        | 10/29/2015 13:24        | WG824591 |
| Xylenes, Total                 | ND             |           | 3.00        | 1        | 10/29/2015 13:24        | WG824591 |
| (S) Toluene-d8                 | 101            |           | 90.0-115    |          | 10/29/2015 13:24        | WG824591 |
| (S) Dibromofluoromethane       | 97.3           |           | 79.0-121    |          | 10/29/2015 13:24        | WG824591 |
| (S) a,a,a-Trifluorotoluene     | 104            |           | 90.4-116    |          | 10/29/2015 13:24        | WG824591 |
| (S) 4-Bromofluorobenzene       | 98.2           |           | 80.1-120    |          | 10/29/2015 13:24        | WG824591 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260 C

## QUALITY CONTROL SUMMARY

L796378-01.02.03.04

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 10/28/15 11:29

| Analyte                     | MB Result<br>mg/l | MB Qualifier | MB RDL<br>mg/l |
|-----------------------------|-------------------|--------------|----------------|
| Acetone                     | ND                |              | 0.0500         |
| Benzene                     | ND                |              | 0.00100        |
| Bromodichloromethane        | ND                |              | 0.00100        |
| Bromochloromethane          | ND                |              | 0.00100        |
| Bromoform                   | ND                |              | 0.00100        |
| Bromomethane                | ND                |              | 0.00500        |
| Carbon disulfide            | ND                |              | 0.00100        |
| Carbon tetrachloride        | ND                |              | 0.00100        |
| Chlorobenzene               | ND                |              | 0.00100        |
| Chlorodibromomethane        | ND                |              | 0.00100        |
| Chloroethane                | ND                |              | 0.00500        |
| Chloroform                  | ND                |              | 0.00500        |
| Chloromethane               | ND                |              | 0.00250        |
| Cyclohexane                 | ND                |              | 0.00100        |
| 1,2-Dibromo-3-Chloropropane | ND                |              | 0.00500        |
| 1,2-Dibromoethane           | ND                |              | 0.00100        |
| 1,2-Dichlorobenzene         | ND                |              | 0.00100        |
| 1,3-Dichlorobenzene         | ND                |              | 0.00100        |
| 1,4-Dichlorobenzene         | ND                |              | 0.00100        |
| Dichlorodifluoromethane     | ND                |              | 0.00500        |
| 1,1-Dichloroethane          | ND                |              | 0.00100        |
| 1,2-Dichloroethane          | ND                |              | 0.00100        |
| 1,1-Dichloroethene          | ND                |              | 0.00100        |
| cis-1,2-Dichloroethene      | ND                |              | 0.00100        |
| trans-1,2-Dichloroethene    | ND                |              | 0.00100        |
| 1,2-Dichloropropane         | ND                |              | 0.00100        |
| cis-1,3-Dichloropropene     | ND                |              | 0.00100        |
| trans-1,3-Dichloropropene   | ND                |              | 0.00100        |
| Ethylbenzene                | ND                |              | 0.00100        |
| 2-Hexanone                  | ND                |              | 0.0100         |
| Isopropylbenzene            | ND                |              | 0.00100        |
| 2-Butanone (MEK)            | ND                |              | 0.0100         |
| Methyl Acetate              | ND                |              | 0.0200         |
| Methyl Cyclohexane          | ND                |              | 0.00100        |
| Methylene Chloride          | ND                |              | 0.00500        |
| 4-Methyl-2-pentanone (MIBK) | ND                |              | 0.0100         |

Cp

Tc

Ss

Cn

Sr

Gc

GI

AI

Sc

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## QUALITY CONTROL SUMMARY

ONE LAB NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260C

L796378-01,02,03,04

## Method Blank (MB)

(MB) 10/28/15 11:29

| Analyte                        | MB Result<br>mg/l | MB Qualifier | MB RDL<br>mg/l |
|--------------------------------|-------------------|--------------|----------------|
| Methyl tert-butyl ether        | ND                |              | 0.00100        |
| Styrene                        | ND                |              | 0.00100        |
| 1,1,2,2-Tetrachloroethane      | ND                |              | 0.00100        |
| Tetrachloroethene              | ND                |              | 0.00100        |
| Toluene                        | ND                |              | 0.00500        |
| 1,1,2-Trichlorotrifluoroethane | ND                |              | 0.00100        |
| 1,2,3-Trichlorobenzene         | ND                |              | 0.00100        |
| 1,2,4-Trichlorobenzene         | ND                |              | 0.00100        |
| 1,1,1-Trichloroethane          | ND                |              | 0.00100        |
| 1,1,2-Trichloroethane          | ND                |              | 0.00100        |
| Trichloroethene                | ND                |              | 0.00100        |
| Trichlorofluoromethane         | ND                |              | 0.00500        |
| Vinyl chloride                 | ND                |              | 0.00100        |
| Xylenes, Total                 | ND                |              | 0.00300        |
| (S) Toluene-d8                 | 102               |              | 90.0-115       |
| (S) Dibromofluoromethane       | 96.0              |              | 79.0-121       |
| (S) o,p-Trifluorotoluene       | 98.4              |              | 90.4-116       |
| (S) 4-Bromofluorobenzene       | 93.2              |              | 80.1-120       |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/28/15 09:21 • (LCSD) 10/28/15 09:42

| Analyte              | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone              | 0.125                | 0.117              | 0.112               | 93.8          | 89.8           | 28.7-175         |               |                | 4.35     | 20.9            |
| Benzene              | 0.0250               | 0.0247             | 0.0248              | 98.9          | 99.2           | 73.0-122         |               |                | 0.350    | 20              |
| Bromodichloromethane | 0.0250               | 0.0230             | 0.0232              | 92.1          | 92.8           | 75.5-121         |               |                | 0.750    | 20              |
| Bromochloromethane   | 0.0250               | 0.0257             | 0.0260              | 103           | 104            | 78.9-123         |               |                | 0.860    | 20              |
| Bromoform            | 0.0250               | 0.0236             | 0.0231              | 94.5          | 92.4           | 71.5-131         |               |                | 2.27     | 20              |
| Bromomethane         | 0.0250               | 0.0211             | 0.0208              | 84.3          | 83.1           | 22.4-187         |               |                | 1.46     | 20              |
| Carbon disulfide     | 0.0250               | 0.0225             | 0.0224              | 90.1          | 89.5           | 53.0-134         |               |                | 0.700    | 20              |
| Carbon tetrachloride | 0.0250               | 0.0210             | 0.0211              | 84.0          | 84.4           | 70.9-129         |               |                | 0.520    | 20              |
| Chlorobenzene        | 0.0250               | 0.0258             | 0.0257              | 103           | 103            | 79.7-122         |               |                | 0.360    | 20              |
| Chlorodibromomethane | 0.0250               | 0.0246             | 0.0245              | 98.6          | 98.1           | 78.2-124         |               |                | 0.490    | 20              |
| Chloroethane         | 0.0250               | 0.0205             | 0.0207              | 82.1          | 82.8           | 41.2-153         |               |                | 0.740    | 20              |
| Chloroform           | 0.0250               | 0.0235             | 0.0237              | 94.2          | 95.0           | 73.2-125         |               |                | 0.850    | 20              |

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

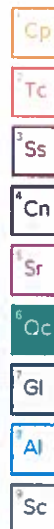
Volatile Organic Compounds (GC/MS) by Method 8260C

L796378-01.02.03.04

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/28/15 09:21 • (LCSD) 10/28/15 09:42

| Analyte                        | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Chloromethane                  | 0.0250               | 0.0234             | 0.0235              | 93.4          | 94.1           | 55.8-134         |               |                | 0.740    | 20              |
| 1,2-Dibromo-3-Chloropropane    | 0.0250               | 0.0243             | 0.0246              | 97.1          | 98.2           | 64.8-131         |               |                | 1.12     | 20              |
| 1,2-Dibromoethane              | 0.0250               | 0.0262             | 0.0258              | 105           | 103            | 79.8-122         |               |                | 1.30     | 20              |
| 1,2-Dichlorobenzene            | 0.0250               | 0.0270             | 0.0274              | 108           | 110            | 84.7-118         |               |                | 1.75     | 20              |
| 1,3-Dichlorobenzene            | 0.0250               | 0.0243             | 0.0241              | 97.2          | 96.3           | 77.6-127         |               |                | 0.900    | 20              |
| 1,4-Dichlorobenzene            | 0.0250               | 0.0257             | 0.0261              | 103           | 104            | 82.2-114         |               |                | 1.47     | 20              |
| Dichlorodifluoromethane        | 0.0250               | 0.0212             | 0.0221              | 84.9          | 88.3           | 56.0-134         |               |                | 3.90     | 20              |
| 1,1-Dichloroethane             | 0.0250               | 0.0236             | 0.0237              | 94.5          | 95.0           | 71.7-127         |               |                | 0.550    | 20              |
| 1,2-Dichloroethane             | 0.0250               | 0.0219             | 0.0216              | 87.6          | 86.5           | 79.8-122         |               |                | 1.26     | 20              |
| 1,1-Dichloroethene             | 0.0250               | 0.0188             | 0.0188              | 75.1          | 75.4           | 59.9-137         |               |                | 0.440    | 20              |
| cis-1,2-Dichloroethene         | 0.0250               | 0.0249             | 0.0248              | 99.8          | 99.1           | 77.3-122         |               |                | 0.740    | 20              |
| trans-1,2-Dichloroethene       | 0.0250               | 0.0244             | 0.0247              | 97.4          | 98.9           | 72.6-125         |               |                | 1.53     | 20              |
| 1,2-Dichloropropane            | 0.0250               | 0.0254             | 0.0252              | 102           | 101            | 77.4-125         |               |                | 0.810    | 20              |
| cis-1,3-Dichloropropene        | 0.0250               | 0.0244             | 0.0243              | 97.5          | 97.1           | 77.7-124         |               |                | 0.380    | 20              |
| trans-1,3-Dichloropropene      | 0.0250               | 0.0234             | 0.0229              | 93.6          | 91.6           | 73.5-127         |               |                | 2.19     | 20              |
| Ethylbenzene                   | 0.0250               | 0.0250             | 0.0250              | 100           | 99.8           | 80.9-121         |               |                | 0.250    | 20              |
| 2-Hexanone                     | 0.125                | 0.123              | 0.119               | 98.4          | 94.8           | 59.4-151         |               |                | 3.76     | 20              |
| Isopropylbenzene               | 0.0250               | 0.0248             | 0.0247              | 99.3          | 98.9           | 81.6-124         |               |                | 0.410    | 20              |
| 2-Butanone (MEK)               | 0.125                | 0.119              | 0.112               | 95.0          | 89.7           | 46.4-155         |               |                | 5.79     | 20              |
| Methylene Chloride             | 0.0250               | 0.0243             | 0.0240              | 97.4          | 96.1           | 69.5-120         |               |                | 1.36     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 0.125                | 0.108              | 0.106               | 86.6          | 84.5           | 63.3-138         |               |                | 2.46     | 20              |
| Methyl tert-butyl ether        | 0.0250               | 0.0237             | 0.0235              | 95.0          | 94.0           | 70.1-125         |               |                | 1.07     | 20              |
| Styrene                        | 0.0250               | 0.0261             | 0.0257              | 104           | 103            | 79.9-124         |               |                | 1.33     | 20              |
| 1,1,2,2-Tetrachloroethane      | 0.0250               | 0.0254             | 0.0240              | 102           | 96.2           | 79.3-123         |               |                | 5.47     | 20              |
| Tetrachloroethene              | 0.0250               | 0.0244             | 0.0252              | 97.7          | 101            | 73.5-130         |               |                | 3.02     | 20              |
| Toluene                        | 0.0250               | 0.0246             | 0.0245              | 98.3          | 98.0           | 77.9-116         |               |                | 0.340    | 20              |
| 1,1,2-Trichlorotrifluoroethane | 0.0250               | 0.0209             | 0.0210              | 83.7          | 84.0           | 62.0-141         |               |                | 0.340    | 20              |
| 1,2,3-Trichlorobenzene         | 0.0250               | 0.0255             | 0.0265              | 102           | 106            | 75.7-134         |               |                | 3.76     | 20              |
| 1,2,4-Trichlorobenzene         | 0.0250               | 0.0255             | 0.0266              | 102           | 106            | 76.1-136         |               |                | 3.98     | 20              |
| 1,1,1-Trichloroethane          | 0.0250               | 0.0222             | 0.0224              | 88.9          | 89.5           | 71.1-129         |               |                | 0.730    | 20              |
| 1,1,2-Trichloroethane          | 0.0250               | 0.0276             | 0.0270              | 111           | 108            | 81.6-120         |               |                | 2.42     | 20              |
| Trichloroethene                | 0.0250               | 0.0243             | 0.0253              | 97.1          | 101            | 79.5-121         |               |                | 4.01     | 20              |
| Trichlorofluoromethane         | 0.0250               | 0.0181             | 0.0184              | 72.4          | 73.7           | 49.1-157         |               |                | 1.82     | 20              |
| Vinyl chloride                 | 0.0250               | 0.0221             | 0.0219              | 88.3          | 87.5           | 61.5-134         |               |                | 0.840    | 20              |
| Xylenes, Total                 | 0.0750               | 0.0759             | 0.0753              | 101           | 100            | 79.2-122         |               |                | 0.810    | 20              |
| (S) Toluene d8                 |                      |                    |                     | 103           | 102            | 90.0-115         |               |                |          |                 |

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260C

L796378-01,02,03,04

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/28/15 09:21 • (LCSD) 10/28/15 09:42

| Analyte                  | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| (S) Dibromofluoromethane |                      |                    |                     | 97.3          | 96.8           | 79.0-121         |               |                |          |                 |
| (S) o,o-difluorotoluene  |                      |                    |                     | 101           | 98.2           | 90.4-116         |               |                |          |                 |
| (S) p-bromofluorobenzene |                      |                    |                     | 92.9          | 91.1           | 80.1-120         |               |                |          |                 |

## L796083-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/28/15 13:33 • (MS) 10/28/15 12:08 • (MSD) 10/28/15 12:29

| Analyte                     | Spike Amount<br>mg/l | Original Result<br>mg/l | MS Result<br>mg/l | MSD Result<br>mg/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone                     | 0.125                | 0.00174                 | 0.0910            | 0.114              | 71.4         | 90.1          | 1        | 25.0-156         |              | J3            | 22.8     | 215             |
| Benzene                     | 0.0250               | ND                      | 0.0281            | 0.0299             | 112          | 120           | 1        | 58.6-133         |              |               | 6.16     | 20              |
| Bromodichloromethane        | 0.0250               | ND                      | 0.0181            | 0.0217             | 72.2         | 86.7          | 1        | 69.2-127         |              |               | 18.2     | 20              |
| Bromochloromethane          | 0.0250               | ND                      | 0.0176            | 0.0212             | 70.6         | 84.6          | 1        | 74.4-128         | J6           |               | 18.2     | 20              |
| Bromoform                   | 0.0250               | ND                      | 0.0185            | 0.0233             | 74.0         | 93.1          | 1        | 66.3-140         |              | J3            | 22.9     | 20              |
| Bromomethane                | 0.0250               | ND                      | 0.0107            | 0.0121             | 42.7         | 48.3          | 1        | 16.6-183         |              |               | 12.3     | 20.5            |
| Carbon disulfide            | 0.0250               | ND                      | 0.00692           | 0.00785            | 27.7         | 31.4          | 1        | 34.9-138         | J6           | J6            | 12.6     | 20              |
| Carbon tetrachloride        | 0.0250               | ND                      | 0.0161            | 0.0190             | 64.2         | 76.0          | 1        | 60.6-139         |              |               | 16.8     | 20              |
| Chlorobenzene               | 0.0250               | ND                      | 0.0198            | 0.0231             | 79.2         | 92.5          | 1        | 70.1-130         |              |               | 15.5     | 20              |
| Chlorodibromomethane        | 0.0250               | ND                      | 0.0194            | 0.0236             | 77.5         | 94.6          | 1        | 71.6-132         |              |               | 19.8     | 20              |
| Chloroethane                | 0.0250               | ND                      | 0.0117            | 0.0136             | 46.9         | 54.4          | 1        | 33.3-155         |              |               | 14.8     | 20              |
| Chloroform                  | 0.0250               | ND                      | 0.0185            | 0.0217             | 74.1         | 86.7          | 1        | 66.1-133         |              |               | 15.6     | 20              |
| Chloromethane               | 0.0250               | ND                      | 0.0105            | 0.0126             | 42.1         | 50.4          | 1        | 40.7-139         |              |               | 17.9     | 20              |
| 1,2-Dibromo-3-Chloropropane | 0.0250               | ND                      | 0.0208            | 0.0262             | 83.3         | 105           | 1        | 63.9-142         |              | J3            | 22.9     | 20.2            |
| 1,2-Dibromoethane           | 0.0250               | ND                      | 0.0195            | 0.0236             | 78.0         | 94.6          | 1        | 73.8-131         |              |               | 19.2     | 20              |
| 1,2-Dichlorobenzene         | 0.0250               | ND                      | 0.0228            | 0.0268             | 91.1         | 107           | 1        | 77.4-127         |              |               | 16.1     | 20              |
| 1,3-Dichlorobenzene         | 0.0250               | ND                      | 0.0198            | 0.0234             | 79.0         | 93.5          | 1        | 67.9-136         |              |               | 16.8     | 20              |
| 1,4-Dichlorobenzene         | 0.0250               | ND                      | 0.0213            | 0.0251             | 85.2         | 100           | 1        | 74.4-123         |              |               | 16.3     | 20              |
| Dichlorodifluoromethane     | 0.0250               | ND                      | 0.0126            | 0.0150             | 50.3         | 60.1          | 1        | 42.2-146         |              |               | 17.7     | 20              |
| 1,1-Dichloroethane          | 0.0250               | 0.000408                | 0.0180            | 0.0212             | 70.6         | 83.0          | 1        | 64.0-134         |              |               | 15.8     | 20              |
| 1,2-Dichloroethane          | 0.0250               | 0.000848                | 0.0165            | 0.0195             | 62.8         | 74.5          | 1        | 60.7-132         |              |               | 16.3     | 20              |
| 1,1-Dichloroethene          | 0.0250               | ND                      | 0.0124            | 0.0143             | 49.4         | 57.2          | 1        | 48.8-144         |              |               | 14.6     | 20              |
| cis-1,2-Dichloroethene      | 0.0250               | 0.0225                  | 0.0317            | 0.0327             | 36.7         | 40.8          | 1        | 60.6-136         | J6           | J6            | 3.16     | 20              |
| trans-1,2-Dichloroethene    | 0.0250               | 0.00194                 | 0.0157            | 0.0181             | 55.0         | 64.7          | 1        | 61.0-132         | J6           |               | 14.3     | 20              |
| 1,2-Dichloropropane         | 0.0250               | ND                      | 0.0192            | 0.0225             | 76.7         | 89.9          | 1        | 69.7-130         |              |               | 15.8     | 20              |
| cis-1,3-Dichloropropene     | 0.0250               | ND                      | 0.0179            | 0.0214             | 71.4         | 85.8          | 1        | 71.1-129         |              |               | 18.2     | 20              |
| trans-1,3-Dichloropropene   | 0.0250               | ND                      | 0.0173            | 0.0212             | 69.3         | 84.7          | 1        | 66.3-136         |              |               | 20.0     | 20              |

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## QUALITY CONTROL SUMMARY

ONE LAB NATIONWIDE

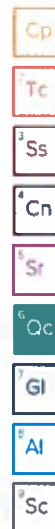
Volatile Organic Compounds (GC/MS) by Method 8260C

L796378-01.02.03.04

## L796083-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/28/15 13:33 • (MS) 10/28/15 12:08 • (MSD) 10/28/15 12:29

| Analyte                        | Spike Amount<br>mg/l | Original Result<br>mg/l | MS Result<br>mg/l | MSD Result<br>mg/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Ethylbenzene                   | 0.0250               | ND                      | 0.0303            | 0.0326             | 121          | 130           | 1        | 62.7-136         |              |               | 7.36     | 20              |
| 2-Hexanone                     | 0.125                | ND                      | 0.0945            | 0.119              | 75.6         | 95.5          | 1        | 59.4-154         |              | J3            | 23.3     | 20.1            |
| Isopropylbenzene               | 0.0250               | ND                      | 0.0205            | 0.0240             | 81.9         | 95.8          | 1        | 67.4-136         |              |               | 15.6     | 20              |
| 2-Butanone (MEK)               | 0.125                | ND                      | 0.0939            | 0.118              | 75.1         | 94.7          | 1        | 45.0-156         |              | J3            | 23.0     | 20.8            |
| Methylene Chloride             | 0.0250               | ND                      | 0.0165            | 0.0192             | 66.1         | 76.9          | 1        | 61.5-125         |              |               | 15.1     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 0.125                | ND                      | 0.0872            | 0.109              | 69.8         | 87.5          | 1        | 60.7-150         |              | J3            | 22.6     | 20              |
| Methyl tert-butyl ether        | 0.0250               | ND                      | 0.0363            | 0.0400             | 145          | 160           | 1        | 61.4-136         | J5           | J5            | 9.74     | 20              |
| Styrene                        | 0.0250               | ND                      | 0.0207            | 0.0241             | 82.9         | 96.3          | 1        | 68.2-133         |              |               | 15.0     | 20              |
| 1,1,2,2-Tetrachloroethane      | 0.0250               | ND                      | 0.0217            | 0.0262             | 86.7         | 105           | 1        | 64.9-145         |              |               | 18.9     | 20              |
| Tetrachloroethene              | 0.0250               | ND                      | 0.0177            | 0.0210             | 70.6         | 83.9          | 1        | 57.4-141         |              |               | 17.1     | 20              |
| Toluene                        | 0.0250               | ND                      | 0.0282            | 0.0303             | 113          | 121           | 1        | 67.8-124         |              |               | 7.10     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 0.0250               | ND                      | 0.0170            | 0.0195             | 67.9         | 77.9          | 1        | 53.7-150         |              |               | 13.8     | 20              |
| 1,2,3-Trichlorobenzene         | 0.0250               | ND                      | 0.0219            | 0.0270             | 87.5         | 108           | 1        | 65.7-143         |              | J3            | 20.9     | 20              |
| 1,2,4-Trichlorobenzene         | 0.0250               | ND                      | 0.0224            | 0.0265             | 89.7         | 106           | 1        | 67.0-146         |              |               | 16.9     | 20              |
| 1,1,1-Trichloroethane          | 0.0250               | ND                      | 0.0177            | 0.0207             | 70.7         | 82.6          | 1        | 62.8-138         |              |               | 15.6     | 20              |
| 1,1,2-Trichloroethane          | 0.0250               | ND                      | 0.0217            | 0.0261             | 86.7         | 104           | 1        | 74.1-130         |              |               | 18.4     | 20              |
| Trichloroethene                | 0.0250               | 0.000324                | 0.0172            | 0.0198             | 67.4         | 78.1          | 1        | 48.9-148         |              |               | 14.4     | 20              |
| Trichlorofluoromethane         | 0.0250               | ND                      | 0.0128            | 0.0148             | 51.3         | 59.0          | 1        | 39.9-165         |              |               | 14.0     | 20              |
| Vinyl chloride                 | 0.0250               | 0.000399                | 0.0117            | 0.0135             | 45.1         | 52.2          | 1        | 44.3-143         |              |               | 14.2     | 20              |
| Xylenes, Total                 | 0.0750               | ND                      | 0.0931            | 0.0995             | 124          | 133           | 1        | 65.6-133         |              | J5            | 6.71     | 20              |
| (S) Toluene-d8                 |                      |                         |                   |                    | 102          | 102           |          | 90.0-115         |              |               |          |                 |
| (S) Dibromofluoromethane       |                      |                         |                   |                    | 97.1         | 96.5          |          | 79.0-121         |              |               |          |                 |
| (S) o,o'-Trifluorotoluene      |                      |                         |                   |                    | 99.5         | 99.8          |          | 90.4-116         |              |               |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                         |                   |                    | 92.3         | 92.1          |          | 80.1-120         |              |               |          |                 |

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Volatile Organic Compounds (GC/MS) by Method 8260C

## QUALITY CONTROL SUMMARY

L796378-05,06,07

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 10/29/15 11:50

| Analyte                     | MB Result<br>mg/l | MB Qualifier | MB RDL<br>mg/l |
|-----------------------------|-------------------|--------------|----------------|
| Acetone                     | ND                |              | 0.0500         |
| Benzene                     | ND                |              | 0.00100        |
| Bromodichloromethane        | ND                |              | 0.00100        |
| Bromochloromethane          | ND                |              | 0.00100        |
| Bromoform                   | ND                |              | 0.00100        |
| Bromomethane                | ND                |              | 0.00500        |
| Carbon disulfide            | ND                |              | 0.00100        |
| Carbon tetrachloride        | ND                |              | 0.00100        |
| Chlorobenzene               | ND                |              | 0.00100        |
| Chlorodibromomethane        | ND                |              | 0.00100        |
| Chloroethane                | ND                |              | 0.00500        |
| Chloroform                  | ND                |              | 0.00500        |
| Chloromethane               | ND                |              | 0.00250        |
| Cyclohexane                 | ND                |              | 0.00100        |
| 1,2-Dibromo-3-Chloropropane | ND                |              | 0.00500        |
| 1,2-Dibromoethane           | ND                |              | 0.00100        |
| 1,2-Dichlorobenzene         | ND                |              | 0.00100        |
| 1,3-Dichlorobenzene         | ND                |              | 0.00100        |
| 1,4-Dichlorobenzene         | ND                |              | 0.00100        |
| Dichlorodifluoromethane     | ND                |              | 0.00500        |
| 1,1-Dichloroethane          | ND                |              | 0.00100        |
| 1,2-Dichloroethane          | ND                |              | 0.00100        |
| 1,1-Dichloroethene          | ND                |              | 0.00100        |
| cis-1,2-Dichloroethene      | ND                |              | 0.00100        |
| trans-1,2-Dichloroethene    | ND                |              | 0.00100        |
| 1,2-Dichloropropane         | ND                |              | 0.00100        |
| cis-1,3-Dichloropropene     | ND                |              | 0.00100        |
| trans-1,3-Dichloropropene   | ND                |              | 0.00100        |
| Ethylbenzene                | ND                |              | 0.00100        |
| 2-Hexanone                  | ND                |              | 0.0100         |
| Isopropylbenzene            | ND                |              | 0.00100        |
| 2-Butanone (MEK)            | ND                |              | 0.0100         |
| Methyl Acetate              | ND                |              | 0.0200         |
| Methyl Cyclohexane          | ND                |              | 0.00100        |
| Methylene Chloride          | ND                |              | 0.00500        |
| 4-Methyl-2-pentanone (MIBK) | ND                |              | 0.0100         |

Cp

Tc

Ss

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Volatile Organic Compounds (GC/MS) by Method 8260C

## QUALITY CONTROL SUMMARY

L796378-05.06.07

ONE LAB NATIONWIDE



## Method Blank (MB)

(MB) 10/29/15 11:50

| Analyte                        | MB Result<br>mg/l | MB Qualifier | MB RDL<br>mg/l |
|--------------------------------|-------------------|--------------|----------------|
| Methyl tert-butyl ether        | ND                |              | 0.00100        |
| Styrene                        | ND                |              | 0.00100        |
| 1,1,2,2-Tetrachloroethane      | ND                |              | 0.00100        |
| Tetrachloroethene              | ND                |              | 0.00100        |
| Toluene                        | ND                |              | 0.00500        |
| 1,1,2-Trichlorotrifluoroethane | ND                |              | 0.00100        |
| 1,2,3-Trichlorobenzene         | ND                |              | 0.00100        |
| 1,2,4-Trichlorobenzene         | ND                |              | 0.00100        |
| 1,1,1-Trichloroethane          | ND                |              | 0.00100        |
| 1,1,2-Trichloroethane          | ND                |              | 0.00100        |
| Trichloroethene                | ND                |              | 0.00100        |
| Trichlorofluoromethane         | ND                |              | 0.00500        |
| Vinyl chloride                 | ND                |              | 0.00100        |
| Xylenes, Total                 | ND                |              | 0.00300        |
| (S) Toluene-d3                 | 104               |              | 90.0-115       |
| (S) Dibromofluoromethane       | 97.8              |              | 79.0-121       |
| (S) o,o'-Trifluorotoluene      | 107               |              | 90.4-116       |
| (S) 4-Bromofluorobenzene       | 101               |              | 80.1-120       |

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/29/15 10:18 • (LCSD) 10/29/15 10:36

| Analyte              | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone              | 0.125                | 0.0795             | 0.0827              | 63.6          | 66.2           | 28.7-175         |               |                | 3.93     | 20.9            |
| Benzene              | 0.0250               | 0.0216             | 0.0214              | 86.5          | 85.6           | 73.0-122         |               |                | 0.970    | 20              |
| Bromodichloromethane | 0.0250               | 0.0281             | 0.0286              | 113           | 114            | 75.5-121         |               |                | 1.71     | 20              |
| Bromochloromethane   | 0.0250               | 0.0237             | 0.0239              | 94.8          | 95.8           | 78.9-123         |               |                | 1.03     | 20              |
| Bromoform            | 0.0250               | 0.0283             | 0.0278              | 113           | 111            | 71.5-131         |               |                | 1.81     | 20              |
| Bromomethane         | 0.0250               | 0.0221             | 0.0227              | 88.4          | 91.0           | 22.4-187         |               |                | 2.84     | 20              |
| Carbon disulfide     | 0.0250               | 0.0229             | 0.0232              | 91.6          | 92.6           | 53.0-134         |               |                | 1.13     | 20              |
| Carbon tetrachloride | 0.0250               | 0.0268             | 0.0261              | 107           | 105            | 70.9-129         |               |                | 2.38     | 20              |
| Chlorobenzene        | 0.0250               | 0.0251             | 0.0247              | 100           | 98.8           | 79.7-122         |               |                | 1.64     | 20              |
| Chlorodibromomethane | 0.0250               | 0.0275             | 0.0275              | 110           | 110            | 78.2-124         |               |                | 0.180    | 20              |
| Chloroethane         | 0.0250               | 0.0223             | 0.0238              | 89.3          | 95.1           | 41.2-153         |               |                | 6.26     | 20              |
| Chloroform           | 0.0250               | 0.0251             | 0.0247              | 100           | 98.7           | 73.2-125         |               |                | 1.57     | 20              |

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## QUALITY CONTROL SUMMARY

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Volatile Organic Compounds (GC/MS) by Method 8260C

L796378-05.06.07

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/29/15 10:18 • (LCSD) 10/29/15 10:36

| Analyte                        | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Chloromethane                  | 0.0250               | 0.0186             | 0.0190              | 74.2          | 75.9           | 55.8-134         |               |                | 2.21     | 20              |
| 1,2-Dibromo-3-Chloropropane    | 0.0250               | 0.0281             | 0.0279              | 113           | 112            | 64.8-131         |               |                | 0.920    | 20              |
| 1,2-Dibromoethane              | 0.0250               | 0.0242             | 0.0253              | 96.8          | 101            | 79.8-122         |               |                | 4.28     | 20              |
| 1,2-Dichlorobenzene            | 0.0250               | 0.0243             | 0.0247              | 97.0          | 98.7           | 84.7-118         |               |                | 1.67     | 20              |
| 1,3-Dichlorobenzene            | 0.0250               | 0.0266             | 0.0266              | 107           | 106            | 77.6-127         |               |                | 0.190    | 20              |
| 1,4-Dichlorobenzene            | 0.0250               | 0.0233             | 0.0238              | 93.4          | 95.2           | 82.2-114         |               |                | 1.99     | 20              |
| Dichlorodifluoromethane        | 0.0250               | 0.0235             | 0.0239              | 94.1          | 95.5           | 56.0-134         |               |                | 1.48     | 20              |
| 1,1-Dichloroethane             | 0.0250               | 0.0227             | 0.0226              | 90.9          | 90.6           | 71.7-127         |               |                | 0.390    | 20              |
| 1,2-Dichloroethane             | 0.0250               | 0.0272             | 0.0263              | 109           | 105            | 79.8-122         |               |                | 3.40     | 20              |
| 1,1-Dichloroethene             | 0.0250               | 0.0264             | 0.0268              | 106           | 107            | 59.9-137         |               |                | 1.42     | 20              |
| cis-1,2-Dichloroethene         | 0.0250               | 0.0230             | 0.0226              | 92.2          | 90.2           | 77.3-122         |               |                | 2.14     | 20              |
| trans-1,2-Dichloroethene       | 0.0250               | 0.0225             | 0.0224              | 89.8          | 89.7           | 72.6-125         |               |                | 0.180    | 20              |
| 1,2-Dichloropropane            | 0.0250               | 0.0237             | 0.0249              | 94.6          | 99.7           | 77.4-125         |               |                | 5.22     | 20              |
| cis-1,3-Dichloropropene        | 0.0250               | 0.0260             | 0.0269              | 104           | 108            | 77.7-124         |               |                | 3.53     | 20              |
| trans-1,3-Dichloropropene      | 0.0250               | 0.0267             | 0.0286              | 107           | 114            | 73.5-127         |               |                | 6.91     | 20              |
| Ethylbenzene                   | 0.0250               | 0.0261             | 0.0245              | 104           | 97.8           | 80.9-121         |               |                | 6.38     | 20              |
| 2-Hexanone                     | 0.125                | 0.113              | 0.122               | 90.2          | 98.0           | 59.4-151         |               |                | 8.28     | 20              |
| Isopropylbenzene               | 0.0250               | 0.0255             | 0.0263              | 102           | 105            | 81.6-124         |               |                | 2.80     | 20              |
| 2-Butanone (MEK)               | 0.125                | 0.0894             | 0.0937              | 71.5          | 75.0           | 46.4-155         |               |                | 4.73     | 20              |
| Methylene Chloride             | 0.0250               | 0.0215             | 0.0218              | 85.9          | 87.2           | 69.5-120         |               |                | 1.50     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 0.125                | 0.117              | 0.125               | 94.0          | 99.9           | 63.3-138         |               |                | 6.10     | 20              |
| Methyl tert-butyl ether        | 0.0250               | 0.0235             | 0.0231              | 93.9          | 92.5           | 70.1-125         |               |                | 1.46     | 20              |
| Styrene                        | 0.0250               | 0.0249             | 0.0256              | 99.6          | 102            | 79.9-124         |               |                | 2.77     | 20              |
| 1,1,2,2-Tetrachloroethane      | 0.0250               | 0.0246             | 0.0254              | 98.4          | 102            | 79.3-123         |               |                | 3.26     | 20              |
| Tetrachloroethene              | 0.0250               | 0.0264             | 0.0271              | 106           | 108            | 73.5-130         |               |                | 2.45     | 20              |
| Toluene                        | 0.0250               | 0.0232             | 0.0253              | 92.6          | 101            | 77.9-116         |               |                | 8.94     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 0.0250               | 0.0266             | 0.0266              | 107           | 107            | 62.0-141         |               |                | 0.0800   | 20              |
| 1,2,3-Trichlorobenzene         | 0.0250               | 0.0266             | 0.0270              | 106           | 108            | 75.7-134         |               |                | 1.43     | 20              |
| 1,2,4-Trichlorobenzene         | 0.0250               | 0.0270             | 0.0268              | 108           | 107            | 76.1-136         |               |                | 0.660    | 20              |
| 1,1,1-Trichloroethane          | 0.0250               | 0.0257             | 0.0260              | 103           | 104            | 71.1-129         |               |                | 1.18     | 20              |
| 1,1,2-Trichloroethane          | 0.0250               | 0.0248             | 0.0254              | 99.1          | 102            | 81.6-120         |               |                | 2.52     | 20              |
| Trichloroethene                | 0.0250               | 0.0254             | 0.0255              | 102           | 102            | 79.5-121         |               |                | 0.440    | 20              |
| Trichlorofluoromethane         | 0.0250               | 0.0269             | 0.0278              | 108           | 111            | 49.1-157         |               |                | 3.13     | 20              |
| Vinyl chloride                 | 0.0250               | 0.0232             | 0.0233              | 92.8          | 93.3           | 61.5-134         |               |                | 0.600    | 20              |
| Xylenes, Total                 | 0.0750               | 0.0716             | 0.0740              | 95.5          | 98.7           | 79.2-122         |               |                | 3.26     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 105           | 110            | 90.0-115         |               |                |          |                 |

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Volatile Organic Compounds (GC/MS) by Method 8260C

## QUALITY CONTROL SUMMARY

L796378-05.06.07

ONE LAB NATIONWIDE



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/29/15 10:18 • (LCSD) 10/29/15 10:36

| Analyte                  | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| (S) Dibromofluoromethane |                      |                    |                     | 96.6          | 95.8           | 79.0-121         |               |                |          |                 |
| (S) o,o-difluorotoluene  |                      |                    |                     | 104           | 111            | 90.4-116         |               |                |          |                 |
| (S) p-Bromofluorobenzene |                      |                    |                     | 101           | 103            | 80.1-120         |               |                |          |                 |

## L796458-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/29/15 15:09 • (MS) 10/29/15 15:28 • (MSD) 10/29/15 15:46

| Analyte                     | Spike Amount<br>mg/l | Original Result<br>mg/l | MS Result<br>mg/l | MSD Result<br>mg/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone                     | 0.125                | 0.00225                 | 0.0535            | 0.0523             | 41.0         | 40.1          | 1        | 25.0-156         |              |               | 2.25     | 21.5            |
| Benzene                     | 0.0250               | ND                      | 0.0131            | 0.0141             | 52.5         | 56.2          | 1        | 58.6-133         | J6           | J6            | 6.90     | 20              |
| Bromodichloromethane        | 0.0250               | ND                      | 0.0221            | 0.0228             | 88.4         | 91.2          | 1        | 69.2-127         |              |               | 3.19     | 20              |
| Bromochloromethane          | 0.0250               | ND                      | 0.0153            | 0.0160             | 61.1         | 64.2          | 1        | 74.4-128         | J6           | J6            | 4.87     | 20              |
| Bromoform                   | 0.0250               | ND                      | 0.0239            | 0.0257             | 95.7         | 103           | 1        | 66.3-140         |              |               | 6.98     | 20              |
| Bromomethane                | 0.0250               | ND                      | 0.00967           | 0.0100             | 38.7         | 40.1          | 1        | 16.6-183         |              |               | 3.62     | 20.5            |
| Carbon disulfide            | 0.0250               | ND                      | 0.00448           | 0.00474            | 17.9         | 19.0          | 1        | 34.9-138         | J6           | J6            | 5.66     | 20              |
| Carbon tetrachloride        | 0.0250               | ND                      | 0.0178            | 0.0185             | 71.2         | 74.0          | 1        | 60.6-139         |              |               | 3.82     | 20              |
| Chlorobenzene               | 0.0250               | ND                      | 0.0187            | 0.0201             | 74.7         | 80.2          | 1        | 70.1-130         |              |               | 7.10     | 20              |
| Chlorodibromomethane        | 0.0250               | ND                      | 0.0224            | 0.0242             | 89.5         | 96.9          | 1        | 71.6-132         |              |               | 7.95     | 20              |
| Chloroethane                | 0.0250               | ND                      | 0.0110            | 0.0131             | 44.0         | 52.4          | 1        | 33.3-155         |              |               | 17.4     | 20              |
| Chloroform                  | 0.0250               | 0.00199                 | 0.0208            | 0.0215             | 75.4         | 78.1          | 1        | 66.1-133         |              |               | 3.25     | 20              |
| Chloromethane               | 0.0250               | ND                      | 0.00706           | 0.00747            | 28.2         | 29.9          | 1        | 40.7-139         | J6           | J6            | 5.63     | 20              |
| 1,2-Dibromo-3-Chloropropane | 0.0250               | ND                      | 0.0252            | 0.0264             | 101          | 105           | 1        | 63.9-142         |              |               | 4.47     | 20.2            |
| 1,2-Dibromoethane           | 0.0250               | ND                      | 0.0186            | 0.0194             | 74.6         | 77.8          | 1        | 73.8-131         |              |               | 4.22     | 20              |
| 1,2-Dichlorobenzene         | 0.0250               | ND                      | 0.0191            | 0.0204             | 76.4         | 81.6          | 1        | 77.4-127         | J6           |               | 6.50     | 20              |
| 1,3-Dichlorobenzene         | 0.0250               | ND                      | 0.0205            | 0.0226             | 82.0         | 90.5          | 1        | 67.9-136         |              |               | 9.88     | 20              |
| 1,4-Dichlorobenzene         | 0.0250               | ND                      | 0.0187            | 0.0188             | 74.8         | 75.0          | 1        | 74.4-123         |              |               | 0.300    | 20              |
| Dichlorodifluoromethane     | 0.0250               | ND                      | 0.0118            | 0.0125             | 47.2         | 49.9          | 1        | 42.2-146         |              |               | 5.74     | 20              |
| 1,1-Dichloroethane          | 0.0250               | ND                      | 0.0155            | 0.0166             | 62.2         | 66.4          | 1        | 64.0-134         | J6           |               | 6.48     | 20              |
| 1,2-Dichloroethane          | 0.0250               | ND                      | 0.0197            | 0.0198             | 78.9         | 79.3          | 1        | 60.7-132         |              |               | 0.580    | 20              |
| 1,1-Dichloroethene          | 0.0250               | ND                      | 0.0137            | 0.0141             | 54.8         | 56.4          | 1        | 48.8-144         |              |               | 2.95     | 20              |
| cis-1,2-Dichloroethene      | 0.0250               | ND                      | 0.0154            | 0.0155             | 61.8         | 61.9          | 1        | 60.6-136         |              |               | 0.230    | 20              |
| trans-1,2-Dichloroethene    | 0.0250               | ND                      | 0.0114            | 0.0120             | 45.4         | 48.1          | 1        | 61.0-132         | J6           | J6            | 5.78     | 20              |
| 1,2-Dichloropropane         | 0.0250               | ND                      | 0.0170            | 0.0183             | 68.2         | 73.3          | 1        | 69.7-130         | J6           |               | 7.33     | 20              |
| cis-1,3-Dichloropropene     | 0.0250               | ND                      | 0.0175            | 0.0184             | 70.2         | 73.7          | 1        | 71.1-129         | J6           |               | 4.89     | 20              |
| trans-1,3-Dichloropropene   | 0.0250               | ND                      | 0.0204            | 0.0216             | 81.6         | 86.4          | 1        | 66.3-136         |              |               | 5.67     | 20              |

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WG824591

Volatile Organic Compounds (GC/MS) by Method 8260C

## QUALITY CONTROL SUMMARY

L796378-05,06,07

ONE LAB. NATIONWIDE



L796458-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/29/15 15:09 • (MS) 10/29/15 15:28 • (MSD) 10/29/15 15:46

| Analyte                        | Spike Amount<br>mg/l | Original Result<br>mg/l | MS Result<br>mg/l | MSD Result<br>mg/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Ethylbenzene                   | 0.0250               | ND                      | 0.0176            | 0.0195             | 70.4         | 77.8          | 1        | 62.7-136         |              |               | 9.94     | 20              |
| 2-Hexanone                     | 0.125                | ND                      | 0.0956            | 0.103              | 76.5         | 82.6          | 1        | 59.4-154         |              |               | 7.67     | 20.1            |
| Isopropylbenzene               | 0.0250               | ND                      | 0.0190            | 0.0213             | 76.2         | 85.0          | 1        | 67.4-136         |              |               | 11.0     | 20              |
| 2-Butanone (MEK)               | 0.125                | ND                      | 0.0672            | 0.0711             | 53.8         | 56.9          | 1        | 45.0-156         |              |               | 5.65     | 20.8            |
| Methylene Chloride             | 0.0250               | ND                      | 0.0135            | 0.0143             | 53.9         | 57.2          | 1        | 61.5-125         | J6           | J6            | 6.04     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 0.125                | ND                      | 0.102             | 0.107              | 81.7         | 85.6          | 1        | 60.7-150         |              |               | 4.71     | 20              |
| Methyl tert-butyl ether        | 0.0250               | ND                      | 0.0175            | 0.0187             | 70.0         | 75.0          | 1        | 61.4-136         |              |               | 6.91     | 20              |
| Styrene                        | 0.0250               | ND                      | 0.0190            | 0.0197             | 75.9         | 79.0          | 1        | 68.2-133         |              |               | 4.02     | 20              |
| 1,1,2,2-Tetrachloroethane      | 0.0250               | ND                      | 0.0223            | 0.0235             | 89.2         | 94.1          | 1        | 64.9-145         |              |               | 5.40     | 20              |
| Tetrachloroethene              | 0.0250               | ND                      | 0.0157            | 0.0169             | 62.9         | 67.7          | 1        | 57.4-141         |              |               | 7.24     | 20              |
| Toluene                        | 0.0250               | ND                      | 0.0158            | 0.0161             | 63.2         | 64.5          | 1        | 67.8-124         | J6           | J6            | 2.02     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 0.0250               | ND                      | 0.0178            | 0.0184             | 71.1         | 73.5          | 1        | 53.7-150         |              |               | 3.30     | 20              |
| 1,2,3-Trichlorobenzene         | 0.0250               | ND                      | 0.0220            | 0.0225             | 87.9         | 89.9          | 1        | 65.7-143         |              |               | 2.26     | 20              |
| 1,2,4-Trichlorobenzene         | 0.0250               | ND                      | 0.0212            | 0.0224             | 84.7         | 89.6          | 1        | 67.0-146         |              |               | 5.57     | 20              |
| 1,1,1-Trichloroethane          | 0.0250               | ND                      | 0.0190            | 0.0195             | 76.2         | 78.1          | 1        | 62.8-138         |              |               | 2.55     | 20              |
| 1,1,2-Trichloroethane          | 0.0250               | ND                      | 0.0210            | 0.0217             | 83.9         | 87.0          | 1        | 74.1-130         |              |               | 3.57     | 20              |
| Trichloroethene                | 0.0250               | ND                      | 0.0164            | 0.0169             | 65.5         | 67.6          | 1        | 48.9-148         |              |               | 3.17     | 20              |
| Trichlorofluoromethane         | 0.0250               | ND                      | 0.0154            | 0.0172             | 61.6         | 68.7          | 1        | 39.9-165         |              |               | 10.8     | 20              |
| Vinyl chloride                 | 0.0250               | ND                      | 0.00937           | 0.0106             | 37.5         | 42.5          | 1        | 44.3-143         | J6           | J6            | 12.5     | 20              |
| Xylenes, Total                 | 0.0750               | ND                      | 0.0525            | 0.0564             | 70.0         | 75.2          | 1        | 65.6-133         |              |               | 7.15     | 20              |
| (S) Toluene-d8                 |                      |                         |                   |                    | 104          | 103           |          | 90.0-115         |              |               |          |                 |
| (S) Dibromofluoromethane       |                      |                         |                   |                    | 97.5         | 96.4          |          | 79.0-121         |              |               |          |                 |
| (S) o,o,p-Trifluorotoluene     |                      |                         |                   |                    | 109          | 110           |          | 90.4-116         |              |               |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                         |                   |                    | 109          | 108           |          | 80.1-120         |              |               |          |                 |

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## Abbreviations and Definitions

|                 |                                                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG             | Sample Delivery Group.                                                                                                                                                                                                                                                       |
| MDL             | Method Detection Limit.                                                                                                                                                                                                                                                      |
| RDL             | Reported Detection Limit.                                                                                                                                                                                                                                                    |
| ND,U            | Not detected at the Reporting Limit (or MDL where applicable).                                                                                                                                                                                                               |
| RPD             | Relative Percent Difference.                                                                                                                                                                                                                                                 |
| (dry)           | Results are reported based on the dry weight of the sample. (this will only be present on a dry report basis for soils)                                                                                                                                                      |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.                                                                              |
| (S)             | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec.            | Recovery.                                                                                                                                                                                                                                                                    |
| SDL             | Sample Detection Limit.                                                                                                                                                                                                                                                      |
| MQL             | Method Quantitation Limit.                                                                                                                                                                                                                                                   |
| Unadj. MQL      | Unadjusted Method Quantitation Limit.                                                                                                                                                                                                                                        |

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| J3        | The associated batch QC was outside the established quality control range for precision.               |
| J5        | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low.  |

Cp

<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

### State Accreditations

|                       |             |                             |                   |
|-----------------------|-------------|-----------------------------|-------------------|
| Alabama               | 40660       | Nevada                      | TN-03-2002-34     |
| Alaska                | UST-080     | New Hampshire               | 2975              |
| Arizona               | AZ0612      | New Jersey-NELAP            | TN002             |
| Arkansas              | 88-0469     | New Mexico                  | TN00003           |
| California            | 01157CA     | New York                    | 11742             |
| Colorado              | TN00003     | North Carolina              | Env375            |
| Connecticut           | PH-0197     | North Carolina <sup>1</sup> | DW21704           |
| Florida               | E87487      | North Carolina <sup>2</sup> | 41                |
| Georgia               | NELAP       | North Dakota                | R-140             |
| Georgia <sup>1</sup>  | 923         | Ohio-VAP                    | CL0069            |
| Idaho                 | TN00003     | Oklahoma                    | 9915              |
| Illinois              | 200008      | Oregon                      | TN200002          |
| Indiana               | C-TN-01     | Pennsylvania                | 68-02979          |
| Iowa                  | 364         | Rhode Island                | 221               |
| Kansas                | E-10277     | South Carolina              | 84004             |
| Kentucky <sup>1</sup> | 90010       | South Dakota                | n/a               |
| Kentucky <sup>2</sup> | 16          | Tennessee <sup>1,4</sup>    | 2006              |
| Louisiana             | AI30792     | Texas                       | T 104704245-07-TX |
| Maine                 | TN0002      | Texas <sup>5</sup>          | LAB0152           |
| Maryland              | 324         | Utah                        | 6157585858        |
| Massachusetts         | M-TN003     | Vermont                     | VT2006            |
| Michigan              | 9958        | Virginia                    | 109               |
| Minnesota             | 047-999-395 | Washington                  | C1915             |
| Mississippi           | TN00003     | West Virginia               | 233               |
| Missouri              | 340         | Wisconsin                   | 9980939910        |
| Montana               | CERT0086    | Wyoming                     | A2LA              |
| Nebraska              | NE-OS-15-05 |                             |                   |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold \*\* Accreditation not applicable

### Third Party & Federal Accreditations

|                  |         |      |         |
|------------------|---------|------|---------|
| A2LA - ISO 17025 | 1461.01 | AIHA | 100789  |
| Canada           | 1461.01 | DOD  | 1461.01 |
| EPA-Crypto       | TN00003 | USDA | S-67674 |

### Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



