

TABLE 2

**GROUNDWATER REMEDIAL ACTION  
ROWE INDUSTRIES SUPERFUND SITE  
SAG HARBOR, NEW YORK**

**Effluent Water Quality Results**

| Date<br>Sampled <sup>2/</sup> | pH <sup>1/</sup>  | TDS<br>(mg/l) | PCE<br>(ug/l) | 1,1,1-TCA<br>(ug/l) | TCE<br>(ug/l) | 1,1-DCA<br>(ug/l) | 1,1-DCE<br>(ug/l) | cis-<br>1,2-DCE<br>(ug/l) | trans-<br>1,2-DCE<br>(ug/l) | Xylene<br>(ug/l) | Toluene<br>(ug/l) | Ethyl-<br>benzene<br>(ug/l) | Methylene<br>Chloride<br>(ug/l) | Freon 113<br>(ug/l) | Naphthalene<br>(ug/l) | Chloroform<br>(ug/l) | Total Iron<br>(mg/l) | Dissolved<br>Iron<br>(mg/l) |
|-------------------------------|-------------------|---------------|---------------|---------------------|---------------|-------------------|-------------------|---------------------------|-----------------------------|------------------|-------------------|-----------------------------|---------------------------------|---------------------|-----------------------|----------------------|----------------------|-----------------------------|
| <b>SPDES Limits</b>           | <b>5.0 to 8.5</b> | <b>---</b>    | <b>5</b>      | <b>5</b>            | <b>5</b>      | <b>5</b>          | <b>5</b>          | <b>5</b>                  | <b>5</b>                    | <b>5</b>         | <b>5</b>          | <b>5</b>                    | <b>5</b>                        | <b>---</b>          | <b>10</b>             | <b>7</b>             | <b>---</b>           | <b>---</b>                  |
| 13-Nov-14                     | 7.0               | 166           | ND<0.5        | ND<0.5              | ND<0.5        | ND<0.5            | ND<0.5            | ND<0.5                    | ND<0.5                      | ND<0.5           | ND<0.5            | ND<0.5                      | ND<2                            | ND<0.5              | ND<0.5                | ND<0.5               | 0.59                 | 0.038                       |
| 24-Nov-14                     | 7.0               | 162           | ND<0.5        | ND<0.5              | ND<0.5        | ND<0.5            | ND<0.5            | ND<0.5                    | ND<0.5                      | ND<0.5           | ND<0.5            | ND<0.5                      | ND<2                            | ND<0.5              | ND<0.5                | ND<0.5               | 2.75                 | 0.094                       |

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

----: Not established

J: Analyte detected below quantitation limits, value shown is a laboratory estimate.

B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

ND: Not detected

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

1,1,1-TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

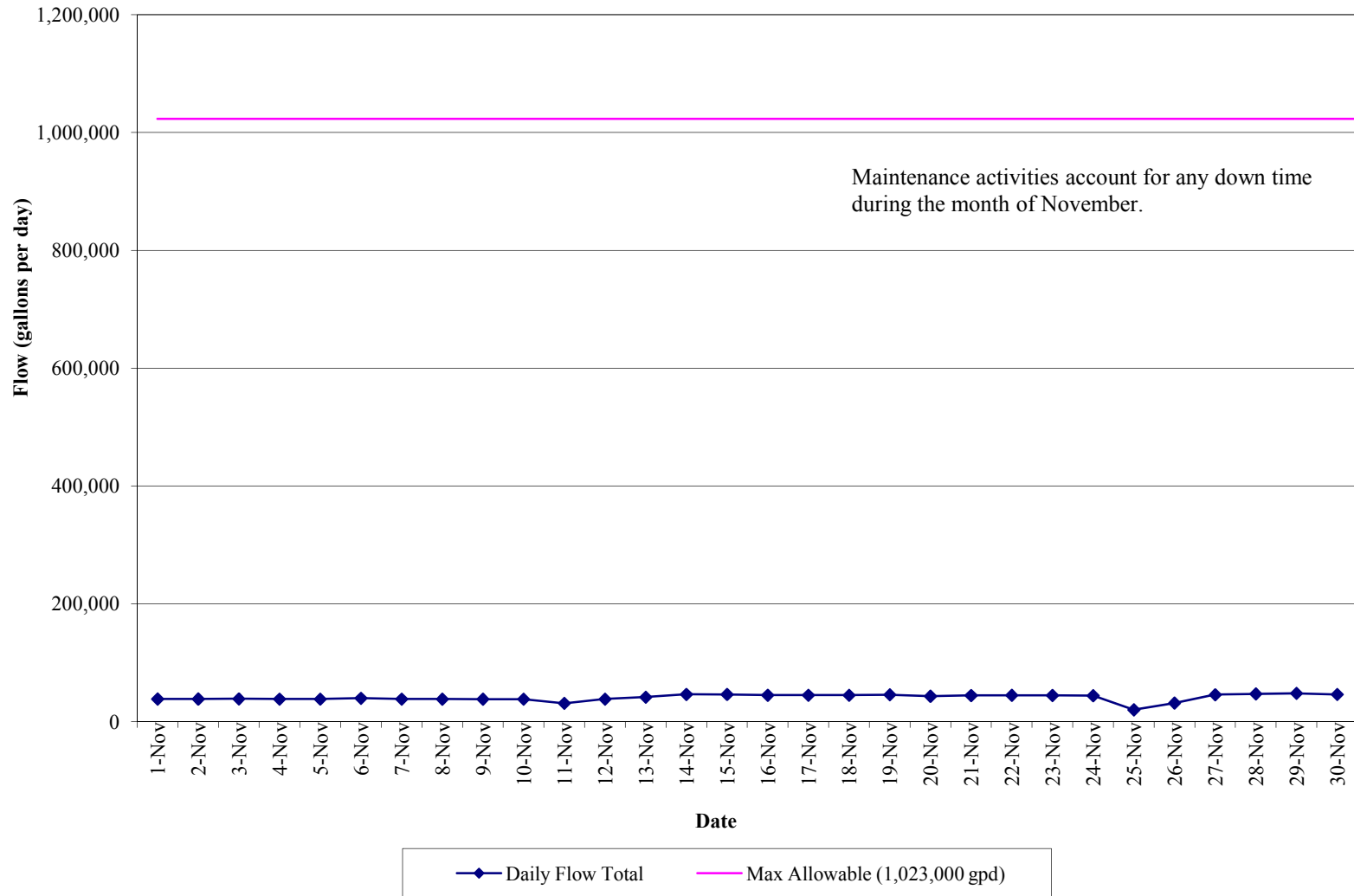
trans-1,2,-DCE: trans-1,2-Dichloroethene

**Notes:**

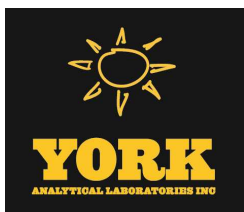
- Based on the SPDES criteria from an NYSDEC letter dated on October 21, 2011, the new allowable pH range for the Rowe Site is between 5.0 and 8.5.
- "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.

**GRAPH 1**  
**GROUNDWATER REMEDIAL ACTION**  
**ROWE INDUSTRIES SUPERFUND SITE**  
**SAG HARBOR, NEW YORK**

**Effluent Flow Data**  
**(November 1, 2014 to November 30, 2014)**



**APPENDIX I**  
**NOVEMBER 2014 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T SYSTEM**



# Technical Report

prepared for:

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204

Shelton CT, 06484

**Attention: Tunde Komuves-Sandor**

Report Date: 11/21/2014

**Client Project ID: Rowe Industries**

York Project (SDG) No.: 14K0566

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/21/2014  
Client Project ID: Rowe Industries  
York Project (SDG) No.: 14K0566

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 14, 2014 and listed below. The project was identified as your project: **Rowe Industries**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|---------------|-----------------------|----------------------|
| 14K0566-01            | NP2-10                  | Water         | 11/13/2014            | 11/14/2014           |
| 14K0567-01            | NP2-6                   | Water         | 11/13/2014            | 11/14/2014           |
| 14K0567-02            | NP2-7                   | Water         | 11/13/2014            | 11/14/2014           |

## General Notes for York Project (SDG) No.: 14K0566

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 11/21/2014





## Sample Information

**Client Sample ID:** NP2-10

**York Sample ID:** 14K0566-01

York Project (SDG) No.

14K0566

Client Project ID

Rowe Industries

Matrix

Water

Collection Date/Time

November 13, 2014 9:40 am

Date Received

11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |



## Sample Information

**Client Sample ID:** NP2-10

**York Sample ID:** 14K0566-01

York Project (SDG) No.  
14K0566

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:40 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.              | Parameter                        | Result | Flag | Units            | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------------------|----------------------------------|--------|------|------------------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 75-00-3              | Chloroethane                     | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 67-66-3              | Chloroform                       | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 74-87-3              | Chloromethane                    | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 156-59-2             | cis-1,2-Dichloroethylene         | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 10061-01-5           | cis-1,3-Dichloropropylene        | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 124-48-1             | Dibromochloromethane             | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 74-95-3              | Dibromomethane                   | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-71-8              | Dichlorodifluoromethane          | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 100-41-4             | Ethyl Benzene                    | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 87-68-3              | Hexachlorobutadiene              | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 98-82-8              | Isopropylbenzene                 | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 1634-04-4            | Methyl tert-butyl ether (MTBE)   | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-09-2              | Methylene chloride               | ND     |      | ug/L             | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 91-20-3              | Naphthalene                      | ND     |      | ug/L             | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 104-51-8             | n-Butylbenzene                   | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 103-65-1             | n-Propylbenzene                  | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 95-47-6              | o-Xylene                         | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 179601-23-1          | p- & m- Xylenes                  | ND     |      | ug/L             | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 99-87-6              | p-Isopropyltoluene               | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 135-98-8             | sec-Butylbenzene                 | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 100-42-5             | Styrene                          | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 98-06-6              | tert-Butylbenzene                | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 127-18-4             | Tetrachloroethylene              | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 108-88-3             | Toluene                          | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 156-60-5             | trans-1,2-Dichloroethylene       | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 10061-02-6           | trans-1,3-Dichloropropylene      | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 79-01-6              | Trichloroethylene                | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-69-4              | Trichlorofluoromethane           | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 75-01-4              | Vinyl Chloride                   | ND     |      | ug/L             | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| 1330-20-7            | * Xylenes, Total                 | ND     |      | ug/L             | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 08:43      | SS      |
| Surrogate Recoveries |                                  | Result |      | Acceptance Range |                        |      |          |                  |                       |                       |         |
| 17060-07-0           | Surrogate: 1,2-Dichloroethane-d4 | 136 %  | S-08 | 69-130           |                        |      |          |                  |                       |                       |         |
| 460-00-4             | Surrogate: p-Bromofluorobenzene  | 96.7 % |      | 79-122           |                        |      |          |                  |                       |                       |         |
| 2037-26-5            | Surrogate: Toluene-d8            | 96.5 % |      | 81-117           |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** NP2-10

**York Sample ID:** 14K0566-01

York Project (SDG) No.  
14K0566

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:40 am

Date Received  
11/14/2014

### Iron by EPA 200.7

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.591  |      | mg/L  | 0.0146  | 0.0200             | 1        | EPA 200.7        | 11/17/2014 14:56      | 11/18/2014 03:27      | MW      |

### Iron, Dissolved by EPA 6010

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.0380 |      | mg/L  | 0.0200  | 0.0200             | 1        | EPA 6010C        | 11/17/2014 14:52      | 11/18/2014 01:25      | MW      |

### Total Dissolved Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

| CAS No. | Parameter              | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|------------------------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
|         | Total Dissolved Solids | 166    |      | mg/L  | 10.0    | 10.0               | 1        | SM 2540C         | 11/17/2014 10:31      | 11/17/2014 10:31      | AA      |

## Sample Information

**Client Sample ID:** NP2-6

**York Sample ID:** 14K0567-01

York Project (SDG) No.  
14K0567

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:30 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |





## Sample Information

**Client Sample ID:** NP2-6

**York Sample ID:** 14K0567-01

York Project (SDG) No.  
14K0567

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:30 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.    | Parameter                      | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|------------|--------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 96-12-8    | 1,2-Dibromo-3-chloropropane    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 106-93-4   | 1,2-Dibromoethane              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 95-50-1    | 1,2-Dichlorobenzene            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 107-06-2   | 1,2-Dichloroethane             | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 78-87-5    | 1,2-Dichloropropane            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 108-67-8   | 1,3,5-Trimethylbenzene         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 541-73-1   | 1,3-Dichlorobenzene            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 142-28-9   | 1,3-Dichloropropane            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 106-46-7   | 1,4-Dichlorobenzene            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 594-20-7   | 2,2-Dichloropropane            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 95-49-8    | 2-Chlorotoluene                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 591-78-6   | 2-Hexanone                     | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 106-43-4   | 4-Chlorotoluene                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 67-64-1    | Acetone                        | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 71-43-2    | Benzene                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 108-86-1   | Bromobenzene                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 74-97-5    | Bromochloromethane             | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-27-4    | Bromodichloromethane           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-25-2    | Bromoform                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 74-83-9    | Bromomethane                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 56-23-5    | Carbon tetrachloride           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 108-90-7   | Chlorobenzene                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-00-3    | Chloroethane                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 67-66-3    | Chloroform                     | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 74-87-3    | Chloromethane                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 156-59-2   | cis-1,2-Dichloroethylene       | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 10061-01-5 | cis-1,3-Dichloropropylene      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 124-48-1   | Dibromochloromethane           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 74-95-3    | Dibromomethane                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-71-8    | Dichlorodifluoromethane        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 100-41-4   | Ethyl Benzene                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 87-68-3    | Hexachlorobutadiene            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 98-82-8    | Isopropylbenzene               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 1634-04-4  | Methyl tert-butyl ether (MTBE) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-09-2    | Methylene chloride             | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 91-20-3    | Naphthalene                    | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |



## Sample Information

**Client Sample ID:** NP2-6

**York Sample ID:** 14K0567-01

York Project (SDG) No.  
14K0567

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:30 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag | Units | Reported to<br>LOD/MDL  | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|------|-------|-------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 104-51-8                    | n-Butylbenzene                   | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |      | ug/L  | 0.50                    | 1.0  | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 100-42-5                    | Styrene                          | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 127-18-4                    | <b>Tetrachloroethylene</b>       | <b>0.37</b>   | J    | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 108-88-3                    | Toluene                          | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 79-01-6                     | <b>Trichloroethylene</b>         | <b>0.38</b>   | J    | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |      | ug/L  | 0.20                    | 0.50 | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |      | ug/L  | 0.60                    | 1.5  | 1        | EPA 8260C        | 11/20/2014 16:07      | 11/21/2014 12:49      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> |      |       | <b>Acceptance Range</b> |      |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 99.1 %        |      |       | 69-130                  |      |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 95.3 %        |      |       | 79-122                  |      |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 98.7 %        |      |       | 81-117                  |      |          |                  |                       |                       |         |

### Iron by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter   | Result      | Flag | Units | Reported to<br>LOD/MDL | LOQ    | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-------------|-------------|------|-------|------------------------|--------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | <b>Iron</b> | <b>4.04</b> |      | mg/L  | 0.0146                 | 0.0200 | 1        | EPA 200.7        | 11/17/2014 14:56      | 11/18/2014 03:32      | MW      |

### Iron, Dissolved by EPA 6010

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ    | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|------------------------|--------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | ND     |      | mg/L  | 0.0200                 | 0.0200 | 1        | EPA 6010C        | 11/17/2014 14:52      | 11/18/2014 01:30      | MW      |



## Sample Information

**Client Sample ID:** NP2-7

**York Sample ID:** 14K0567-02

York Project (SDG) No.  
14K0567

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:35 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |



## Sample Information

**Client Sample ID:** NP2-7

**York Sample ID:** 14K0567-02

York Project (SDG) No.  
14K0567

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:35 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.              | Parameter                        | Result | Flag             | Units  | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------------------|----------------------------------|--------|------------------|--------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 75-00-3              | Chloroethane                     | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 67-66-3              | Chloroform                       | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 74-87-3              | Chloromethane                    | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 156-59-2             | cis-1,2-Dichloroethylene         | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 10061-01-5           | cis-1,3-Dichloropropylene        | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 124-48-1             | Dibromochloromethane             | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 74-95-3              | Dibromomethane                   | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-71-8              | Dichlorodifluoromethane          | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 100-41-4             | Ethyl Benzene                    | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 87-68-3              | Hexachlorobutadiene              | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 98-82-8              | Isopropylbenzene                 | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 1634-04-4            | Methyl tert-butyl ether (MTBE)   | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-09-2              | Methylene chloride               | ND     |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 91-20-3              | Naphthalene                      | ND     |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 104-51-8             | n-Butylbenzene                   | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 103-65-1             | n-Propylbenzene                  | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 95-47-6              | o-Xylene                         | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 179601-23-1          | p- & m- Xylenes                  | ND     |                  | ug/L   | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 99-87-6              | p-Isopropyltoluene               | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 135-98-8             | sec-Butylbenzene                 | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 100-42-5             | Styrene                          | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 98-06-6              | tert-Butylbenzene                | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 127-18-4             | Tetrachloroethylene              | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 108-88-3             | Toluene                          | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 156-60-5             | trans-1,2-Dichloroethylene       | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 10061-02-6           | trans-1,3-Dichloropropylene      | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 79-01-6              | Trichloroethylene                | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-69-4              | Trichlorofluoromethane           | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 75-01-4              | Vinyl Chloride                   | ND     |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| 1330-20-7            | * Xylenes, Total                 | ND     |                  | ug/L   | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:15      | SS      |
| Surrogate Recoveries |                                  | Result | Acceptance Range |        |                        |      |          |                  |                       |                       |         |
| 17060-07-0           | Surrogate: 1,2-Dichloroethane-d4 | 159 %  | S-08             | 69-130 |                        |      |          |                  |                       |                       |         |
| 460-00-4             | Surrogate: p-Bromofluorobenzene  | 103 %  |                  | 79-122 |                        |      |          |                  |                       |                       |         |
| 2037-26-5            | Surrogate: Toluene-d8            | 98.6 % |                  | 81-117 |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** NP2-7

**York Sample ID:** 14K0567-02

**York Project (SDG) No.**

14K0567

**Client Project ID**

Rowe Industries

**Matrix**

Water

**Collection Date/Time**

November 13, 2014 9:35 am

**Date Received**

11/14/2014

### Iron by EPA 200.7

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.599  |      | mg/L  | 0.0146  | 0.0200             | 1        | EPA 200.7        | 11/17/2014 14:56      | 11/18/2014 03:36      | MW      |

### Iron, Dissolved by EPA 6010

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.0732 |      | mg/L  | 0.0200  | 0.0200             | 1        | EPA 6010C        | 11/17/2014 14:52      | 11/18/2014 01:35      | MW      |



## Analytical Batch Summary

**Batch ID:** BK40772      **Preparation Method:** % Solids Prep      **Prepared By:** AA

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0566-01     | NP2-10           | 11/17/14         |
| BK40772-BLK1   | Blank            | 11/17/14         |

**Batch ID:** BK40798      **Preparation Method:** EPA 3010A      **Prepared By:** MW

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0566-01     | NP2-10           | 11/17/14         |
| 14K0567-01     | NP2-6            | 11/17/14         |
| 14K0567-02     | NP2-7            | 11/17/14         |
| BK40798-BLK1   | Blank            | 11/17/14         |
| BK40798-SRM1   | Reference        | 11/17/14         |

**Batch ID:** BK40800      **Preparation Method:** EPA 3010A      **Prepared By:** MW

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0566-01     | NP2-10           | 11/17/14         |
| 14K0567-01     | NP2-6            | 11/17/14         |
| 14K0567-02     | NP2-7            | 11/17/14         |
| BK40800-BLK1   | Blank            | 11/17/14         |
| BK40800-SRM1   | Reference        | 11/17/14         |

**Batch ID:** BK41019      **Preparation Method:** EPA 5030B      **Prepared By:** BGS

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0567-01     | NP2-6            | 11/20/14         |
| BK41019-BLK1   | Blank            | 11/20/14         |
| BK41019-BS1    | LCS              | 11/20/14         |
| BK41019-BSD1   | LCS Dup          | 11/20/14         |

**Batch ID:** BK41021      **Preparation Method:** EPA 5030B      **Prepared By:** BGS

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0566-01     | NP2-10           | 11/20/14         |
| 14K0567-02     | NP2-7            | 11/20/14         |
| BK41021-BLK1   | Blank            | 11/20/14         |
| BK41021-BS1    | LCS              | 11/20/14         |
| BK41021-BSD1   | LCS Dup          | 11/20/14         |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41019 - EPA 5030B

#### Blank (BK41019-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |      |      |
|---------------------------------------------------|------|------|------|
| 1,1,1,2-Tetrachloroethane                         | ND   | 0.50 | ug/L |
| 1,1,1-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1,2,2-Tetrachloroethane                         | ND   | 0.50 | "    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND   | 0.50 | "    |
| 1,1,2-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1-Dichloroethane                                | ND   | 0.50 | "    |
| 1,1-Dichloroethylene                              | ND   | 0.50 | "    |
| 1,1-Dichloropropylene                             | ND   | 0.50 | "    |
| 1,2,3-Trichlorobenzene                            | 0.52 | 0.50 | "    |
| 1,2,3-Trichloropropane                            | ND   | 0.50 | "    |
| 1,2,4-Trichlorobenzene                            | ND   | 0.50 | "    |
| 1,2,4-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,2-Dibromo-3-chloropropane                       | ND   | 0.50 | "    |
| 1,2-Dibromoethane                                 | ND   | 0.50 | "    |
| 1,2-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,2-Dichloroethane                                | ND   | 0.50 | "    |
| 1,2-Dichloropropane                               | ND   | 0.50 | "    |
| 1,3,5-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,3-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,3-Dichloropropane                               | ND   | 0.50 | "    |
| 1,4-Dichlorobenzene                               | ND   | 0.50 | "    |
| 2,2-Dichloropropane                               | ND   | 0.50 | "    |
| 2-Chlorotoluene                                   | ND   | 0.50 | "    |
| 2-Hexanone                                        | ND   | 0.50 | "    |
| 4-Chlorotoluene                                   | ND   | 0.50 | "    |
| Acetone                                           | ND   | 2.0  | "    |
| Benzene                                           | ND   | 0.50 | "    |
| Bromobenzene                                      | ND   | 0.50 | "    |
| Bromochloromethane                                | ND   | 0.50 | "    |
| Bromodichloromethane                              | ND   | 0.50 | "    |
| Bromoform                                         | ND   | 0.50 | "    |
| Bromomethane                                      | ND   | 0.50 | "    |
| Carbon tetrachloride                              | ND   | 0.50 | "    |
| Chlorobenzene                                     | ND   | 0.50 | "    |
| Chloroethane                                      | ND   | 0.50 | "    |
| Chloroform                                        | ND   | 0.50 | "    |
| Chloromethane                                     | ND   | 0.50 | "    |
| cis-1,2-Dichloroethylene                          | ND   | 0.50 | "    |
| cis-1,3-Dichloropropylene                         | ND   | 0.50 | "    |
| Dibromochloromethane                              | ND   | 0.50 | "    |
| Dibromomethane                                    | ND   | 0.50 | "    |
| Dichlorodifluoromethane                           | ND   | 0.50 | "    |
| Ethyl Benzene                                     | ND   | 0.50 | "    |
| Hexachlorobutadiene                               | ND   | 0.50 | "    |
| Isopropylbenzene                                  | ND   | 0.50 | "    |
| Methyl tert-butyl ether (MTBE)                    | ND   | 0.50 | "    |
| Methylene chloride                                | ND   | 2.0  | "    |
| Naphthalene                                       | ND   | 2.0  | "    |
| n-Butylbenzene                                    | ND   | 0.50 | "    |
| n-Propylbenzene                                   | ND   | 0.50 | "    |
| o-Xylene                                          | ND   | 0.50 | "    |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41019 - EPA 5030B

##### Blank (BK41019-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                             |    |      |      |
|-----------------------------|----|------|------|
| p- & m- Xylenes             | ND | 1.0  | ug/L |
| p-Isopropyltoluene          | ND | 0.50 | "    |
| sec-Butylbenzene            | ND | 0.50 | "    |
| Styrene                     | ND | 0.50 | "    |
| tert-Butylbenzene           | ND | 0.50 | "    |
| Tetrachloroethylene         | ND | 0.50 | "    |
| Toluene                     | ND | 0.50 | "    |
| trans-1,2-Dichloroethylene  | ND | 0.50 | "    |
| trans-1,3-Dichloropropylene | ND | 0.50 | "    |
| Trichloroethylene           | ND | 0.50 | "    |
| Trichlorofluoromethane      | ND | 0.50 | "    |
| Vinyl Chloride              | ND | 0.50 | "    |
| Xylenes, Total              | ND | 1.5  | "    |

Surrogate: 1,2-Dichloroethane-d4

10.2

"

10.0

102

69-130

Surrogate: p-Bromofluorobenzene

9.59

"

10.0

95.9

79-122

Surrogate: Toluene-d8

10.1

"

10.0

101

81-117

##### LCS (BK41019-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |  |      |      |  |      |        |
|---------------------------------------------------|------|--|------|------|--|------|--------|
| 1,1,1,2-Tetrachloroethane                         | 10.6 |  | ug/L | 10.0 |  | 106  | 82-126 |
| 1,1,1-Trichloroethane                             | 10.4 |  | "    | 10.0 |  | 104  | 78-136 |
| 1,1,2,2-Tetrachloroethane                         | 10.7 |  | "    | 10.0 |  | 107  | 76-129 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.3 |  | "    | 10.0 |  | 103  | 54-165 |
| 1,1,2-Trichloroethane                             | 10.4 |  | "    | 10.0 |  | 104  | 82-123 |
| 1,1-Dichloroethane                                | 10.4 |  | "    | 10.0 |  | 104  | 82-129 |
| 1,1-Dichloroethylene                              | 10.3 |  | "    | 10.0 |  | 103  | 68-138 |
| 1,1-Dichloropropylene                             | 10.1 |  | "    | 10.0 |  | 101  | 83-133 |
| 1,2,3-Trichlorobenzene                            | 11.5 |  | "    | 10.0 |  | 115  | 76-136 |
| 1,2,3-Trichloropropane                            | 10.4 |  | "    | 10.0 |  | 104  | 77-128 |
| 1,2,4-Trichlorobenzene                            | 10.8 |  | "    | 10.0 |  | 108  | 76-137 |
| 1,2,4-Trimethylbenzene                            | 10.3 |  | "    | 10.0 |  | 103  | 82-132 |
| 1,2-Dibromo-3-chloropropane                       | 10.0 |  | "    | 10.0 |  | 100  | 45-147 |
| 1,2-Dibromoethane                                 | 10.7 |  | "    | 10.0 |  | 107  | 83-124 |
| 1,2-Dichlorobenzene                               | 10.4 |  | "    | 10.0 |  | 104  | 79-123 |
| 1,2-Dichloroethane                                | 10.3 |  | "    | 10.0 |  | 103  | 73-132 |
| 1,2-Dichloropropane                               | 10.2 |  | "    | 10.0 |  | 102  | 78-126 |
| 1,3,5-Trimethylbenzene                            | 10.4 |  | "    | 10.0 |  | 104  | 80-131 |
| 1,3-Dichlorobenzene                               | 10.4 |  | "    | 10.0 |  | 104  | 86-122 |
| 1,3-Dichloropropane                               | 10.6 |  | "    | 10.0 |  | 106  | 81-125 |
| 1,4-Dichlorobenzene                               | 10.4 |  | "    | 10.0 |  | 104  | 85-124 |
| 2,2-Dichloropropane                               | 8.73 |  | "    | 10.0 |  | 87.3 | 56-150 |
| 2-Chlorotoluene                                   | 10.3 |  | "    | 10.0 |  | 103  | 79-130 |
| 2-Hexanone                                        | 11.0 |  | "    | 10.0 |  | 110  | 51-146 |
| 4-Chlorotoluene                                   | 10.2 |  | "    | 10.0 |  | 102  | 79-128 |
| Acetone                                           | 7.97 |  | "    | 10.0 |  | 79.7 | 14-150 |
| Benzene                                           | 10.1 |  | "    | 10.0 |  | 101  | 85-126 |
| Bromobenzene                                      | 10.3 |  | "    | 10.0 |  | 103  | 78-129 |
| Bromochloromethane                                | 10.0 |  | "    | 10.0 |  | 100  | 77-128 |
| Bromodichloromethane                              | 10.4 |  | "    | 10.0 |  | 104  | 79-128 |
| Bromoform                                         | 10.8 |  | "    | 10.0 |  | 108  | 78-133 |
| Bromomethane                                      | 9.82 |  | "    | 10.0 |  | 98.2 | 43-168 |
| Carbon tetrachloride                              | 10.6 |  | "    | 10.0 |  | 106  | 77-141 |
| Chlorobenzene                                     | 10.0 |  | "    | 10.0 |  | 100  | 88-120 |





## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41019 - EPA 5030B

#### LCS (BK41019-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                  |      |  |      |      |  |      |        |  |  |  |  |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|--|
| Chloroethane                     | 10.2 |  | ug/L | 10.0 |  | 102  | 65-136 |  |  |  |  |
| Chloroform                       | 10.4 |  | "    | 10.0 |  | 104  | 82-128 |  |  |  |  |
| Chloromethane                    | 8.85 |  | "    | 10.0 |  | 88.5 | 43-155 |  |  |  |  |
| cis-1,2-Dichloroethylene         | 10.4 |  | "    | 10.0 |  | 104  | 83-129 |  |  |  |  |
| cis-1,3-Dichloropropylene        | 10.0 |  | "    | 10.0 |  | 100  | 80-131 |  |  |  |  |
| Dibromochloromethane             | 10.6 |  | "    | 10.0 |  | 106  | 80-130 |  |  |  |  |
| Dibromomethane                   | 10.8 |  | "    | 10.0 |  | 108  | 72-134 |  |  |  |  |
| Dichlorodifluoromethane          | 9.58 |  | "    | 10.0 |  | 95.8 | 44-144 |  |  |  |  |
| Ethyl Benzene                    | 10.1 |  | "    | 10.0 |  | 101  | 80-131 |  |  |  |  |
| Hexachlorobutadiene              | 10.3 |  | "    | 10.0 |  | 103  | 67-146 |  |  |  |  |
| Isopropylbenzene                 | 10.4 |  | "    | 10.0 |  | 104  | 76-140 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | 11.3 |  | "    | 10.0 |  | 113  | 76-135 |  |  |  |  |
| Methylene chloride               | 9.58 |  | "    | 10.0 |  | 95.8 | 55-137 |  |  |  |  |
| Naphthalene                      | 11.1 |  | "    | 10.0 |  | 111  | 70-147 |  |  |  |  |
| n-Butylbenzene                   | 10.3 |  | "    | 10.0 |  | 103  | 79-132 |  |  |  |  |
| n-Propylbenzene                  | 10.3 |  | "    | 10.0 |  | 103  | 78-133 |  |  |  |  |
| o-Xylene                         | 9.97 |  | "    | 10.0 |  | 99.7 | 78-130 |  |  |  |  |
| p- & m- Xylenes                  | 20.2 |  | "    | 20.0 |  | 101  | 77-133 |  |  |  |  |
| p-Isopropyltoluene               | 10.2 |  | "    | 10.0 |  | 102  | 81-136 |  |  |  |  |
| sec-Butylbenzene                 | 10.2 |  | "    | 10.0 |  | 102  | 79-137 |  |  |  |  |
| Styrene                          | 10.2 |  | "    | 10.0 |  | 102  | 67-132 |  |  |  |  |
| tert-Butylbenzene                | 10.5 |  | "    | 10.0 |  | 105  | 77-138 |  |  |  |  |
| Tetrachloroethylene              | 9.77 |  | "    | 10.0 |  | 97.7 | 82-131 |  |  |  |  |
| Toluene                          | 10.1 |  | "    | 10.0 |  | 101  | 80-127 |  |  |  |  |
| trans-1,2-Dichloroethylene       | 10.2 |  | "    | 10.0 |  | 102  | 80-132 |  |  |  |  |
| trans-1,3-Dichloropropylene      | 10.5 |  | "    | 10.0 |  | 105  | 78-131 |  |  |  |  |
| Trichloroethylene                | 10.2 |  | "    | 10.0 |  | 102  | 82-128 |  |  |  |  |
| Trichlorofluoromethane           | 10.1 |  | "    | 10.0 |  | 101  | 67-139 |  |  |  |  |
| Vinyl Chloride                   | 9.64 |  | "    | 10.0 |  | 96.4 | 58-145 |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 9.92 |  | "    | 10.0 |  | 99.2 | 69-130 |  |  |  |  |
| Surrogate: p-Bromofluorobenzene  | 10.4 |  | "    | 10.0 |  | 104  | 79-122 |  |  |  |  |
| Surrogate: Toluene-d8            | 10.0 |  | "    | 10.0 |  | 100  | 81-117 |  |  |  |  |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte                                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC                                      | %REC<br>Limits | Flag | RPD    | RPD<br>Limit | Flag |
|---------------------------------------------------|--------|--------------------|-------|----------------|-------------------|-------------------------------------------|----------------|------|--------|--------------|------|
| <b>Batch BK41019 - EPA 5030B</b>                  |        |                    |       |                |                   |                                           |                |      |        |              |      |
| <b>LCS Dup (BK41019-BSD1)</b>                     |        |                    |       |                |                   | Prepared: 11/20/2014 Analyzed: 11/21/2014 |                |      |        |              |      |
| 1,1,1,2-Tetrachloroethane                         | 10.8   |                    | ug/L  | 10.0           |                   | 108                                       | 82-126         |      | 1.77   | 30           |      |
| 1,1,1-Trichloroethane                             | 10.1   |                    | "     | 10.0           |                   | 101                                       | 78-136         |      | 2.92   | 30           |      |
| 1,1,2,2-Tetrachloroethane                         | 10.6   |                    | "     | 10.0           |                   | 106                                       | 76-129         |      | 0.750  | 30           |      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.89   |                    | "     | 10.0           |                   | 98.9                                      | 54-165         |      | 4.16   | 30           |      |
| 1,1,2-Trichloroethane                             | 10.5   |                    | "     | 10.0           |                   | 105                                       | 82-123         |      | 1.15   | 30           |      |
| 1,1-Dichloroethane                                | 10.1   |                    | "     | 10.0           |                   | 101                                       | 82-129         |      | 2.54   | 30           |      |
| 1,1-Dichloroethylene                              | 10.2   |                    | "     | 10.0           |                   | 102                                       | 68-138         |      | 1.18   | 30           |      |
| 1,1-Dichloropropylene                             | 9.75   |                    | "     | 10.0           |                   | 97.5                                      | 83-133         |      | 3.63   | 30           |      |
| 1,2,3-Trichlorobenzene                            | 10.4   |                    | "     | 10.0           |                   | 104                                       | 76-136         |      | 9.74   | 30           |      |
| 1,2,3-Trichloropropane                            | 10.4   |                    | "     | 10.0           |                   | 104                                       | 77-128         |      | 0.673  | 30           |      |
| 1,2,4-Trichlorobenzene                            | 10.3   |                    | "     | 10.0           |                   | 103                                       | 76-137         |      | 4.17   | 30           |      |
| 1,2,4-Trimethylbenzene                            | 9.92   |                    | "     | 10.0           |                   | 99.2                                      | 82-132         |      | 3.95   | 30           |      |
| 1,2-Dibromo-3-chloropropane                       | 10.7   |                    | "     | 10.0           |                   | 107                                       | 45-147         |      | 5.98   | 30           |      |
| 1,2-Dibromoethane                                 | 10.8   |                    | "     | 10.0           |                   | 108                                       | 83-124         |      | 0.743  | 30           |      |
| 1,2-Dichlorobenzene                               | 10.3   |                    | "     | 10.0           |                   | 103                                       | 79-123         |      | 1.06   | 30           |      |
| 1,2-Dichloroethane                                | 10.5   |                    | "     | 10.0           |                   | 105                                       | 73-132         |      | 2.21   | 30           |      |
| 1,2-Dichloropropane                               | 10.1   |                    | "     | 10.0           |                   | 101                                       | 78-126         |      | 0.591  | 30           |      |
| 1,3,5-Trimethylbenzene                            | 9.97   |                    | "     | 10.0           |                   | 99.7                                      | 80-131         |      | 3.84   | 30           |      |
| 1,3-Dichlorobenzene                               | 10.0   |                    | "     | 10.0           |                   | 100                                       | 86-122         |      | 3.34   | 30           |      |
| 1,3-Dichloropropane                               | 10.6   |                    | "     | 10.0           |                   | 106                                       | 81-125         |      | 0.188  | 30           |      |
| 1,4-Dichlorobenzene                               | 10.3   |                    | "     | 10.0           |                   | 103                                       | 85-124         |      | 0.774  | 30           |      |
| 2,2-Dichloropropane                               | 8.43   |                    | "     | 10.0           |                   | 84.3                                      | 56-150         |      | 3.50   | 30           |      |
| 2-Chlorotoluene                                   | 9.92   |                    | "     | 10.0           |                   | 99.2                                      | 79-130         |      | 3.86   | 30           |      |
| 2-Hexanone                                        | 11.8   |                    | "     | 10.0           |                   | 118                                       | 51-146         |      | 6.67   | 30           |      |
| 4-Chlorotoluene                                   | 9.93   |                    | "     | 10.0           |                   | 99.3                                      | 79-128         |      | 2.78   | 30           |      |
| Acetone                                           | 9.18   |                    | "     | 10.0           |                   | 91.8                                      | 14-150         |      | 14.1   | 30           |      |
| Benzene                                           | 9.96   |                    | "     | 10.0           |                   | 99.6                                      | 85-126         |      | 1.30   | 30           |      |
| Bromobenzene                                      | 9.99   |                    | "     | 10.0           |                   | 99.9                                      | 78-129         |      | 3.25   | 30           |      |
| Bromochloromethane                                | 10.4   |                    | "     | 10.0           |                   | 104                                       | 77-128         |      | 3.82   | 30           |      |
| Bromodichloromethane                              | 10.6   |                    | "     | 10.0           |                   | 106                                       | 79-128         |      | 1.43   | 30           |      |
| Bromoform                                         | 10.6   |                    | "     | 10.0           |                   | 106                                       | 78-133         |      | 1.87   | 30           |      |
| Bromomethane                                      | 10.2   |                    | "     | 10.0           |                   | 102                                       | 43-168         |      | 4.19   | 30           |      |
| Carbon tetrachloride                              | 10.2   |                    | "     | 10.0           |                   | 102                                       | 77-141         |      | 4.14   | 30           |      |
| Chlorobenzene                                     | 10.2   |                    | "     | 10.0           |                   | 102                                       | 88-120         |      | 1.68   | 30           |      |
| Chloroethane                                      | 9.82   |                    | "     | 10.0           |                   | 98.2                                      | 65-136         |      | 4.19   | 30           |      |
| Chloroform                                        | 10.4   |                    | "     | 10.0           |                   | 104                                       | 82-128         |      | 0.00   | 30           |      |
| Chloromethane                                     | 8.66   |                    | "     | 10.0           |                   | 86.6                                      | 43-155         |      | 2.17   | 30           |      |
| cis-1,2-Dichloroethylene                          | 10.2   |                    | "     | 10.0           |                   | 102                                       | 83-129         |      | 1.75   | 30           |      |
| cis-1,3-Dichloropropylene                         | 10.0   |                    | "     | 10.0           |                   | 100                                       | 80-131         |      | 0.0997 | 30           |      |
| Dibromochloromethane                              | 10.8   |                    | "     | 10.0           |                   | 108                                       | 80-130         |      | 1.21   | 30           |      |
| Dibromomethane                                    | 10.8   |                    | "     | 10.0           |                   | 108                                       | 72-134         |      | 0.463  | 30           |      |
| Dichlorodifluoromethane                           | 9.38   |                    | "     | 10.0           |                   | 93.8                                      | 44-144         |      | 2.11   | 30           |      |
| Ethyl Benzene                                     | 10.1   |                    | "     | 10.0           |                   | 101                                       | 80-131         |      | 0.396  | 30           |      |
| Hexachlorobutadiene                               | 10.0   |                    | "     | 10.0           |                   | 100                                       | 67-146         |      | 2.66   | 30           |      |
| Isopropylbenzene                                  | 9.85   |                    | "     | 10.0           |                   | 98.5                                      | 76-140         |      | 5.05   | 30           |      |
| Methyl tert-butyl ether (MTBE)                    | 10.0   |                    | "     | 10.0           |                   | 100                                       | 76-135         |      | 11.9   | 30           |      |
| Methylene chloride                                | 9.64   |                    | "     | 10.0           |                   | 96.4                                      | 55-137         |      | 0.624  | 30           |      |
| Naphthalene                                       | 10.7   |                    | "     | 10.0           |                   | 107                                       | 70-147         |      | 3.66   | 30           |      |
| n-Butylbenzene                                    | 9.93   |                    | "     | 10.0           |                   | 99.3                                      | 79-132         |      | 3.56   | 30           |      |
| n-Propylbenzene                                   | 9.75   |                    | "     | 10.0           |                   | 97.5                                      | 78-133         |      | 5.19   | 30           |      |
| o-Xylene                                          | 10.2   |                    | "     | 10.0           |                   | 102                                       | 78-130         |      | 2.28   | 30           |      |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41019 - EPA 5030B

##### LCS Dup (BK41019-BSD1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                         |             |  |          |             |  |             |               |  |       |    |  |
|-----------------------------------------|-------------|--|----------|-------------|--|-------------|---------------|--|-------|----|--|
| p- & m- Xylenes                         | 20.2        |  | ug/L     | 20.0        |  | 101         | 77-133        |  | 0.346 | 30 |  |
| p-Isopropyltoluene                      | 9.83        |  | "        | 10.0        |  | 98.3        | 81-136        |  | 3.99  | 30 |  |
| sec-Butylbenzene                        | 9.86        |  | "        | 10.0        |  | 98.6        | 79-137        |  | 3.49  | 30 |  |
| Styrene                                 | 10.3        |  | "        | 10.0        |  | 103         | 67-132        |  | 1.37  | 30 |  |
| tert-Butylbenzene                       | 10.1        |  | "        | 10.0        |  | 101         | 77-138        |  | 3.60  | 30 |  |
| Tetrachloroethylene                     | 9.83        |  | "        | 10.0        |  | 98.3        | 82-131        |  | 0.612 | 30 |  |
| Toluene                                 | 9.96        |  | "        | 10.0        |  | 99.6        | 80-127        |  | 1.69  | 30 |  |
| trans-1,2-Dichloroethylene              | 9.59        |  | "        | 10.0        |  | 95.9        | 80-132        |  | 6.07  | 30 |  |
| trans-1,3-Dichloropropylene             | 10.7        |  | "        | 10.0        |  | 107         | 78-131        |  | 2.45  | 30 |  |
| Trichloroethylene                       | 9.83        |  | "        | 10.0        |  | 98.3        | 82-128        |  | 3.40  | 30 |  |
| Trichlorofluoromethane                  | 9.83        |  | "        | 10.0        |  | 98.3        | 67-139        |  | 2.51  | 30 |  |
| Vinyl Chloride                          | 9.38        |  | "        | 10.0        |  | 93.8        | 58-145        |  | 2.73  | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>10.2</i> |  | <i>"</i> | <i>10.0</i> |  | <i>102</i>  | <i>69-130</i> |  |       |    |  |
| <i>Surrogate: p-Bromofluorobenzene</i>  | <i>9.99</i> |  | <i>"</i> | <i>10.0</i> |  | <i>99.9</i> | <i>79-122</i> |  |       |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>9.89</i> |  | <i>"</i> | <i>10.0</i> |  | <i>98.9</i> | <i>81-117</i> |  |       |    |  |

#### Batch BK41021 - EPA 5030B

##### Blank (BK41021-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |      |      |
|---------------------------------------------------|------|------|------|
| 1,1,1,2-Tetrachloroethane                         | ND   | 0.50 | ug/L |
| 1,1,1-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1,2,2-Tetrachloroethane                         | ND   | 0.50 | "    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND   | 0.50 | "    |
| 1,1,2-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1-Dichloroethane                                | ND   | 0.50 | "    |
| 1,1-Dichloroethylene                              | ND   | 0.50 | "    |
| 1,1-Dichloropropylene                             | ND   | 0.50 | "    |
| 1,2,3-Trichlorobenzene                            | 0.49 | 0.50 | "    |
| 1,2,3-Trichloropropane                            | ND   | 0.50 | "    |
| 1,2,4-Trichlorobenzene                            | 0.37 | 0.50 | "    |
| 1,2,4-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,2-Dibromo-3-chloropropane                       | ND   | 0.50 | "    |
| 1,2-Dibromoethane                                 | ND   | 0.50 | "    |
| 1,2-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,2-Dichloroethane                                | ND   | 0.50 | "    |
| 1,2-Dichloropropane                               | ND   | 0.50 | "    |
| 1,3,5-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,3-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,3-Dichloropropane                               | ND   | 0.50 | "    |
| 1,4-Dichlorobenzene                               | ND   | 0.50 | "    |
| 2,2-Dichloropropane                               | ND   | 0.50 | "    |
| 2-Chlorotoluene                                   | ND   | 0.50 | "    |
| 2-Hexanone                                        | ND   | 0.50 | "    |
| 4-Chlorotoluene                                   | ND   | 0.50 | "    |
| Acetone                                           | ND   | 2.0  | "    |
| Benzene                                           | ND   | 0.50 | "    |
| Bromobenzene                                      | ND   | 0.50 | "    |
| Bromochloromethane                                | ND   | 0.50 | "    |
| Bromodichloromethane                              | ND   | 0.50 | "    |
| Bromoform                                         | ND   | 0.50 | "    |
| Bromomethane                                      | ND   | 0.50 | "    |
| Carbon tetrachloride                              | ND   | 0.50 | "    |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

#### Blank (BK41021-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                  |      |      |      |      |  |      |        |  |  |  |  |
|----------------------------------|------|------|------|------|--|------|--------|--|--|--|--|
| Chlorobenzene                    | ND   | 0.50 | ug/L |      |  |      |        |  |  |  |  |
| Chloroethane                     | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Chloroform                       | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Chloromethane                    | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| cis-1,2-Dichloroethylene         | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| cis-1,3-Dichloropropylene        | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Dibromochloromethane             | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Dibromomethane                   | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Dichlorodifluoromethane          | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Ethyl Benzene                    | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Hexachlorobutadiene              | 0.62 | 0.50 | "    |      |  |      |        |  |  |  |  |
| Isopropylbenzene                 | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Methylene chloride               | ND   | 2.0  | "    |      |  |      |        |  |  |  |  |
| Naphthalene                      | ND   | 2.0  | "    |      |  |      |        |  |  |  |  |
| n-Butylbenzene                   | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| n-Propylbenzene                  | 0.20 | 0.50 | "    |      |  |      |        |  |  |  |  |
| o-Xylene                         | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| p- & m- Xylenes                  | ND   | 1.0  | "    |      |  |      |        |  |  |  |  |
| p-Isopropyltoluene               | 0.22 | 0.50 | "    |      |  |      |        |  |  |  |  |
| sec-Butylbenzene                 | 0.23 | 0.50 | "    |      |  |      |        |  |  |  |  |
| Styrene                          | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| tert-Butylbenzene                | 0.25 | 0.50 | "    |      |  |      |        |  |  |  |  |
| Tetrachloroethylene              | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Toluene                          | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| trans-1,2-Dichloroethylene       | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| trans-1,3-Dichloropropylene      | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Trichloroethylene                | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Trichlorofluoromethane           | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Vinyl Chloride                   | ND   | 0.50 | "    |      |  |      |        |  |  |  |  |
| Xylenes, Total                   | ND   | 1.5  | "    |      |  |      |        |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.2 |      | "    | 10.0 |  | 102  | 69-130 |  |  |  |  |
| Surrogate: p-Bromofluorobenzene  | 9.67 |      | "    | 10.0 |  | 96.7 | 79-122 |  |  |  |  |
| Surrogate: Toluene-d8            | 9.76 |      | "    | 10.0 |  | 97.6 | 81-117 |  |  |  |  |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte                                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC                                      | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------------------------------------------------|--------|--------------------|-------|----------------|-------------------|-------------------------------------------|----------------|------|-----|--------------|------|
| <b>Batch BK41021 - EPA 5030B</b>                  |        |                    |       |                |                   |                                           |                |      |     |              |      |
| <b>LCS (BK41021-BS1)</b>                          |        |                    |       |                |                   | Prepared: 11/20/2014 Analyzed: 11/21/2014 |                |      |     |              |      |
| 1,1,1,2-Tetrachloroethane                         | 10.6   |                    | ug/L  | 10.0           |                   | 106                                       | 82-126         |      |     |              |      |
| 1,1,1-Trichloroethane                             | 11.8   |                    | "     | 10.0           |                   | 118                                       | 78-136         |      |     |              |      |
| 1,1,2,2-Tetrachloroethane                         | 9.27   |                    | "     | 10.0           |                   | 92.7                                      | 76-129         |      |     |              |      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 7.85   |                    | "     | 10.0           |                   | 78.5                                      | 54-165         |      |     |              |      |
| 1,1,2-Trichloroethane                             | 9.63   |                    | "     | 10.0           |                   | 96.3                                      | 82-123         |      |     |              |      |
| 1,1-Dichloroethane                                | 9.79   |                    | "     | 10.0           |                   | 97.9                                      | 82-129         |      |     |              |      |
| 1,1-Dichloroethylene                              | 9.92   |                    | "     | 10.0           |                   | 99.2                                      | 68-138         |      |     |              |      |
| 1,1-Dichloropropylene                             | 10.1   |                    | "     | 10.0           |                   | 101                                       | 83-133         |      |     |              |      |
| 1,2,3-Trichlorobenzene                            | 9.59   |                    | "     | 10.0           |                   | 95.9                                      | 76-136         |      |     |              |      |
| 1,2,3-Trichloropropane                            | 10.5   |                    | "     | 10.0           |                   | 105                                       | 77-128         |      |     |              |      |
| 1,2,4-Trichlorobenzene                            | 9.22   |                    | "     | 10.0           |                   | 92.2                                      | 76-137         |      |     |              |      |
| 1,2,4-Trimethylbenzene                            | 9.17   |                    | "     | 10.0           |                   | 91.7                                      | 82-132         |      |     |              |      |
| 1,2-Dibromo-3-chloropropane                       | 13.4   |                    | "     | 10.0           |                   | 134                                       | 45-147         |      |     |              |      |
| 1,2-Dibromoethane                                 | 10.2   |                    | "     | 10.0           |                   | 102                                       | 83-124         |      |     |              |      |
| 1,2-Dichlorobenzene                               | 9.53   |                    | "     | 10.0           |                   | 95.3                                      | 79-123         |      |     |              |      |
| 1,2-Dichloroethane                                | 13.0   |                    | "     | 10.0           |                   | 130                                       | 73-132         |      |     |              |      |
| 1,2-Dichloropropane                               | 9.48   |                    | "     | 10.0           |                   | 94.8                                      | 78-126         |      |     |              |      |
| 1,3,5-Trimethylbenzene                            | 8.71   |                    | "     | 10.0           |                   | 87.1                                      | 80-131         |      |     |              |      |
| 1,3-Dichlorobenzene                               | 8.64   |                    | "     | 10.0           |                   | 86.4                                      | 86-122         |      |     |              |      |
| 1,3-Dichloropropane                               | 9.99   |                    | "     | 10.0           |                   | 99.9                                      | 81-125         |      |     |              |      |
| 1,4-Dichlorobenzene                               | 9.44   |                    | "     | 10.0           |                   | 94.4                                      | 85-124         |      |     |              |      |
| 2,2-Dichloropropane                               | 7.32   |                    | "     | 10.0           |                   | 73.2                                      | 56-150         |      |     |              |      |
| 2-Chlorotoluene                                   | 9.09   |                    | "     | 10.0           |                   | 90.9                                      | 79-130         |      |     |              |      |
| 2-Hexanone                                        | 11.7   |                    | "     | 10.0           |                   | 117                                       | 51-146         |      |     |              |      |
| 4-Chlorotoluene                                   | 9.29   |                    | "     | 10.0           |                   | 92.9                                      | 79-128         |      |     |              |      |
| Acetone                                           | 14.7   |                    | "     | 10.0           |                   | 147                                       | 14-150         |      |     |              |      |
| Benzene                                           | 10.5   |                    | "     | 10.0           |                   | 105                                       | 85-126         |      |     |              |      |
| Bromobenzene                                      | 8.95   |                    | "     | 10.0           |                   | 89.5                                      | 78-129         |      |     |              |      |
| Bromochloromethane                                | 11.8   |                    | "     | 10.0           |                   | 118                                       | 77-128         |      |     |              |      |
| Bromodichloromethane                              | 11.6   |                    | "     | 10.0           |                   | 116                                       | 79-128         |      |     |              |      |
| Bromoform                                         | 11.1   |                    | "     | 10.0           |                   | 111                                       | 78-133         |      |     |              |      |
| Bromomethane                                      | 9.59   |                    | "     | 10.0           |                   | 95.9                                      | 43-168         |      |     |              |      |
| Carbon tetrachloride                              | 11.3   |                    | "     | 10.0           |                   | 113                                       | 77-141         |      |     |              |      |
| Chlorobenzene                                     | 9.67   |                    | "     | 10.0           |                   | 96.7                                      | 88-120         |      |     |              |      |
| Chloroethane                                      | 8.49   |                    | "     | 10.0           |                   | 84.9                                      | 65-136         |      |     |              |      |
| Chloroform                                        | 12.3   |                    | "     | 10.0           |                   | 123                                       | 82-128         |      |     |              |      |
| Chloromethane                                     | 9.82   |                    | "     | 10.0           |                   | 98.2                                      | 43-155         |      |     |              |      |
| cis-1,2-Dichloroethylene                          | 12.0   |                    | "     | 10.0           |                   | 120                                       | 83-129         |      |     |              |      |
| cis-1,3-Dichloropropylene                         | 9.24   |                    | "     | 10.0           |                   | 92.4                                      | 80-131         |      |     |              |      |
| Dibromochloromethane                              | 11.5   |                    | "     | 10.0           |                   | 115                                       | 80-130         |      |     |              |      |
| Dibromomethane                                    | 12.0   |                    | "     | 10.0           |                   | 120                                       | 72-134         |      |     |              |      |
| Dichlorodifluoromethane                           | 8.47   |                    | "     | 10.0           |                   | 84.7                                      | 44-144         |      |     |              |      |
| Ethyl Benzene                                     | 9.06   |                    | "     | 10.0           |                   | 90.6                                      | 80-131         |      |     |              |      |
| Hexachlorobutadiene                               | 8.62   |                    | "     | 10.0           |                   | 86.2                                      | 67-146         |      |     |              |      |
| Isopropylbenzene                                  | 8.35   |                    | "     | 10.0           |                   | 83.5                                      | 76-140         |      |     |              |      |
| Methyl tert-butyl ether (MTBE)                    | 9.87   |                    | "     | 10.0           |                   | 98.7                                      | 76-135         |      |     |              |      |
| Methylene chloride                                | 10.4   |                    | "     | 10.0           |                   | 104                                       | 55-137         |      |     |              |      |
| Naphthalene                                       | 9.53   |                    | "     | 10.0           |                   | 95.3                                      | 70-147         |      |     |              |      |
| n-Butylbenzene                                    | 8.43   |                    | "     | 10.0           |                   | 84.3                                      | 79-132         |      |     |              |      |
| n-Propylbenzene                                   | 8.03   |                    | "     | 10.0           |                   | 80.3                                      | 78-133         |      |     |              |      |
| o-Xylene                                          | 10.1   |                    | "     | 10.0           |                   | 101                                       | 78-130         |      |     |              |      |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

#### Batch BK41021 - EPA 5030B

##### LCS (BK41021-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                         |             |  |          |             |  |             |               |  |  |  |  |
|-----------------------------------------|-------------|--|----------|-------------|--|-------------|---------------|--|--|--|--|
| p- & m- Xylenes                         | 18.3        |  | ug/L     | 20.0        |  | 91.6        | 77-133        |  |  |  |  |
| p-Isopropyltoluene                      | 8.57        |  | "        | 10.0        |  | 85.7        | 81-136        |  |  |  |  |
| sec-Butylbenzene                        | 7.93        |  | "        | 10.0        |  | 79.3        | 79-137        |  |  |  |  |
| Styrene                                 | 9.82        |  | "        | 10.0        |  | 98.2        | 67-132        |  |  |  |  |
| tert-Butylbenzene                       | 8.52        |  | "        | 10.0        |  | 85.2        | 77-138        |  |  |  |  |
| Tetrachloroethylene                     | 8.69        |  | "        | 10.0        |  | 86.9        | 82-131        |  |  |  |  |
| Toluene                                 | 8.74        |  | "        | 10.0        |  | 87.4        | 80-127        |  |  |  |  |
| trans-1,2-Dichloroethylene              | 9.86        |  | "        | 10.0        |  | 98.6        | 80-132        |  |  |  |  |
| trans-1,3-Dichloropropylene             | 9.87        |  | "        | 10.0        |  | 98.7        | 78-131        |  |  |  |  |
| Trichloroethylene                       | 10.1        |  | "        | 10.0        |  | 101         | 82-128        |  |  |  |  |
| Trichlorofluoromethane                  | 10.3        |  | "        | 10.0        |  | 103         | 67-139        |  |  |  |  |
| Vinyl Chloride                          | 8.28        |  | "        | 10.0        |  | 82.8        | 58-145        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>13.6</i> |  | <i>"</i> | <i>10.0</i> |  | <i>136</i>  | <i>69-130</i> |  |  |  |  |
| <i>Surrogate: p-Bromofluorobenzene</i>  | <i>10.4</i> |  | <i>"</i> | <i>10.0</i> |  | <i>104</i>  | <i>79-122</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>9.61</i> |  | <i>"</i> | <i>10.0</i> |  | <i>96.1</i> | <i>81-117</i> |  |  |  |  |

##### LCS Dup (BK41021-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |  |      |      |  |      |        |          |       |    |          |
|---------------------------------------------------|------|--|------|------|--|------|--------|----------|-------|----|----------|
| 1,1,1,2-Tetrachloroethane                         | 11.3 |  | ug/L | 10.0 |  | 113  | 82-126 |          | 6.04  | 30 |          |
| 1,1,1-Trichloroethane                             | 9.98 |  | "    | 10.0 |  | 99.8 | 78-136 |          | 16.6  | 30 |          |
| 1,1,2,2-Tetrachloroethane                         | 9.26 |  | "    | 10.0 |  | 92.6 | 76-129 |          | 0.108 | 30 |          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 6.98 |  | "    | 10.0 |  | 69.8 | 54-165 |          | 11.7  | 30 |          |
| 1,1,2-Trichloroethane                             | 9.33 |  | "    | 10.0 |  | 93.3 | 82-123 |          | 3.16  | 30 |          |
| 1,1-Dichloroethane                                | 8.97 |  | "    | 10.0 |  | 89.7 | 82-129 |          | 8.74  | 30 |          |
| 1,1-Dichloroethylene                              | 8.78 |  | "    | 10.0 |  | 87.8 | 68-138 |          | 12.2  | 30 |          |
| 1,1-Dichloropropylene                             | 8.53 |  | "    | 10.0 |  | 85.3 | 83-133 |          | 17.0  | 30 |          |
| 1,2,3-Trichlorobenzene                            | 9.23 |  | "    | 10.0 |  | 92.3 | 76-136 |          | 3.83  | 30 |          |
| 1,2,3-Trichloropropane                            | 9.49 |  | "    | 10.0 |  | 94.9 | 77-128 |          | 9.72  | 30 |          |
| 1,2,4-Trichlorobenzene                            | 8.95 |  | "    | 10.0 |  | 89.5 | 76-137 |          | 2.97  | 30 |          |
| 1,2,4-Trimethylbenzene                            | 9.01 |  | "    | 10.0 |  | 90.1 | 82-132 |          | 1.76  | 30 |          |
| 1,2-Dibromo-3-chloropropane                       | 10.5 |  | "    | 10.0 |  | 105  | 45-147 |          | 23.9  | 30 |          |
| 1,2-Dibromoethane                                 | 10.4 |  | "    | 10.0 |  | 104  | 83-124 |          | 1.65  | 30 |          |
| 1,2-Dichlorobenzene                               | 9.24 |  | "    | 10.0 |  | 92.4 | 79-123 |          | 3.09  | 30 |          |
| 1,2-Dichloroethane                                | 11.0 |  | "    | 10.0 |  | 110  | 73-132 |          | 16.7  | 30 |          |
| 1,2-Dichloropropane                               | 9.55 |  | "    | 10.0 |  | 95.5 | 78-126 |          | 0.736 | 30 |          |
| 1,3,5-Trimethylbenzene                            | 8.30 |  | "    | 10.0 |  | 83.0 | 80-131 |          | 4.82  | 30 |          |
| 1,3-Dichlorobenzene                               | 8.58 |  | "    | 10.0 |  | 85.8 | 86-122 | Low Bias | 0.697 | 30 |          |
| 1,3-Dichloropropane                               | 9.87 |  | "    | 10.0 |  | 98.7 | 81-125 |          | 1.21  | 30 |          |
| 1,4-Dichlorobenzene                               | 8.85 |  | "    | 10.0 |  | 88.5 | 85-124 |          | 6.45  | 30 |          |
| 2,2-Dichloropropane                               | 5.30 |  | "    | 10.0 |  | 53.0 | 56-150 | Low Bias | 32.0  | 30 | Non-dir. |
| 2-Chlorotoluene                                   | 8.92 |  | "    | 10.0 |  | 89.2 | 79-130 |          | 1.89  | 30 |          |
| 2-Hexanone                                        | 9.33 |  | "    | 10.0 |  | 93.3 | 51-146 |          | 22.5  | 30 |          |
| 4-Chlorotoluene                                   | 8.70 |  | "    | 10.0 |  | 87.0 | 79-128 |          | 6.56  | 30 |          |
| Acetone                                           | 9.46 |  | "    | 10.0 |  | 94.6 | 14-150 |          | 43.2  | 30 | Non-dir. |
| Benzene                                           | 9.14 |  | "    | 10.0 |  | 91.4 | 85-126 |          | 13.6  | 30 |          |
| Bromobenzene                                      | 8.36 |  | "    | 10.0 |  | 83.6 | 78-129 |          | 6.82  | 30 |          |
| Bromochloromethane                                | 9.55 |  | "    | 10.0 |  | 95.5 | 77-128 |          | 21.3  | 30 |          |
| Bromodichloromethane                              | 11.6 |  | "    | 10.0 |  | 116  | 79-128 |          | 0.690 | 30 |          |
| Bromoform                                         | 11.4 |  | "    | 10.0 |  | 114  | 78-133 |          | 1.87  | 30 |          |
| Bromomethane                                      | 8.66 |  | "    | 10.0 |  | 86.6 | 43-168 |          | 10.2  | 30 |          |
| Carbon tetrachloride                              | 10.1 |  | "    | 10.0 |  | 101  | 77-141 |          | 10.8  | 30 |          |
| Chlorobenzene                                     | 9.42 |  | "    | 10.0 |  | 94.2 | 88-120 |          | 2.62  | 30 |          |
| Chloroethane                                      | 7.38 |  | "    | 10.0 |  | 73.8 | 65-136 |          | 14.0  | 30 |          |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

#### LCS Dup (BK41021-BSD1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                  |      |  |      |      |  |      |        |          |       |    |
|----------------------------------|------|--|------|------|--|------|--------|----------|-------|----|
| Chloroform                       | 12.2 |  | ug/L | 10.0 |  | 122  | 82-128 |          | 0.490 | 30 |
| Chloromethane                    | 8.76 |  | "    | 10.0 |  | 87.6 | 43-155 |          | 11.4  | 30 |
| cis-1,2-Dichloroethylene         | 9.45 |  | "    | 10.0 |  | 94.5 | 83-129 |          | 24.1  | 30 |
| cis-1,3-Dichloropropylene        | 9.26 |  | "    | 10.0 |  | 92.6 | 80-131 |          | 0.216 | 30 |
| Dibromochloromethane             | 11.6 |  | "    | 10.0 |  | 116  | 80-130 |          | 0.952 | 30 |
| Dibromomethane                   | 10.8 |  | "    | 10.0 |  | 108  | 72-134 |          | 10.2  | 30 |
| Dichlorodifluoromethane          | 7.45 |  | "    | 10.0 |  | 74.5 | 44-144 |          | 12.8  | 30 |
| Ethyl Benzene                    | 8.85 |  | "    | 10.0 |  | 88.5 | 80-131 |          | 2.35  | 30 |
| Hexachlorobutadiene              | 8.90 |  | "    | 10.0 |  | 89.0 | 67-146 |          | 3.20  | 30 |
| Isopropylbenzene                 | 8.08 |  | "    | 10.0 |  | 80.8 | 76-140 |          | 3.29  | 30 |
| Methyl tert-butyl ether (MTBE)   | 8.47 |  | "    | 10.0 |  | 84.7 | 76-135 |          | 15.3  | 30 |
| Methylene chloride               | 9.13 |  | "    | 10.0 |  | 91.3 | 55-137 |          | 12.8  | 30 |
| Naphthalene                      | 9.56 |  | "    | 10.0 |  | 95.6 | 70-147 |          | 0.314 | 30 |
| n-Butylbenzene                   | 8.60 |  | "    | 10.0 |  | 86.0 | 79-132 |          | 2.00  | 30 |
| n-Propylbenzene                  | 7.85 |  | "    | 10.0 |  | 78.5 | 78-133 |          | 2.27  | 30 |
| o-Xylene                         | 9.53 |  | "    | 10.0 |  | 95.3 | 78-130 |          | 5.41  | 30 |
| p- & m- Xylenes                  | 18.6 |  | "    | 20.0 |  | 92.9 | 77-133 |          | 1.35  | 30 |
| p-Isopropyltoluene               | 8.22 |  | "    | 10.0 |  | 82.2 | 81-136 |          | 4.17  | 30 |
| sec-Butylbenzene                 | 7.84 |  | "    | 10.0 |  | 78.4 | 79-137 | Low Bias | 1.14  | 30 |
| Styrene                          | 9.58 |  | "    | 10.0 |  | 95.8 | 67-132 |          | 2.47  | 30 |
| tert-Butylbenzene                | 8.49 |  | "    | 10.0 |  | 84.9 | 77-138 |          | 0.353 | 30 |
| Tetrachloroethylene              | 8.90 |  | "    | 10.0 |  | 89.0 | 82-131 |          | 2.39  | 30 |
| Toluene                          | 8.75 |  | "    | 10.0 |  | 87.5 | 80-127 |          | 0.114 | 30 |
| trans-1,2-Dichloroethylene       | 8.60 |  | "    | 10.0 |  | 86.0 | 80-132 |          | 13.7  | 30 |
| trans-1,3-Dichloropropylene      | 9.64 |  | "    | 10.0 |  | 96.4 | 78-131 |          | 2.36  | 30 |
| Trichloroethylene                | 10.2 |  | "    | 10.0 |  | 102  | 82-128 |          | 0.493 | 30 |
| Trichlorofluoromethane           | 9.08 |  | "    | 10.0 |  | 90.8 | 67-139 |          | 12.4  | 30 |
| Vinyl Chloride                   | 7.34 |  | "    | 10.0 |  | 73.4 | 58-145 |          | 12.0  | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 12.3 |  | "    | 10.0 |  | 123  | 69-130 |          |       |    |
| Surrogate: p-Bromofluorobenzene  | 9.71 |  | "    | 10.0 |  | 97.1 | 79-122 |          |       |    |
| Surrogate: Toluene-d8            | 9.82 |  | "    | 10.0 |  | 98.2 | 81-117 |          |       |    |



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

**Batch BK40798 - EPA 3010A**

**Blank (BK40798-BLK1)**

Prepared: 11/17/2014 Analyzed: 11/18/2014

|                  |    |        |      |  |  |  |  |  |  |  |  |
|------------------|----|--------|------|--|--|--|--|--|--|--|--|
| Iron - Dissolved | ND | 0.0200 | mg/L |  |  |  |  |  |  |  |  |
|------------------|----|--------|------|--|--|--|--|--|--|--|--|

**Reference (BK40798-SRM1)**

Prepared: 11/17/2014 Analyzed: 11/18/2014

|                  |      |        |      |      |  |     |          |  |  |  |  |
|------------------|------|--------|------|------|--|-----|----------|--|--|--|--|
| Iron - Dissolved | 2.70 | 0.0200 | mg/L | 2.58 |  | 105 | 84.9-115 |  |  |  |  |
|------------------|------|--------|------|------|--|-----|----------|--|--|--|--|

**Batch BK40800 - EPA 3010A**

**Blank (BK40800-BLK1)**

Prepared: 11/17/2014 Analyzed: 11/18/2014

|      |    |        |      |  |  |  |  |  |  |  |  |
|------|----|--------|------|--|--|--|--|--|--|--|--|
| Iron | ND | 0.0200 | mg/L |  |  |  |  |  |  |  |  |
|------|----|--------|------|--|--|--|--|--|--|--|--|

**Reference (BK40800-SRM1)**

Prepared: 11/17/2014 Analyzed: 11/18/2014

|      |      |        |      |      |  |     |          |  |  |  |  |
|------|------|--------|------|------|--|-----|----------|--|--|--|--|
| Iron | 2.68 | 0.0200 | mg/L | 2.58 |  | 104 | 84.9-115 |  |  |  |  |
|------|------|--------|------|------|--|-----|----------|--|--|--|--|





## Miscellaneous Physical Parameters - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK40772 - % Solids Prep

#### Blank (BK40772-BLK1)

Prepared & Analyzed: 11/17/2014

|                        |    |      |      |
|------------------------|----|------|------|
| Total Dissolved Solids | ND | 10.0 | mg/L |
|------------------------|----|------|------|



### Volatile Analysis Sample Containers

| Lab ID     | Client Sample ID | Volatile Sample Container                     |
|------------|------------------|-----------------------------------------------|
| 14K0566-01 | NP2-10           | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0567-01 | NP2-6            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0567-02 | NP2-7            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |



## Notes and Definitions

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-08        | The recovery of this surrogate was outside of QC limits.                                                                                                                                                                                                                                                                                                                                                                                    |
| QL-02       | This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.                                                                                                                                                                                                                                          |
| J           | Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.                                                                                                                                                                                                                                                                     |
| B           | Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.                                                                                                                                                                                                                                   |
| <hr/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                              |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                     |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                    |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                      |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                               |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                             |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.          |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.        |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.





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**YORK**  
ANALYTICAL LABORATORIES

# Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 14K0360

| YOUR INFORMATION                                                                                                                                                                                                                                                                                                                                                                    |                                                                     | Report to:                                                                                                             |                | Invoice To:                                                                                                                                                                                 |                | Your Project ID                                                                                                                                                                            |  | Turn-Around Time                                                                                                                                                                                                     |                   | Report/Deliverable Type                                                                                                                                                  |  |                                                                                                                                                                                                                                                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Company: <u>LBG</u>                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> SAME <input type="checkbox"/> X | Name: _____                                                                                                            | Address: _____ | <input checked="" type="checkbox"/> SAME <input type="checkbox"/> X                                                                                                                         | Name: _____    | Rowe Industries                                                                                                                                                                            |  | RUSH-Same Day                                                                                                                                                                                                        | Summary Report    | X, PDF                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                         |  |
| Address: <u>4 Research Drive</u>                                                                                                                                                                                                                                                                                                                                                    |                                                                     | Company: _____                                                                                                         | Address: _____ |                                                                                                                                                                                             | Company: _____ | Purchase Order #                                                                                                                                                                           |  | RUSH-Next Day                                                                                                                                                                                                        | QA Report         | X, PDF                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                         |  |
| Suite: <u>301, Shelton CT 06484</u>                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                | NABSAG                                                                                                                                                                                     |  | RUSH-Two Day                                                                                                                                                                                                         | CT RCP            |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| Phone: <u>203.929.8555</u>                                                                                                                                                                                                                                                                                                                                                          |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  | RUSH-Three Day                                                                                                                                                                                                       | CT RCP DQ/DUE Pkg |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| Contact: <u>Tunde Sandor</u>                                                                                                                                                                                                                                                                                                                                                        |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  | RUSH-Four Day                                                                                                                                                                                                        | NY ASP A Package  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| E-mail: <u>tsandor@lbgcl.com</u>                                                                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                | Samples from CT, NY, NJ, _____                                                                                                                                                             |  | Standard (5-7 day)                                                                                                                                                                                                   | NY ASP B Package  | X, PDF                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b></p> <p><u>Mark K. Goldberg</u><br/>Samples Collected/Authorized By (Signature)<br/>Name (printed) <u>Mark K. Goldberg</u></p>                                                          |                                                                     |                                                                                                                        |                | <p><b>Matrix Codes</b></p> <p>S - soil<br/>Other - specify (oil, etc.)<br/>WW - wastewater<br/>GW - groundwater<br/>DW - drinking water<br/>Air-A - ambient air<br/>Air-SV - soil vapor</p> |                | <p><b>Volatiles</b></p> <p>8260 full<br/>624<br/>STARS list<br/>BTEX<br/>MTBE<br/>TCL list<br/>TAGM list<br/>CT RCP list<br/>Arom. only<br/>Halog. only<br/>App IX list<br/>8021B list</p> |  | <p><b>Semi-Vols, Pest/Chlorinated</b></p> <p>8270 or 625<br/>STARS list<br/>BN Only<br/>Acids Only<br/>PAH list<br/>TAGM list<br/>CT RCP list<br/>TCL list<br/>NIDE list<br/>App IX<br/>TCLP BNA<br/>SP Port TCP</p> |                   | <p><b>Metals</b></p> <p>RCCAS<br/>PPI3 list<br/>TAL<br/>CTI5 list<br/>TAGM list<br/>NIDE list<br/>Total<br/>Dissolved<br/>SP Port TCP<br/>Inhib. Meak<br/>LIST Below</p> |  | <p><b>Full Lists</b></p> <p>Ph. Poll.<br/>TCL GRO<br/>TCL DRO<br/>CT ETPH<br/>NY 310-13<br/>Full TCP<br/>Full App IX<br/>Part 360-Exempt<br/>Part 360-Exempt<br/>Part 360-Exempt<br/>Part 360-Exempt<br/>NYCDEP-Exempt<br/>NYCDEP-Exempt<br/>NYCDEP-Exempt<br/>TAGM</p> |  |
| <p><b>Analysis Requested (List above includes common analysis)</b></p> <p>Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113</p> <p>Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113</p> <p>Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS</p>                                                         |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Sample Identification</b></p> <p><u>AP2-6</u><br/><u>AP2-7</u><br/><u>AP2-10</u></p>                                                                                                                                                                                                                                                                                          |                                                                     | <p><b>Date+Time Sampled</b></p> <p><u>11/13/14 9:30 am</u><br/><u>11/13/14 9:35 am</u><br/><u>11/13/14 9:40 am</u></p> |                | <p><b>Matrix</b></p> <p><u>GW</u></p>                                                                                                                                                       |                | <p><b>Container Description</b></p>                                                                                                                                                        |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Comments:</b></p>                                                                                                                                                                                                                                                                                                                                                             |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Preservation</b> (check all applicable)<br/>4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO<sub>3</sub> <input type="checkbox"/> NaOH <input type="checkbox"/><br/>ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/></p>                        |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Special Instructions</b><br/>Field Filtered <input type="checkbox"/><br/>Lab to Filter <input type="checkbox"/></p>                                                                                                                                                                                                                                                           |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |
| <p><b>Samples Relinquished By</b> <u>Mark K. Goldberg</u> <u>11/14/14 11:10</u><br/><b>Samples Relinquished By</b> <u>Mark K. Goldberg</u> <u>11-14-14 1300</u><br/><b>Samples Received By</b> <u>Mark K. Goldberg</u> <u>11/14/14 11:10</u><br/><b>Samples Received in LAB by</b> <u>Mark K. Goldberg</u> <u>11-14-14 1300</u><br/><b>Temperature on Receipt</b> <u>4.4 °C</u></p> |                                                                     |                                                                                                                        |                |                                                                                                                                                                                             |                |                                                                                                                                                                                            |  |                                                                                                                                                                                                                      |                   |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                         |  |



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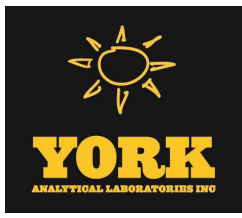
# Field Chain-of-Custody Record

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.

York Project No. 4K0567

Page 1 of 1

| YOUR INFORMATION                                                                                                                                                                                                                                                                                                 |                                  | Report to:                                                                                                                                       |                             | Invoice To:                                                                                                                                                                                        |  | Your Project ID                                                                                                                                                                                                                       |  | Turn-Around Time                                                                                                                                                                     |  | Report/Deliverable Type                                                                                                                                                                                         |  |                                                                                                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------|--|
| Company: <u>LBG</u>                                                                                                                                                                                                                                                                                              | Company: <u>LBG</u>              | Name: <u>[Signature]</u>                                                                                                                         | Name: <u>[Signature]</u>    | RUSH-Same Day                                                                                                                                                                                      |  | Rowe Industries                                                                                                                                                                                                                       |  | RUSH-Same Day                                                                                                                                                                        |  | Summary Report                                                                                                                                                                                                  |  |                                                                                                                   |  |
| Address: <u>4 Research Drive</u>                                                                                                                                                                                                                                                                                 | Address: <u>4 Research Drive</u> | Company: <u>[Signature]</u>                                                                                                                      | Company: <u>[Signature]</u> | RUSH-Next Day                                                                                                                                                                                      |  | Purchase Order #                                                                                                                                                                                                                      |  | RUSH-Next Day                                                                                                                                                                        |  | QA Report                                                                                                                                                                                                       |  |                                                                                                                   |  |
| Phone: <u>203.929.8555</u>                                                                                                                                                                                                                                                                                       | Phone: <u>203.929.8555</u>       | Address: <u>[Signature]</u>                                                                                                                      | Address: <u>[Signature]</u> | RUSH-Two Day                                                                                                                                                                                       |  | NABSAG                                                                                                                                                                                                                                |  | RUSH-Two Day                                                                                                                                                                         |  | CT RCP                                                                                                                                                                                                          |  |                                                                                                                   |  |
| Contact: <u>Tunde Sandor</u>                                                                                                                                                                                                                                                                                     | Contact: <u>Tunde Sandor</u>     | E-mail: <u>[Signature]</u>                                                                                                                       | E-mail: <u>[Signature]</u>  | RUSH-Three Day                                                                                                                                                                                     |  | Samples from CT_NY_x_NJ                                                                                                                                                                                                               |  | RUSH-Three Day                                                                                                                                                                       |  | CT RCP DQADUE Pkg                                                                                                                                                                                               |  |                                                                                                                   |  |
| E-mail: <u>Tsandor@lbgat.com</u>                                                                                                                                                                                                                                                                                 | E-mail: <u>Tsandor@lbgat.com</u> | Matrix Codes                                                                                                                                     |                             | RUSH-Four Day                                                                                                                                                                                      |  | Standard (5-7day)                                                                                                                                                                                                                     |  | RUSH-Four Day                                                                                                                                                                        |  | NY ASP A Package                                                                                                                                                                                                |  |                                                                                                                   |  |
| <b>Print Clearly and Legibly. All Information must be complete.</b><br><b>Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b><br><u>[Signature]</u><br>Samples Collected/Authorized By (Signature)<br><u>[Signature]</u><br>Name (printed) |                                  | S. soil<br>Other - specify (oil, ac)<br>WW - wastewater<br>GW - groundwater<br>DW - drinking water<br>Air-A - ambient air<br>Air-SV - soil vapor |                             | Volatiles<br>8260 full<br>624<br>Site Spec.<br>Nassau Co.<br>Suffolk Co.<br>MTBE<br>TCE list<br>Oxyanions<br>TACM list<br>CT RCP list<br>Arcom. only<br>Holog. only<br>App. IN list<br>8021 B list |  | Semi-Vol. Pesticides<br>8270 or 625<br>STARS list<br>BN Only<br>Aids Only<br>PAH list<br>TACM list<br>CT RCP list<br>TCE list<br>NDEP list<br>App. IN<br>STP P/TCLP<br>808 PCB                                                        |  | Metals<br>RCRAs<br>PP13 list<br>TAL<br>CTLS list<br>TACM list<br>NDEP list<br>Site Spec.<br>STP P/TCLP<br>Dissolved<br>STP P/TCLP<br>Herb. Metals<br>LIST Below<br>Methane<br>Helium |  | Full Lists<br>Ph. Poll.<br>TCL Organics<br>TALMACN<br>Full TCLP<br>Full App. IX<br>Part 360 Heavy<br>Part 360 Pesticides<br>Part 360 Metals<br>Part 360 Air<br>NYDEP Sewer<br>NYDEP Soil<br>NYDEP Sewer<br>TACM |  | Excel<br>NYSDCE EQuls<br>NUDEP SRP HazSite<br>EQuls<br>GISKEY (std)<br>YORK Regulatory Comp Excel<br>compared to: |  |
| OTHER:                                                                                                                                                                                                                                                                                                           |                                  | Container Description                                                                                                                            |                             | Analysis Requested (List above includes common analysis)                                                                                                                                           |  | Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113<br>Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113<br>Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS |  |                                                                                                                                                                                      |  |                                                                                                                                                                                                                 |  |                                                                                                                   |  |
| Sample Identification                                                                                                                                                                                                                                                                                            |                                  | Date/Time Sampled                                                                                                                                |                             | Matrix                                                                                                                                                                                             |  | Preservation (check all applicable)                                                                                                                                                                                                   |  | 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO <sub>3</sub> _____ NaOH _____<br>ZnAc _____ Ascorbic Acid _____ Other _____                                                          |  | Comments:                                                                                                                                                                                                       |  |                                                                                                                   |  |
| <u>102-6</u>                                                                                                                                                                                                                                                                                                     |                                  | <u>11/13/14 9:30 AM</u>                                                                                                                          |                             | <u>GW</u>                                                                                                                                                                                          |  | Special Instructions<br>Field Filtered <input type="checkbox"/><br>Lab to Filter <input type="checkbox"/>                                                                                                                             |  | Samples Relinquished By <u>[Signature]</u> Date/Time <u>11/14/14 11:10</u>                                                                                                           |  | Samples Received By <u>[Signature]</u> Date/Time <u>11/14/14 13:00</u>                                                                                                                                          |  |                                                                                                                   |  |
| <u>102-7</u>                                                                                                                                                                                                                                                                                                     |                                  | <u>11/13/14 9:35 AM</u>                                                                                                                          |                             | <u>[Signature]</u>                                                                                                                                                                                 |  | Temperature<br>In Receipt <u>4.4°C</u>                                                                                                                                                                                                |  | Samples Relinquished By <u>[Signature]</u> Date/Time <u>11/14/14 13:00</u>                                                                                                           |  | Samples Received By <u>[Signature]</u> Date/Time <u>11/14/14 13:00</u>                                                                                                                                          |  |                                                                                                                   |  |
| <u>102-10</u>                                                                                                                                                                                                                                                                                                    |                                  | <u>11/13/14 9:40 AM</u>                                                                                                                          |                             |                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                      |  |                                                                                                                                                                                                                 |  |                                                                                                                   |  |



# Technical Report

prepared for:

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204

Shelton CT, 06484

**Attention: Tunde Komuves-Sandor**

Report Date: 12/04/2014

**Client Project ID: Rowe Industries Site**

York Project (SDG) No.: 14K0896

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 12/04/2014  
Client Project ID: Rowe Industries Site  
York Project (SDG) No.: 14K0896

**Leggette Brashears & Graham Shelton Office**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 25, 2014 and listed below. The project was identified as your project: **Rowe Industries Site**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|---------------|-----------------------|----------------------|
| 14K0896-01            | WQ112414:1110NP2-10     | Water         | 11/24/2014            | 11/25/2014           |
| 14K0897-01            | WQ112414:1100NP2-6      | Water         | 11/24/2014            | 11/25/2014           |
| 14K0897-02            | WQ112414:1105NP2-7      | Water         | 11/24/2014            | 11/25/2014           |

## General Notes for York Project (SDG) No.: 14K0896

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 12/04/2014







## Sample Information

**Client Sample ID:** WQ112414:1110NP2-10

**York Sample ID:** 14K0896-01

York Project (SDG) No.

14K0896

Client Project ID

Rowe Industries Site

Matrix

Water

Collection Date/Time

November 24, 2014 11:10 am

Date Received

11/25/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result     | Flag     | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|------------|----------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 67-64-1  | <b>Acetone</b>                                       | <b>1.4</b> | Cal-E, J | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 71-43-2  | Benzene                                              | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 108-86-1 | Bromobenzene                                         | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-25-2  | Bromoform                                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 74-83-9  | Bromomethane                                         | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |



## Sample Information

**Client Sample ID:** WQ112414:1110NP2-10

**York Sample ID:** 14K0896-01

York Project (SDG) No.  
14K0896

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:10 am

Date Received  
11/25/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag                    | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|-------------------------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 75-00-3                     | Chloroethane                     | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 67-66-3                     | Chloroform                       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 74-87-3                     | Chloromethane                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 156-59-2                    | cis-1,2-Dichloroethylene         | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 10061-01-5                  | cis-1,3-Dichloropropylene        | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 124-48-1                    | Dibromochloromethane             | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 74-95-3                     | Dibromomethane                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-71-8                     | Dichlorodifluoromethane          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 100-41-4                    | Ethyl Benzene                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 87-68-3                     | Hexachlorobutadiene              | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 98-82-8                     | Isopropylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 1634-04-4                   | Methyl tert-butyl ether (MTBE)   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-09-2                     | Methylene chloride               | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 91-20-3                     | Naphthalene                      | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 104-51-8                    | n-Butylbenzene                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |                         | ug/L  | 0.50                   | 1.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 100-42-5                    | Styrene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 127-18-4                    | Tetrachloroethylene              | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 108-88-3                    | Toluene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 79-01-6                     | Trichloroethylene                | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |                         | ug/L  | 0.60                   | 1.5  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:10      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> | <b>Acceptance Range</b> |       |                        |      |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 107 %         | 69-130                  |       |                        |      |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 103 %         | 79-122                  |       |                        |      |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 102 %         | 81-117                  |       |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** WQ112414:1110NP2-10

**York Sample ID:** 14K0896-01

York Project (SDG) No.  
14K0896

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:10 am

Date Received  
11/25/2014

### Iron by EPA 200.7

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 2.75   |      | mg/L  | 0.0146  | 0.0200             | 1        | EPA 200.7        | 12/02/2014 14:50      | 12/03/2014 03:56      | MW      |

### Iron, Dissolved by EPA 6010

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.0935 |      | mg/L  | 0.0200  | 0.0200             | 1        | EPA 6010C        | 12/02/2014 14:48      | 12/03/2014 02:51      | MW      |

### Total Dissolved Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

| CAS No. | Parameter              | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|------------------------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
|         | Total Dissolved Solids | 162    |      | mg/L  | 10.0    | 10.0               | 1        | SM 2540C         | 11/25/2014 14:51      | 11/26/2014 11:40      | AA      |

## Sample Information

**Client Sample ID:** WQ112414:1100NP2-6

**York Sample ID:** 14K0897-01

York Project (SDG) No.  
14K0897

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:00 am

Date Received  
11/25/2014

### Volatile Organics, 8260 List - Low Level

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20    | 0.50               | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |



## Sample Information

**Client Sample ID:** WQ112414:1100NP2-6

**York Sample ID:** 14K0897-01

York Project (SDG) No.  
14K0897

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:00 am

Date Received  
11/25/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.    | Parameter                       | Result      | Flag     | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|------------|---------------------------------|-------------|----------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 96-12-8    | 1,2-Dibromo-3-chloropropane     | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 106-93-4   | 1,2-Dibromoethane               | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 95-50-1    | 1,2-Dichlorobenzene             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 107-06-2   | 1,2-Dichloroethane              | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 78-87-5    | 1,2-Dichloropropane             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 108-67-8   | 1,3,5-Trimethylbenzene          | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 541-73-1   | 1,3-Dichlorobenzene             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 142-28-9   | 1,3-Dichloropropane             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 106-46-7   | 1,4-Dichlorobenzene             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 594-20-7   | 2,2-Dichloropropane             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 95-49-8    | 2-Chlorotoluene                 | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 591-78-6   | 2-Hexanone                      | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 106-43-4   | 4-Chlorotoluene                 | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 67-64-1    | <b>Acetone</b>                  | <b>1.6</b>  | Cal-E, J | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 71-43-2    | Benzene                         | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 108-86-1   | Bromobenzene                    | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 74-97-5    | Bromochloromethane              | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-27-4    | Bromodichloromethane            | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-25-2    | Bromoform                       | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 74-83-9    | Bromomethane                    | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 56-23-5    | Carbon tetrachloride            | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 108-90-7   | Chlorobenzene                   | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-00-3    | Chloroethane                    | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 67-66-3    | Chloroform                      | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 74-87-3    | Chloromethane                   | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 156-59-2   | <b>cis-1,2-Dichloroethylene</b> | <b>0.41</b> | J        | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 10061-01-5 | cis-1,3-Dichloropropylene       | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 124-48-1   | Dibromochloromethane            | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 74-95-3    | Dibromomethane                  | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-71-8    | Dichlorodifluoromethane         | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 100-41-4   | Ethyl Benzene                   | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 87-68-3    | Hexachlorobutadiene             | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 98-82-8    | Isopropylbenzene                | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 1634-04-4  | Methyl tert-butyl ether (MTBE)  | ND          |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-09-2    | Methylene chloride              | ND          |          | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 91-20-3    | Naphthalene                     | ND          |          | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |



## Sample Information

**Client Sample ID:** WQ112414:1100NP2-6

**York Sample ID:** 14K0897-01

York Project (SDG) No.  
14K0897

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:00 am

Date Received  
11/25/2014

### Volatile Organics, 8260 List - Low Level

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag | Units                   | Reported to<br>LOD/MDL | LOQ    | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|------|-------------------------|------------------------|--------|----------|------------------|-----------------------|-----------------------|---------|
| 104-51-8                    | n-Butylbenzene                   | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |      | ug/L                    | 0.50                   | 1.0    | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 100-42-5                    | Styrene                          | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 127-18-4                    | <b>Tetrachloroethylene</b>       | <b>0.90</b>   |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 108-88-3                    | Toluene                          | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 79-01-6                     | <b>Trichloroethylene</b>         | <b>0.38</b>   | J    | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |      | ug/L                    | 0.20                   | 0.50   | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |      | ug/L                    | 0.60                   | 1.5    | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 01:43      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> |      | <b>Acceptance Range</b> |                        |        |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 109 %         |      |                         |                        | 69-130 |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 95.1 %        |      |                         |                        | 79-122 |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 100 %         |      |                         |                        | 81-117 |          |                  |                       |                       |         |

### Iron by EPA 200.7

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter   | Result      | Flag | Units | Reported to<br>LOD/MDL | LOQ    | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-------------|-------------|------|-------|------------------------|--------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | <b>Iron</b> | <b>2.47</b> |      | mg/L  | 0.0146                 | 0.0200 | 1        | EPA 200.7        | 12/02/2014 14:50      | 12/03/2014 04:01      | MW      |

### Iron, Dissolved by EPA 6010

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ    | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|------------------------|--------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | ND     |      | mg/L  | 0.0200                 | 0.0200 | 1        | EPA 6010C        | 12/02/2014 14:48      | 12/03/2014 03:22      | MW      |



## Sample Information

**Client Sample ID:** WQ112414:1105NP2-7

**York Sample ID:** 14K0897-02

York Project (SDG) No.

14K0897

Client Project ID

Rowe Industries Site

Matrix

Water

Collection Date/Time

November 24, 2014 11:05 am

Date Received

11/25/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result     | Flag     | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|------------|----------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 67-64-1  | <b>Acetone</b>                                       | <b>1.5</b> | Cal-E, J | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 71-43-2  | Benzene                                              | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 108-86-1 | Bromobenzene                                         | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-25-2  | Bromoform                                            | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 74-83-9  | Bromomethane                                         | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND         |          | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |



## Sample Information

**Client Sample ID:** WQ112414:1105NP2-7

**York Sample ID:** 14K0897-02

York Project (SDG) No.  
14K0897

Client Project ID  
Rowe Industries Site

Matrix  
Water

Collection Date/Time  
November 24, 2014 11:05 am

Date Received  
11/25/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag                    | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|-------------------------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 75-00-3                     | Chloroethane                     | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 67-66-3                     | Chloroform                       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 74-87-3                     | Chloromethane                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 156-59-2                    | cis-1,2-Dichloroethylene         | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 10061-01-5                  | cis-1,3-Dichloropropylene        | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 124-48-1                    | Dibromochloromethane             | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 74-95-3                     | Dibromomethane                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-71-8                     | Dichlorodifluoromethane          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 100-41-4                    | Ethyl Benzene                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 87-68-3                     | Hexachlorobutadiene              | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 98-82-8                     | Isopropylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 1634-04-4                   | Methyl tert-butyl ether (MTBE)   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-09-2                     | Methylene chloride               | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 91-20-3                     | Naphthalene                      | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 104-51-8                    | n-Butylbenzene                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |                         | ug/L  | 0.50                   | 1.0  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 100-42-5                    | Styrene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 127-18-4                    | Tetrachloroethylene              | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 108-88-3                    | Toluene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 79-01-6                     | Trichloroethylene                | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |                         | ug/L  | 0.60                   | 1.5  | 1        | EPA 8260C        | 12/02/2014 17:10      | 12/03/2014 02:16      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> | <b>Acceptance Range</b> |       |                        |      |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 99.8 %        | 69-130                  |       |                        |      |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 97.4 %        | 79-122                  |       |                        |      |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 103 %         | 81-117                  |       |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** WQ112414:1105NP2-7

**York Sample ID:** 14K0897-02

York Project (SDG) No.

14K0897

Client Project ID

Rowe Industries Site

Matrix

Water

Collection Date/Time

November 24, 2014 11:05 am

Date Received

11/25/2014

### Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.810  |      | mg/L  | 0.0146  | 0.0200             | 1        | EPA 200.7        | 12/02/2014 14:50      | 12/03/2014 04:06      | MW      |

### Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

| CAS No.   | Parameter | Result | Flag | Units | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------|-----------|--------|------|-------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 7439-89-6 | Iron      | 0.108  |      | mg/L  | 0.0200  | 0.0200             | 1        | EPA 6010C        | 12/02/2014 14:48      | 12/03/2014 03:27      | MW      |





## Analytical Batch Summary

**Batch ID:** BK41211      **Preparation Method:** % Solids Prep      **Prepared By:** AA

| YORK Sample ID | Client Sample ID    | Preparation Date |
|----------------|---------------------|------------------|
| 14K0896-01     | WQ112414:1110NP2-10 | 11/25/14         |
| BK41211-BLK1   | Blank               | 11/25/14         |
| BK41211-DUP1   | Duplicate           | 11/25/14         |

**Batch ID:** BL40127      **Preparation Method:** EPA 3010A      **Prepared By:** MW

| YORK Sample ID | Client Sample ID    | Preparation Date |
|----------------|---------------------|------------------|
| 14K0896-01     | WQ112414:1110NP2-10 | 12/02/14         |
| 14K0897-01     | WQ112414:1100NP2-6  | 12/02/14         |
| 14K0897-02     | WQ112414:1105NP2-7  | 12/02/14         |
| BL40127-BLK1   | Blank               | 12/02/14         |
| BL40127-DUP1   | Duplicate           | 12/02/14         |
| BL40127-MS1    | Matrix Spike        | 12/02/14         |
| BL40127-SRM1   | Reference           | 12/02/14         |

**Batch ID:** BL40128      **Preparation Method:** EPA 3010A      **Prepared By:** MW

| YORK Sample ID | Client Sample ID    | Preparation Date |
|----------------|---------------------|------------------|
| 14K0896-01     | WQ112414:1110NP2-10 | 12/02/14         |
| 14K0897-01     | WQ112414:1100NP2-6  | 12/02/14         |
| 14K0897-02     | WQ112414:1105NP2-7  | 12/02/14         |
| BL40128-BLK1   | Blank               | 12/02/14         |
| BL40128-SRM1   | Reference           | 12/02/14         |

**Batch ID:** BL40143      **Preparation Method:** EPA 5030B      **Prepared By:** BGS

| YORK Sample ID | Client Sample ID    | Preparation Date |
|----------------|---------------------|------------------|
| 14K0896-01     | WQ112414:1110NP2-10 | 12/02/14         |
| 14K0897-01     | WQ112414:1100NP2-6  | 12/02/14         |
| 14K0897-02     | WQ112414:1105NP2-7  | 12/02/14         |
| BL40143-BLK1   | Blank               | 12/02/14         |
| BL40143-BS1    | LCS                 | 12/02/14         |
| BL40143-BSD1   | LCS Dup             | 12/02/14         |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BL40143 - EPA 5030B

##### Blank (BL40143-BLK1)

Prepared & Analyzed: 12/02/2014

|                                                   |      |      |      |
|---------------------------------------------------|------|------|------|
| 1,1,1,2-Tetrachloroethane                         | ND   | 0.50 | ug/L |
| 1,1,1-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1,2,2-Tetrachloroethane                         | ND   | 0.50 | "    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND   | 0.50 | "    |
| 1,1,2-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1-Dichloroethane                                | ND   | 0.50 | "    |
| 1,1-Dichloroethylene                              | ND   | 0.50 | "    |
| 1,1-Dichloropropylene                             | ND   | 0.50 | "    |
| 1,2,3-Trichlorobenzene                            | 0.27 | 0.50 | "    |
| 1,2,3-Trichloropropane                            | ND   | 0.50 | "    |
| 1,2,4-Trichlorobenzene                            | 0.31 | 0.50 | "    |
| 1,2,4-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,2-Dibromo-3-chloropropane                       | ND   | 0.50 | "    |
| 1,2-Dibromoethane                                 | ND   | 0.50 | "    |
| 1,2-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,2-Dichloroethane                                | ND   | 0.50 | "    |
| 1,2-Dichloropropane                               | ND   | 0.50 | "    |
| 1,3,5-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,3-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,3-Dichloropropane                               | ND   | 0.50 | "    |
| 1,4-Dichlorobenzene                               | ND   | 0.50 | "    |
| 2,2-Dichloropropane                               | ND   | 0.50 | "    |
| 2-Chlorotoluene                                   | ND   | 0.50 | "    |
| 2-Hexanone                                        | ND   | 0.50 | "    |
| 4-Chlorotoluene                                   | ND   | 0.50 | "    |
| Acetone                                           | ND   | 2.0  | "    |
| Benzene                                           | ND   | 0.50 | "    |
| Bromobenzene                                      | ND   | 0.50 | "    |
| Bromochloromethane                                | ND   | 0.50 | "    |
| Bromodichloromethane                              | ND   | 0.50 | "    |
| Bromoform                                         | ND   | 0.50 | "    |
| Bromomethane                                      | ND   | 0.50 | "    |
| Carbon tetrachloride                              | ND   | 0.50 | "    |
| Chlorobenzene                                     | ND   | 0.50 | "    |
| Chloroethane                                      | ND   | 0.50 | "    |
| Chloroform                                        | ND   | 0.50 | "    |
| Chloromethane                                     | ND   | 0.50 | "    |
| cis-1,2-Dichloroethylene                          | ND   | 0.50 | "    |
| cis-1,3-Dichloropropylene                         | ND   | 0.50 | "    |
| Dibromochloromethane                              | ND   | 0.50 | "    |
| Dibromomethane                                    | ND   | 0.50 | "    |
| Dichlorodifluoromethane                           | ND   | 0.50 | "    |
| Ethyl Benzene                                     | ND   | 0.50 | "    |
| Hexachlorobutadiene                               | ND   | 0.50 | "    |
| Isopropylbenzene                                  | ND   | 0.50 | "    |
| Methyl tert-butyl ether (MTBE)                    | ND   | 0.50 | "    |
| Methylene chloride                                | 1.1  | 2.0  | "    |
| Naphthalene                                       | ND   | 2.0  | "    |
| n-Butylbenzene                                    | ND   | 0.50 | "    |
| n-Propylbenzene                                   | ND   | 0.50 | "    |
| o-Xylene                                          | ND   | 0.50 | "    |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BL40143 - EPA 5030B

##### Blank (BL40143-BLK1)

Prepared & Analyzed: 12/02/2014

|                             |    |      |      |
|-----------------------------|----|------|------|
| p- & m- Xylenes             | ND | 1.0  | ug/L |
| p-Isopropyltoluene          | ND | 0.50 | "    |
| sec-Butylbenzene            | ND | 0.50 | "    |
| Styrene                     | ND | 0.50 | "    |
| tert-Butylbenzene           | ND | 0.50 | "    |
| Tetrachloroethylene         | ND | 0.50 | "    |
| Toluene                     | ND | 0.50 | "    |
| trans-1,2-Dichloroethylene  | ND | 0.50 | "    |
| trans-1,3-Dichloropropylene | ND | 0.50 | "    |
| Trichloroethylene           | ND | 0.50 | "    |
| Trichlorofluoromethane      | ND | 0.50 | "    |
| Vinyl Chloride              | ND | 0.50 | "    |
| Xylenes, Total              | ND | 1.5  | "    |

|                                  |      |   |      |      |        |
|----------------------------------|------|---|------|------|--------|
| Surrogate: 1,2-Dichloroethane-d4 | 10.8 | " | 10.0 | 108  | 69-130 |
| Surrogate: p-Bromofluorobenzene  | 9.67 | " | 10.0 | 96.7 | 79-122 |
| Surrogate: Toluene-d8            | 9.95 | " | 10.0 | 99.5 | 81-117 |

##### LCS (BL40143-BS1)

Prepared & Analyzed: 12/02/2014

|                                                   |      |      |      |      |        |
|---------------------------------------------------|------|------|------|------|--------|
| 1,1,1,2-Tetrachloroethane                         | 9.67 | ug/L | 10.0 | 96.7 | 82-126 |
| 1,1,1-Trichloroethane                             | 10.4 | "    | 10.0 | 104  | 78-136 |
| 1,1,2,2-Tetrachloroethane                         | 11.0 | "    | 10.0 | 110  | 76-129 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.44 | "    | 10.0 | 94.4 | 54-165 |
| 1,1,2-Trichloroethane                             | 10.4 | "    | 10.0 | 104  | 82-123 |
| 1,1-Dichloroethane                                | 9.67 | "    | 10.0 | 96.7 | 82-129 |
| 1,1-Dichloroethylene                              | 9.65 | "    | 10.0 | 96.5 | 68-138 |
| 1,1-Dichloropropylene                             | 9.05 | "    | 10.0 | 90.5 | 83-133 |
| 1,2,3-Trichlorobenzene                            | 11.6 | "    | 10.0 | 116  | 76-136 |
| 1,2,3-Trichloropropane                            | 9.12 | "    | 10.0 | 91.2 | 77-128 |
| 1,2,4-Trichlorobenzene                            | 10.9 | "    | 10.0 | 109  | 76-137 |
| 1,2,4-Trimethylbenzene                            | 9.95 | "    | 10.0 | 99.5 | 82-132 |
| 1,2-Dibromo-3-chloropropane                       | 10.3 | "    | 10.0 | 103  | 45-147 |
| 1,2-Dibromoethane                                 | 9.87 | "    | 10.0 | 98.7 | 83-124 |
| 1,2-Dichlorobenzene                               | 10.6 | "    | 10.0 | 106  | 79-123 |
| 1,2-Dichloroethane                                | 10.3 | "    | 10.0 | 103  | 73-132 |
| 1,2-Dichloropropane                               | 9.80 | "    | 10.0 | 98.0 | 78-126 |
| 1,3,5-Trimethylbenzene                            | 9.94 | "    | 10.0 | 99.4 | 80-131 |
| 1,3-Dichlorobenzene                               | 10.1 | "    | 10.0 | 101  | 86-122 |
| 1,3-Dichloropropane                               | 9.82 | "    | 10.0 | 98.2 | 81-125 |
| 1,4-Dichlorobenzene                               | 10.7 | "    | 10.0 | 107  | 85-124 |
| 2,2-Dichloropropane                               | 9.13 | "    | 10.0 | 91.3 | 56-150 |
| 2-Chlorotoluene                                   | 9.89 | "    | 10.0 | 98.9 | 79-130 |
| 2-Hexanone                                        | 8.70 | "    | 10.0 | 87.0 | 51-146 |
| 4-Chlorotoluene                                   | 9.63 | "    | 10.0 | 96.3 | 79-128 |
| Acetone                                           | 7.78 | "    | 10.0 | 77.8 | 14-150 |
| Benzene                                           | 10.4 | "    | 10.0 | 104  | 85-126 |
| Bromobenzene                                      | 10.4 | "    | 10.0 | 104  | 78-129 |
| Bromochloromethane                                | 10.0 | "    | 10.0 | 100  | 77-128 |
| Bromodichloromethane                              | 9.84 | "    | 10.0 | 98.4 | 79-128 |
| Bromoform                                         | 9.97 | "    | 10.0 | 99.7 | 78-133 |
| Bromomethane                                      | 9.68 | "    | 10.0 | 96.8 | 43-168 |
| Carbon tetrachloride                              | 9.56 | "    | 10.0 | 95.6 | 77-141 |
| Chlorobenzene                                     | 10.1 | "    | 10.0 | 101  | 88-120 |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BL40143 - EPA 5030B

#### LCS (BL40143-BS1)

Prepared & Analyzed: 12/02/2014

|                                         |             |  |          |             |  |             |               |  |  |  |  |
|-----------------------------------------|-------------|--|----------|-------------|--|-------------|---------------|--|--|--|--|
| Chloroethane                            | 9.00        |  | ug/L     | 10.0        |  | 90.0        | 65-136        |  |  |  |  |
| Chloroform                              | 9.54        |  | "        | 10.0        |  | 95.4        | 82-128        |  |  |  |  |
| Chloromethane                           | 9.02        |  | "        | 10.0        |  | 90.2        | 43-155        |  |  |  |  |
| cis-1,2-Dichloroethylene                | 9.75        |  | "        | 10.0        |  | 97.5        | 83-129        |  |  |  |  |
| cis-1,3-Dichloropropylene               | 9.55        |  | "        | 10.0        |  | 95.5        | 80-131        |  |  |  |  |
| Dibromochloromethane                    | 9.73        |  | "        | 10.0        |  | 97.3        | 80-130        |  |  |  |  |
| Dibromomethane                          | 9.86        |  | "        | 10.0        |  | 98.6        | 72-134        |  |  |  |  |
| Dichlorodifluoromethane                 | 7.09        |  | "        | 10.0        |  | 70.9        | 44-144        |  |  |  |  |
| Ethyl Benzene                           | 9.30        |  | "        | 10.0        |  | 93.0        | 80-131        |  |  |  |  |
| Hexachlorobutadiene                     | 9.98        |  | "        | 10.0        |  | 99.8        | 67-146        |  |  |  |  |
| Isopropylbenzene                        | 9.97        |  | "        | 10.0        |  | 99.7        | 76-140        |  |  |  |  |
| Methyl tert-butyl ether (MTBE)          | 9.83        |  | "        | 10.0        |  | 98.3        | 76-135        |  |  |  |  |
| Methylene chloride                      | 12.4        |  | "        | 10.0        |  | 124         | 55-137        |  |  |  |  |
| Naphthalene                             | 11.7        |  | "        | 10.0        |  | 117         | 70-147        |  |  |  |  |
| n-Butylbenzene                          | 10.3        |  | "        | 10.0        |  | 103         | 79-132        |  |  |  |  |
| n-Propylbenzene                         | 10.4        |  | "        | 10.0        |  | 104         | 78-133        |  |  |  |  |
| o-Xylene                                | 9.39        |  | "        | 10.0        |  | 93.9        | 78-130        |  |  |  |  |
| p- & m- Xylenes                         | 18.8        |  | "        | 20.0        |  | 93.9        | 77-133        |  |  |  |  |
| p-Isopropyltoluene                      | 10.4        |  | "        | 10.0        |  | 104         | 81-136        |  |  |  |  |
| sec-Butylbenzene                        | 10.3        |  | "        | 10.0        |  | 103         | 79-137        |  |  |  |  |
| Styrene                                 | 9.14        |  | "        | 10.0        |  | 91.4        | 67-132        |  |  |  |  |
| tert-Butylbenzene                       | 10.2        |  | "        | 10.0        |  | 102         | 77-138        |  |  |  |  |
| Tetrachloroethylene                     | 9.29        |  | "        | 10.0        |  | 92.9        | 82-131        |  |  |  |  |
| Toluene                                 | 9.37        |  | "        | 10.0        |  | 93.7        | 80-127        |  |  |  |  |
| trans-1,2-Dichloroethylene              | 9.75        |  | "        | 10.0        |  | 97.5        | 80-132        |  |  |  |  |
| trans-1,3-Dichloropropylene             | 8.96        |  | "        | 10.0        |  | 89.6        | 78-131        |  |  |  |  |
| Trichloroethylene                       | 9.92        |  | "        | 10.0        |  | 99.2        | 82-128        |  |  |  |  |
| Trichlorofluoromethane                  | 9.83        |  | "        | 10.0        |  | 98.3        | 67-139        |  |  |  |  |
| Vinyl Chloride                          | 8.95        |  | "        | 10.0        |  | 89.5        | 58-145        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>10.1</i> |  | <i>"</i> | <i>10.0</i> |  | <i>101</i>  | <i>69-130</i> |  |  |  |  |
| <i>Surrogate: p-Bromofluorobenzene</i>  | <i>9.23</i> |  | <i>"</i> | <i>10.0</i> |  | <i>92.3</i> | <i>79-122</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>8.60</i> |  | <i>"</i> | <i>10.0</i> |  | <i>86.0</i> | <i>81-117</i> |  |  |  |  |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte                                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC                            | %REC<br>Limits | Flag | RPD   | RPD<br>Limit | Flag |
|---------------------------------------------------|--------|--------------------|-------|----------------|-------------------|---------------------------------|----------------|------|-------|--------------|------|
| <b>Batch BL40143 - EPA 5030B</b>                  |        |                    |       |                |                   |                                 |                |      |       |              |      |
| <b>LCS Dup (BL40143-BSD1)</b>                     |        |                    |       |                |                   | Prepared & Analyzed: 12/02/2014 |                |      |       |              |      |
| 1,1,1,2-Tetrachloroethane                         | 10.8   |                    | ug/L  | 10.0           |                   | 108                             | 82-126         |      | 10.8  | 30           |      |
| 1,1,1-Trichloroethane                             | 10.1   |                    | "     | 10.0           |                   | 101                             | 78-136         |      | 3.31  | 30           |      |
| 1,1,2,2-Tetrachloroethane                         | 12.6   |                    | "     | 10.0           |                   | 126                             | 76-129         |      | 13.2  | 30           |      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.1   |                    | "     | 10.0           |                   | 101                             | 54-165         |      | 7.05  | 30           |      |
| 1,1,2-Trichloroethane                             | 11.3   |                    | "     | 10.0           |                   | 113                             | 82-123         |      | 8.48  | 30           |      |
| 1,1-Dichloroethane                                | 9.24   |                    | "     | 10.0           |                   | 92.4                            | 82-129         |      | 4.55  | 30           |      |
| 1,1-Dichloroethylene                              | 10.2   |                    | "     | 10.0           |                   | 102                             | 68-138         |      | 5.74  | 30           |      |
| 1,1-Dichloropropylene                             | 9.92   |                    | "     | 10.0           |                   | 99.2                            | 83-133         |      | 9.17  | 30           |      |
| 1,2,3-Trichlorobenzene                            | 11.1   |                    | "     | 10.0           |                   | 111                             | 76-136         |      | 4.24  | 30           |      |
| 1,2,3-Trichloropropane                            | 9.75   |                    | "     | 10.0           |                   | 97.5                            | 77-128         |      | 6.68  | 30           |      |
| 1,2,4-Trichlorobenzene                            | 11.1   |                    | "     | 10.0           |                   | 111                             | 76-137         |      | 1.82  | 30           |      |
| 1,2,4-Trimethylbenzene                            | 10.8   |                    | "     | 10.0           |                   | 108                             | 82-132         |      | 8.47  | 30           |      |
| 1,2-Dibromo-3-chloropropane                       | 10.9   |                    | "     | 10.0           |                   | 109                             | 45-147         |      | 5.76  | 30           |      |
| 1,2-Dibromoethane                                 | 10.7   |                    | "     | 10.0           |                   | 107                             | 83-124         |      | 7.98  | 30           |      |
| 1,2-Dichlorobenzene                               | 10.5   |                    | "     | 10.0           |                   | 105                             | 79-123         |      | 1.42  | 30           |      |
| 1,2-Dichloroethane                                | 10.5   |                    | "     | 10.0           |                   | 105                             | 73-132         |      | 2.59  | 30           |      |
| 1,2-Dichloropropane                               | 10.3   |                    | "     | 10.0           |                   | 103                             | 78-126         |      | 5.07  | 30           |      |
| 1,3,5-Trimethylbenzene                            | 10.6   |                    | "     | 10.0           |                   | 106                             | 80-131         |      | 6.24  | 30           |      |
| 1,3-Dichlorobenzene                               | 10.8   |                    | "     | 10.0           |                   | 108                             | 86-122         |      | 6.12  | 30           |      |
| 1,3-Dichloropropane                               | 10.4   |                    | "     | 10.0           |                   | 104                             | 81-125         |      | 6.02  | 30           |      |
| 1,4-Dichlorobenzene                               | 11.7   |                    | "     | 10.0           |                   | 117                             | 85-124         |      | 8.57  | 30           |      |
| 2,2-Dichloropropane                               | 9.34   |                    | "     | 10.0           |                   | 93.4                            | 56-150         |      | 2.27  | 30           |      |
| 2-Chlorotoluene                                   | 10.9   |                    | "     | 10.0           |                   | 109                             | 79-130         |      | 9.62  | 30           |      |
| 2-Hexanone                                        | 9.46   |                    | "     | 10.0           |                   | 94.6                            | 51-146         |      | 8.37  | 30           |      |
| 4-Chlorotoluene                                   | 10.9   |                    | "     | 10.0           |                   | 109                             | 79-128         |      | 12.6  | 30           |      |
| Acetone                                           | 7.84   |                    | "     | 10.0           |                   | 78.4                            | 14-150         |      | 0.768 | 30           |      |
| Benzene                                           | 10.6   |                    | "     | 10.0           |                   | 106                             | 85-126         |      | 2.48  | 30           |      |
| Bromobenzene                                      | 11.6   |                    | "     | 10.0           |                   | 116                             | 78-129         |      | 10.5  | 30           |      |
| Bromochloromethane                                | 10.2   |                    | "     | 10.0           |                   | 102                             | 77-128         |      | 1.49  | 30           |      |
| Bromodichloromethane                              | 10.2   |                    | "     | 10.0           |                   | 102                             | 79-128         |      | 3.69  | 30           |      |
| Bromoform                                         | 12.0   |                    | "     | 10.0           |                   | 120                             | 78-133         |      | 18.2  | 30           |      |
| Bromomethane                                      | 9.35   |                    | "     | 10.0           |                   | 93.5                            | 43-168         |      | 3.47  | 30           |      |
| Carbon tetrachloride                              | 10.4   |                    | "     | 10.0           |                   | 104                             | 77-141         |      | 8.13  | 30           |      |
| Chlorobenzene                                     | 10.5   |                    | "     | 10.0           |                   | 105                             | 88-120         |      | 3.98  | 30           |      |
| Chloroethane                                      | 9.41   |                    | "     | 10.0           |                   | 94.1                            | 65-136         |      | 4.45  | 30           |      |
| Chloroform                                        | 9.87   |                    | "     | 10.0           |                   | 98.7                            | 82-128         |      | 3.40  | 30           |      |
| Chloromethane                                     | 9.70   |                    | "     | 10.0           |                   | 97.0                            | 43-155         |      | 7.26  | 30           |      |
| cis-1,2-Dichloroethylene                          | 10.4   |                    | "     | 10.0           |                   | 104                             | 83-129         |      | 6.64  | 30           |      |
| cis-1,3-Dichloropropylene                         | 10.6   |                    | "     | 10.0           |                   | 106                             | 80-131         |      | 10.3  | 30           |      |
| Dibromochloromethane                              | 10.5   |                    | "     | 10.0           |                   | 105                             | 80-130         |      | 7.71  | 30           |      |
| Dibromomethane                                    | 10.2   |                    | "     | 10.0           |                   | 102                             | 72-134         |      | 3.19  | 30           |      |
| Dichlorodifluoromethane                           | 8.02   |                    | "     | 10.0           |                   | 80.2                            | 44-144         |      | 12.3  | 30           |      |
| Ethyl Benzene                                     | 11.0   |                    | "     | 10.0           |                   | 110                             | 80-131         |      | 16.6  | 30           |      |
| Hexachlorobutadiene                               | 11.3   |                    | "     | 10.0           |                   | 113                             | 67-146         |      | 12.8  | 30           |      |
| Isopropylbenzene                                  | 10.9   |                    | "     | 10.0           |                   | 109                             | 76-140         |      | 8.73  | 30           |      |
| Methyl tert-butyl ether (MTBE)                    | 9.99   |                    | "     | 10.0           |                   | 99.9                            | 76-135         |      | 1.61  | 30           |      |
| Methylene chloride                                | 13.1   |                    | "     | 10.0           |                   | 131                             | 55-137         |      | 5.72  | 30           |      |
| Naphthalene                                       | 12.8   |                    | "     | 10.0           |                   | 128                             | 70-147         |      | 8.33  | 30           |      |
| n-Butylbenzene                                    | 10.2   |                    | "     | 10.0           |                   | 102                             | 79-132         |      | 1.17  | 30           |      |
| n-Propylbenzene                                   | 10.8   |                    | "     | 10.0           |                   | 108                             | 78-133         |      | 3.86  | 30           |      |
| o-Xylene                                          | 10.5   |                    | "     | 10.0           |                   | 105                             | 78-130         |      | 11.3  | 30           |      |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BL40143 - EPA 5030B

##### LCS Dup (BL40143-BSD1)

Prepared & Analyzed: 12/02/2014

|                                         |             |  |          |             |  |             |               |  |      |    |  |
|-----------------------------------------|-------------|--|----------|-------------|--|-------------|---------------|--|------|----|--|
| p- & m- Xylenes                         | 20.2        |  | ug/L     | 20.0        |  | 101         | 77-133        |  | 7.38 | 30 |  |
| p-Isopropyltoluene                      | 10.8        |  | "        | 10.0        |  | 108         | 81-136        |  | 3.88 | 30 |  |
| sec-Butylbenzene                        | 11.6        |  | "        | 10.0        |  | 116         | 79-137        |  | 11.8 | 30 |  |
| Styrene                                 | 9.93        |  | "        | 10.0        |  | 99.3        | 67-132        |  | 8.29 | 30 |  |
| tert-Butylbenzene                       | 11.0        |  | "        | 10.0        |  | 110         | 77-138        |  | 7.29 | 30 |  |
| Tetrachloroethylene                     | 9.48        |  | "        | 10.0        |  | 94.8        | 82-131        |  | 2.02 | 30 |  |
| Toluene                                 | 11.0        |  | "        | 10.0        |  | 110         | 80-127        |  | 15.9 | 30 |  |
| trans-1,2-Dichloroethylene              | 10.3        |  | "        | 10.0        |  | 103         | 80-132        |  | 5.78 | 30 |  |
| trans-1,3-Dichloropropylene             | 9.61        |  | "        | 10.0        |  | 96.1        | 78-131        |  | 7.00 | 30 |  |
| Trichloroethylene                       | 10.3        |  | "        | 10.0        |  | 103         | 82-128        |  | 3.37 | 30 |  |
| Trichlorofluoromethane                  | 10.1        |  | "        | 10.0        |  | 101         | 67-139        |  | 2.81 | 30 |  |
| Vinyl Chloride                          | 9.24        |  | "        | 10.0        |  | 92.4        | 58-145        |  | 3.19 | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>10.2</i> |  | <i>"</i> | <i>10.0</i> |  | <i>102</i>  | <i>69-130</i> |  |      |    |  |
| <i>Surrogate: p-Bromofluorobenzene</i>  | <i>10.9</i> |  | <i>"</i> | <i>10.0</i> |  | <i>109</i>  | <i>79-122</i> |  |      |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>9.60</i> |  | <i>"</i> | <i>10.0</i> |  | <i>96.0</i> | <i>81-117</i> |  |      |    |  |



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

| Analyte                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC                                                                                       | %REC<br>Limits | Flag | RPD  | RPD<br>Limit | Flag |
|-----------------------------------|--------|--------------------|-------|----------------|-------------------|--------------------------------------------------------------------------------------------|----------------|------|------|--------------|------|
| <b>Batch BL40127 - EPA 3010A</b>  |        |                    |       |                |                   |                                                                                            |                |      |      |              |      |
| <b>Blank (BL40127-BLK1)</b>       |        |                    |       |                |                   | Prepared: 12/02/2014 Analyzed: 12/03/2014                                                  |                |      |      |              |      |
| Iron - Dissolved                  | ND     | 0.0200             | mg/L  |                |                   |                                                                                            |                |      |      |              |      |
| <b>Duplicate (BL40127-DUP1)</b>   |        |                    |       |                |                   | *Source sample: 14K0896-01 (WQ112414:1110NP2-10) Prepared: 12/02/2014 Analyzed: 12/03/2014 |                |      |      |              |      |
| Iron - Dissolved                  | 0.0969 | 0.0200             | mg/L  |                | 0.0935            |                                                                                            |                |      | 3.56 | 20           |      |
| <b>Matrix Spike (BL40127-MS1)</b> |        |                    |       |                |                   | *Source sample: 14K0896-01 (WQ112414:1110NP2-10) Prepared: 12/02/2014 Analyzed: 12/03/2014 |                |      |      |              |      |
| Iron - Dissolved                  | 1.19   | 0.0200             | mg/L  | 1.00           | 0.0935            | 109                                                                                        | 75-125         |      |      |              |      |
| <b>Reference (BL40127-SRM1)</b>   |        |                    |       |                |                   | Prepared: 12/02/2014 Analyzed: 12/03/2014                                                  |                |      |      |              |      |
| Iron - Dissolved                  | 2.76   | 0.0200             | mg/L  | 2.58           |                   | 107                                                                                        | 84.9-115       |      |      |              |      |
| <b>Batch BL40128 - EPA 3010A</b>  |        |                    |       |                |                   |                                                                                            |                |      |      |              |      |
| <b>Blank (BL40128-BLK1)</b>       |        |                    |       |                |                   | Prepared: 12/02/2014 Analyzed: 12/03/2014                                                  |                |      |      |              |      |
| Iron                              | ND     | 0.0200             | mg/L  |                |                   |                                                                                            |                |      |      |              |      |
| <b>Reference (BL40128-SRM1)</b>   |        |                    |       |                |                   | Prepared: 12/02/2014 Analyzed: 12/03/2014                                                  |                |      |      |              |      |
| Iron                              | 2.75   | 0.0200             | mg/L  | 2.58           |                   | 106                                                                                        | 84.9-115       |      |      |              |      |



## Miscellaneous Physical Parameters - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41211 - % Solids Prep

##### Blank (BK41211-BLK1)

Prepared: 11/25/2014 Analyzed: 11/26/2014

Total Dissolved Solids ND 10.0 mg/L

##### Duplicate (BK41211-DUP1)

\*Source sample: 14K0896-01 (WQ112414:1110NP2-10)

Prepared: 11/25/2014 Analyzed: 11/26/2014

Total Dissolved Solids 164 10.0 mg/L 162 1.23 15





### Volatile Analysis Sample Containers

| Lab ID     | Client Sample ID    | Volatile Sample Container                     |
|------------|---------------------|-----------------------------------------------|
| 14K0896-01 | WQ112414:1110NP2-10 | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0897-01 | WQ112414:1100NP2-6  | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0897-02 | WQ112414:1105NP2-7  | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |



## Notes and Definitions

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J           | Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.                                                                                                                                                                                                                                                                      |
| Cal-E       | The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20% AND correlation coefficient <0.990 for quadratic fit).                                                                                                                                                                                                                                                                |
| <hr/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                               |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                      |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                 |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                     |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                       |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                                |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                 |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                              |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.           |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.         |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

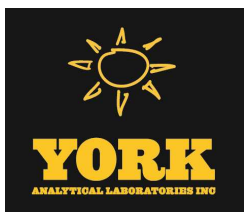
Page 1 of 1

York Project No.

[illegible]



**APPENDIX II**  
**NOVEMBER 2014 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T AND FP&T RECOVERY WELLS**



# Technical Report

prepared for:

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204

Shelton CT, 06484

**Attention: Tunde Komuves-Sandor**

Report Date: 11/21/2014

**Client Project ID: Rowe Industries**

York Project (SDG) No.: 14K0569

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/21/2014  
Client Project ID: Rowe Industries  
York Project (SDG) No.: 14K0569

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 14, 2014 and listed below. The project was identified as your project: **Rowe Industries**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|---------------|-----------------------|----------------------|
| 14K0569-01            | RW-2                    | Water         | 11/13/2014            | 11/14/2014           |
| 14K0569-02            | FRW-1                   | Water         | 11/13/2014            | 11/14/2014           |
| 14K0569-03            | FRW-2                   | Water         | 11/13/2014            | 11/14/2014           |
| 14K0569-04            | FRW-3                   | Water         | 11/13/2014            | 11/14/2014           |
| 14K0569-05            | FRW-4                   | Water         | 11/13/2014            | 11/14/2014           |

## **General Notes for York Project (SDG) No.: 14K0569**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 11/21/2014







## Sample Information

**Client Sample ID:** RW-2

**York Sample ID:** 14K0569-01

York Project (SDG) No.

14K0569

Client Project ID

Rowe Industries

Matrix

Water

Collection Date/Time

November 13, 2014 9:50 am

Date Received

11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result      | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|-------------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 71-55-6  | <b>1,1,1-Trichloroethane</b>                         | <b>0.23</b> | J    | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 67-64-1  | Acetone                                              | ND          |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 71-43-2  | Benzene                                              | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 108-86-1 | Bromobenzene                                         | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-25-2  | Bromoform                                            | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 74-83-9  | Bromomethane                                         | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |



## Sample Information

**Client Sample ID:** RW-2

**York Sample ID:** 14K0569-01

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 9:50 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag | Units                   | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|------|-------------------------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 75-00-3                     | Chloroethane                     | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 67-66-3                     | Chloroform                       | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 74-87-3                     | Chloromethane                    | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 156-59-2                    | cis-1,2-Dichloroethylene         | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 10061-01-5                  | cis-1,3-Dichloropropylene        | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 124-48-1                    | Dibromochloromethane             | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 74-95-3                     | Dibromomethane                   | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-71-8                     | Dichlorodifluoromethane          | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 100-41-4                    | Ethyl Benzene                    | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 87-68-3                     | Hexachlorobutadiene              | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 98-82-8                     | Isopropylbenzene                 | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 1634-04-4                   | Methyl tert-butyl ether (MTBE)   | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-09-2                     | Methylene chloride               | ND            |      | ug/L                    | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 91-20-3                     | Naphthalene                      | ND            |      | ug/L                    | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 104-51-8                    | n-Butylbenzene                   | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |      | ug/L                    | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 100-42-5                    | Styrene                          | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 127-18-4                    | <b>Tetrachloroethylene</b>       | <b>0.45</b>   | J    | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 108-88-3                    | Toluene                          | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 79-01-6                     | <b>Trichloroethylene</b>         | <b>0.40</b>   | J    | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |      | ug/L                    | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |      | ug/L                    | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 09:47      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> |      | <b>Acceptance Range</b> |                        |      |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 145 %         | S-08 | 69-130                  |                        |      |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 101 %         |      | 79-122                  |                        |      |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 94.7 %        |      | 81-117                  |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** FRW-1

**York Sample ID:** 14K0569-02

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:00 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-00-3  | Chloroethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |



## Sample Information

**Client Sample ID:** FRW-1

**York Sample ID:** 14K0569-02

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:00 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.              | Parameter                        | Result     | Flag             | Units  | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------------------|----------------------------------|------------|------------------|--------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 67-66-3              | Chloroform                       | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 74-87-3              | Chloromethane                    | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 156-59-2             | <b>cis-1,2-Dichloroethylene</b>  | <b>2.1</b> |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 10061-01-5           | cis-1,3-Dichloropropylene        | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 124-48-1             | Dibromochloromethane             | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 74-95-3              | Dibromomethane                   | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-71-8              | Dichlorodifluoromethane          | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 100-41-4             | Ethyl Benzene                    | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 87-68-3              | Hexachlorobutadiene              | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 98-82-8              | Isopropylbenzene                 | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 1634-04-4            | Methyl tert-butyl ether (MTBE)   | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-09-2              | Methylene chloride               | ND         |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 91-20-3              | Naphthalene                      | ND         |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 104-51-8             | n-Butylbenzene                   | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 103-65-1             | n-Propylbenzene                  | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 95-47-6              | o-Xylene                         | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 179601-23-1          | p- & m- Xylenes                  | ND         |                  | ug/L   | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 99-87-6              | p-Isopropyltoluene               | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 135-98-8             | sec-Butylbenzene                 | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 100-42-5             | Styrene                          | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 98-06-6              | tert-Butylbenzene                | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 127-18-4             | <b>Tetrachloroethylene</b>       | <b>17</b>  |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 108-88-3             | Toluene                          | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 156-60-5             | trans-1,2-Dichloroethylene       | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 10061-02-6           | trans-1,3-Dichloropropylene      | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 79-01-6              | <b>Trichloroethylene</b>         | <b>3.2</b> |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-69-4              | Trichlorofluoromethane           | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 75-01-4              | Vinyl Chloride                   | ND         |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| 1330-20-7            | * Xylenes, Total                 | ND         |                  | ug/L   | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:20      | SS      |
| Surrogate Recoveries |                                  | Result     | Acceptance Range |        |                        |      |          |                  |                       |                       |         |
| 17060-07-0           | Surrogate: 1,2-Dichloroethane-d4 | 131 %      | S-08             | 69-130 |                        |      |          |                  |                       |                       |         |
| 460-00-4             | Surrogate: p-Bromofluorobenzene  | 97.4 %     |                  | 79-122 |                        |      |          |                  |                       |                       |         |
| 2037-26-5            | Surrogate: Toluene-d8            | 91.5 %     |                  | 81-117 |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** FRW-2

**York Sample ID:** 14K0569-03

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:05 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-00-3  | Chloroethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |



## Sample Information

**Client Sample ID:** FRW-2

**York Sample ID:** 14K0569-03

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:05 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.              | Parameter                        | Result      | Flag             | Units  | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------------------|----------------------------------|-------------|------------------|--------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 67-66-3              | Chloroform                       | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 74-87-3              | Chloromethane                    | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 156-59-2             | <b>cis-1,2-Dichloroethylene</b>  | <b>0.94</b> |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 10061-01-5           | cis-1,3-Dichloropropylene        | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 124-48-1             | Dibromochloromethane             | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 74-95-3              | Dibromomethane                   | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-71-8              | Dichlorodifluoromethane          | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 100-41-4             | Ethyl Benzene                    | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 87-68-3              | Hexachlorobutadiene              | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 98-82-8              | Isopropylbenzene                 | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 1634-04-4            | Methyl tert-butyl ether (MTBE)   | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-09-2              | Methylene chloride               | ND          |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 91-20-3              | Naphthalene                      | ND          |                  | ug/L   | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 104-51-8             | n-Butylbenzene                   | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 103-65-1             | n-Propylbenzene                  | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 95-47-6              | o-Xylene                         | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 179601-23-1          | p- & m- Xylenes                  | ND          |                  | ug/L   | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 99-87-6              | p-Isopropyltoluene               | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 135-98-8             | sec-Butylbenzene                 | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 100-42-5             | Styrene                          | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 98-06-6              | tert-Butylbenzene                | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 127-18-4             | <b>Tetrachloroethylene</b>       | <b>25</b>   |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 108-88-3             | Toluene                          | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 156-60-5             | trans-1,2-Dichloroethylene       | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 10061-02-6           | trans-1,3-Dichloropropylene      | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 79-01-6              | <b>Trichloroethylene</b>         | <b>3.8</b>  |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-69-4              | Trichlorofluoromethane           | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 75-01-4              | Vinyl Chloride                   | ND          |                  | ug/L   | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| 1330-20-7            | * Xylenes, Total                 | ND          |                  | ug/L   | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 10:53      | SS      |
| Surrogate Recoveries |                                  | Result      | Acceptance Range |        |                        |      |          |                  |                       |                       |         |
| 17060-07-0           | Surrogate: 1,2-Dichloroethane-d4 | 139 %       | S-08             | 69-130 |                        |      |          |                  |                       |                       |         |
| 460-00-4             | Surrogate: p-Bromofluorobenzene  | 108 %       |                  | 79-122 |                        |      |          |                  |                       |                       |         |
| 2037-26-5            | Surrogate: Toluene-d8            | 92.9 %      |                  | 81-117 |                        |      |          |                  |                       |                       |         |



## Sample Information

**Client Sample ID:** FRW-3

**York Sample ID:** 14K0569-04

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:10 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-00-3  | Chloroethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |





## Sample Information

**Client Sample ID:** FRW-3

**York Sample ID:** 14K0569-04

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:10 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.     | Parameter                       | Result      | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-------------|---------------------------------|-------------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 67-66-3     | Chloroform                      | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 74-87-3     | Chloromethane                   | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 156-59-2    | <b>cis-1,2-Dichloroethylene</b> | <b>2.7</b>  |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 10061-01-5  | cis-1,3-Dichloropropylene       | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 124-48-1    | Dibromochloromethane            | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 74-95-3     | Dibromomethane                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-71-8     | Dichlorodifluoromethane         | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 100-41-4    | Ethyl Benzene                   | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 87-68-3     | Hexachlorobutadiene             | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 98-82-8     | <b>Isopropylbenzene</b>         | <b>0.59</b> |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 1634-04-4   | Methyl tert-butyl ether (MTBE)  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-09-2     | Methylene chloride              | ND          |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 91-20-3     | Naphthalene                     | ND          |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 104-51-8    | n-Butylbenzene                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 103-65-1    | n-Propylbenzene                 | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 95-47-6     | o-Xylene                        | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 179601-23-1 | p- & m- Xylenes                 | ND          |      | ug/L  | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 99-87-6     | p-Isopropyltoluene              | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 135-98-8    | sec-Butylbenzene                | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 100-42-5    | Styrene                         | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 98-06-6     | tert-Butylbenzene               | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 127-18-4    | <b>Tetrachloroethylene</b>      | <b>9.7</b>  |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 108-88-3    | Toluene                         | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 156-60-5    | trans-1,2-Dichloroethylene      | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 10061-02-6  | trans-1,3-Dichloropropylene     | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 79-01-6     | <b>Trichloroethylene</b>        | <b>2.7</b>  |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-69-4     | Trichlorofluoromethane          | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 75-01-4     | Vinyl Chloride                  | ND          |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |
| 1330-20-7   | * Xylenes, Total                | ND          |      | ug/L  | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:26      | SS      |

| Surrogate Recoveries |                                  | Result | Acceptance Range |
|----------------------|----------------------------------|--------|------------------|
| 17060-07-0           | Surrogate: 1,2-Dichloroethane-d4 | 141 %  | 69-130           |
| 460-00-4             | Surrogate: p-Bromofluorobenzene  | 111 %  | 79-122           |
| 2037-26-5            | Surrogate: Toluene-d8            | 98.2 % | 81-117           |





## Sample Information

**Client Sample ID:** FRW-4

**York Sample ID:** 14K0569-05

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:15 am

Date Received  
11/14/2014

### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.  | Parameter                                            | Result | Flag | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|------------------------------------------------------|--------|------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 71-55-6  | 1,1,1-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane<br>(Freon 113) | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 79-00-5  | 1,1,2-Trichloroethane                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-34-3  | 1,1-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-35-4  | 1,1-Dichloroethylene                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 563-58-6 | 1,1-Dichloropropylene                                | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 87-61-6  | 1,2,3-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 96-18-4  | 1,2,3-Trichloropropane                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 120-82-1 | 1,2,4-Trichlorobenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 95-63-6  | 1,2,4-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 96-12-8  | 1,2-Dibromo-3-chloropropane                          | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 106-93-4 | 1,2-Dibromoethane                                    | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 95-50-1  | 1,2-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 107-06-2 | 1,2-Dichloroethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 78-87-5  | 1,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                               | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 541-73-1 | 1,3-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 142-28-9 | 1,3-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 106-46-7 | 1,4-Dichlorobenzene                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 594-20-7 | 2,2-Dichloropropane                                  | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 95-49-8  | 2-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 591-78-6 | 2-Hexanone                                           | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 106-43-4 | 4-Chlorotoluene                                      | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 67-64-1  | Acetone                                              | ND     |      | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 71-43-2  | Benzene                                              | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 108-86-1 | Bromobenzene                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 74-97-5  | Bromochloromethane                                   | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-27-4  | Bromodichloromethane                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-25-2  | Bromoform                                            | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 74-83-9  | Bromomethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 56-23-5  | Carbon tetrachloride                                 | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 108-90-7 | Chlorobenzene                                        | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-00-3  | Chloroethane                                         | ND     |      | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |



## Sample Information

**Client Sample ID:** FRW-4

**York Sample ID:** 14K0569-05

York Project (SDG) No.  
14K0569

Client Project ID  
Rowe Industries

Matrix  
Water

Collection Date/Time  
November 13, 2014 10:15 am

Date Received  
11/14/2014

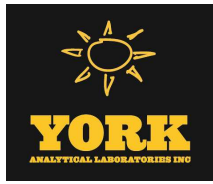
### Volatile Organics, 8260 List - Low Level

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

| CAS No.                     | Parameter                        | Result        | Flag                    | Units | Reported to<br>LOD/MDL | LOQ  | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------|---------------|-------------------------|-------|------------------------|------|----------|------------------|-----------------------|-----------------------|---------|
| 67-66-3                     | Chloroform                       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 74-87-3                     | Chloromethane                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 156-59-2                    | <b>cis-1,2-Dichloroethylene</b>  | <b>1.4</b>    |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 10061-01-5                  | cis-1,3-Dichloropropylene        | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 124-48-1                    | Dibromochloromethane             | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 74-95-3                     | Dibromomethane                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-71-8                     | Dichlorodifluoromethane          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 100-41-4                    | Ethyl Benzene                    | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 87-68-3                     | Hexachlorobutadiene              | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 98-82-8                     | Isopropylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 1634-04-4                   | Methyl tert-butyl ether (MTBE)   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-09-2                     | Methylene chloride               | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 91-20-3                     | Naphthalene                      | ND            |                         | ug/L  | 1.0                    | 2.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 104-51-8                    | n-Butylbenzene                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 103-65-1                    | n-Propylbenzene                  | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 95-47-6                     | o-Xylene                         | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 179601-23-1                 | p- & m- Xylenes                  | ND            |                         | ug/L  | 0.50                   | 1.0  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 99-87-6                     | p-Isopropyltoluene               | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 135-98-8                    | sec-Butylbenzene                 | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 100-42-5                    | Styrene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 98-06-6                     | tert-Butylbenzene                | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 127-18-4                    | <b>Tetrachloroethylene</b>       | <b>3.8</b>    |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 108-88-3                    | Toluene                          | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 156-60-5                    | trans-1,2-Dichloroethylene       | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 10061-02-6                  | trans-1,3-Dichloropropylene      | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 79-01-6                     | <b>Trichloroethylene</b>         | <b>0.97</b>   |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-69-4                     | Trichlorofluoromethane           | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 75-01-4                     | Vinyl Chloride                   | ND            |                         | ug/L  | 0.20                   | 0.50 | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| 1330-20-7                   | * Xylenes, Total                 | ND            |                         | ug/L  | 0.60                   | 1.5  | 1        | EPA 8260C        | 11/20/2014 17:14      | 11/21/2014 11:58      | SS      |
| <b>Surrogate Recoveries</b> |                                  | <b>Result</b> | <b>Acceptance Range</b> |       |                        |      |          |                  |                       |                       |         |
| 17060-07-0                  | Surrogate: 1,2-Dichloroethane-d4 | 129 %         | 69-130                  |       |                        |      |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: p-Bromofluorobenzene  | 115 %         | 79-122                  |       |                        |      |          |                  |                       |                       |         |
| 2037-26-5                   | Surrogate: Toluene-d8            | 95.3 %        | 81-117                  |       |                        |      |          |                  |                       |                       |         |



## Analytical Batch Summary

**Batch ID:** BK41021

**Preparation Method:** EPA 5030B

**Prepared By:** BGS

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 14K0569-01     | RW-2             | 11/20/14         |
| 14K0569-02     | FRW-1            | 11/20/14         |
| 14K0569-03     | FRW-2            | 11/20/14         |
| 14K0569-04     | FRW-3            | 11/20/14         |
| 14K0569-05     | FRW-4            | 11/20/14         |
| BK41021-BLK1   | Blank            | 11/20/14         |
| BK41021-BS1    | LCS              | 11/20/14         |
| BK41021-BSD1   | LCS Dup          | 11/20/14         |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

#### Blank (BK41021-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |      |      |
|---------------------------------------------------|------|------|------|
| 1,1,1,2-Tetrachloroethane                         | ND   | 0.50 | ug/L |
| 1,1,1-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1,2,2-Tetrachloroethane                         | ND   | 0.50 | "    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND   | 0.50 | "    |
| 1,1,2-Trichloroethane                             | ND   | 0.50 | "    |
| 1,1-Dichloroethane                                | ND   | 0.50 | "    |
| 1,1-Dichloroethylene                              | ND   | 0.50 | "    |
| 1,1-Dichloropropylene                             | ND   | 0.50 | "    |
| 1,2,3-Trichlorobenzene                            | 0.49 | 0.50 | "    |
| 1,2,3-Trichloropropane                            | ND   | 0.50 | "    |
| 1,2,4-Trichlorobenzene                            | 0.37 | 0.50 | "    |
| 1,2,4-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,2-Dibromo-3-chloropropane                       | ND   | 0.50 | "    |
| 1,2-Dibromoethane                                 | ND   | 0.50 | "    |
| 1,2-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,2-Dichloroethane                                | ND   | 0.50 | "    |
| 1,2-Dichloropropane                               | ND   | 0.50 | "    |
| 1,3,5-Trimethylbenzene                            | ND   | 0.50 | "    |
| 1,3-Dichlorobenzene                               | ND   | 0.50 | "    |
| 1,3-Dichloropropane                               | ND   | 0.50 | "    |
| 1,4-Dichlorobenzene                               | ND   | 0.50 | "    |
| 2,2-Dichloropropane                               | ND   | 0.50 | "    |
| 2-Chlorotoluene                                   | ND   | 0.50 | "    |
| 2-Hexanone                                        | ND   | 0.50 | "    |
| 4-Chlorotoluene                                   | ND   | 0.50 | "    |
| Acetone                                           | ND   | 2.0  | "    |
| Benzene                                           | ND   | 0.50 | "    |
| Bromobenzene                                      | ND   | 0.50 | "    |
| Bromochloromethane                                | ND   | 0.50 | "    |
| Bromodichloromethane                              | ND   | 0.50 | "    |
| Bromoform                                         | ND   | 0.50 | "    |
| Bromomethane                                      | ND   | 0.50 | "    |
| Carbon tetrachloride                              | ND   | 0.50 | "    |
| Chlorobenzene                                     | ND   | 0.50 | "    |
| Chloroethane                                      | ND   | 0.50 | "    |
| Chloroform                                        | ND   | 0.50 | "    |
| Chloromethane                                     | ND   | 0.50 | "    |
| cis-1,2-Dichloroethylene                          | ND   | 0.50 | "    |
| cis-1,3-Dichloropropylene                         | ND   | 0.50 | "    |
| Dibromochloromethane                              | ND   | 0.50 | "    |
| Dibromomethane                                    | ND   | 0.50 | "    |
| Dichlorodifluoromethane                           | ND   | 0.50 | "    |
| Ethyl Benzene                                     | ND   | 0.50 | "    |
| Hexachlorobutadiene                               | 0.62 | 0.50 | "    |
| Isopropylbenzene                                  | ND   | 0.50 | "    |
| Methyl tert-butyl ether (MTBE)                    | ND   | 0.50 | "    |
| Methylene chloride                                | ND   | 2.0  | "    |
| Naphthalene                                       | ND   | 2.0  | "    |
| n-Butylbenzene                                    | ND   | 0.50 | "    |
| n-Propylbenzene                                   | 0.20 | 0.50 | "    |
| o-Xylene                                          | ND   | 0.50 | "    |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

##### Blank (BK41021-BLK1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                             |      |      |      |
|-----------------------------|------|------|------|
| p- & m- Xylenes             | ND   | 1.0  | ug/L |
| p-Isopropyltoluene          | 0.22 | 0.50 | "    |
| sec-Butylbenzene            | 0.23 | 0.50 | "    |
| Styrene                     | ND   | 0.50 | "    |
| tert-Butylbenzene           | 0.25 | 0.50 | "    |
| Tetrachloroethylene         | ND   | 0.50 | "    |
| Toluene                     | ND   | 0.50 | "    |
| trans-1,2-Dichloroethylene  | ND   | 0.50 | "    |
| trans-1,3-Dichloropropylene | ND   | 0.50 | "    |
| Trichloroethylene           | ND   | 0.50 | "    |
| Trichlorofluoromethane      | ND   | 0.50 | "    |
| Vinyl Chloride              | ND   | 0.50 | "    |
| Xylenes, Total              | ND   | 1.5  | "    |

*Surrogate: 1,2-Dichloroethane-d4*

10.2

"

10.0

102

69-130

*Surrogate: p-Bromofluorobenzene*

9.67

"

10.0

96.7

79-122

*Surrogate: Toluene-d8*

9.76

"

10.0

97.6

81-117

##### LCS (BK41021-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                                   |      |  |      |      |      |        |
|---------------------------------------------------|------|--|------|------|------|--------|
| 1,1,1,2-Tetrachloroethane                         | 10.6 |  | ug/L | 10.0 | 106  | 82-126 |
| 1,1,1-Trichloroethane                             | 11.8 |  | "    | 10.0 | 118  | 78-136 |
| 1,1,2,2-Tetrachloroethane                         | 9.27 |  | "    | 10.0 | 92.7 | 76-129 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 7.85 |  | "    | 10.0 | 78.5 | 54-165 |
| 1,1,2-Trichloroethane                             | 9.63 |  | "    | 10.0 | 96.3 | 82-123 |
| 1,1-Dichloroethane                                | 9.79 |  | "    | 10.0 | 97.9 | 82-129 |
| 1,1-Dichloroethylene                              | 9.92 |  | "    | 10.0 | 99.2 | 68-138 |
| 1,1-Dichloropropylene                             | 10.1 |  | "    | 10.0 | 101  | 83-133 |
| 1,2,3-Trichlorobenzene                            | 9.59 |  | "    | 10.0 | 95.9 | 76-136 |
| 1,2,3-Trichloropropane                            | 10.5 |  | "    | 10.0 | 105  | 77-128 |
| 1,2,4-Trichlorobenzene                            | 9.22 |  | "    | 10.0 | 92.2 | 76-137 |
| 1,2,4-Trimethylbenzene                            | 9.17 |  | "    | 10.0 | 91.7 | 82-132 |
| 1,2-Dibromo-3-chloropropane                       | 13.4 |  | "    | 10.0 | 134  | 45-147 |
| 1,2-Dibromoethane                                 | 10.2 |  | "    | 10.0 | 102  | 83-124 |
| 1,2-Dichlorobenzene                               | 9.53 |  | "    | 10.0 | 95.3 | 79-123 |
| 1,2-Dichloroethane                                | 13.0 |  | "    | 10.0 | 130  | 73-132 |
| 1,2-Dichloropropane                               | 9.48 |  | "    | 10.0 | 94.8 | 78-126 |
| 1,3,5-Trimethylbenzene                            | 8.71 |  | "    | 10.0 | 87.1 | 80-131 |
| 1,3-Dichlorobenzene                               | 8.64 |  | "    | 10.0 | 86.4 | 86-122 |
| 1,3-Dichloropropane                               | 9.99 |  | "    | 10.0 | 99.9 | 81-125 |
| 1,4-Dichlorobenzene                               | 9.44 |  | "    | 10.0 | 94.4 | 85-124 |
| 2,2-Dichloropropane                               | 7.32 |  | "    | 10.0 | 73.2 | 56-150 |
| 2-Chlorotoluene                                   | 9.09 |  | "    | 10.0 | 90.9 | 79-130 |
| 2-Hexanone                                        | 11.7 |  | "    | 10.0 | 117  | 51-146 |
| 4-Chlorotoluene                                   | 9.29 |  | "    | 10.0 | 92.9 | 79-128 |
| Acetone                                           | 14.7 |  | "    | 10.0 | 147  | 14-150 |
| Benzene                                           | 10.5 |  | "    | 10.0 | 105  | 85-126 |
| Bromobenzene                                      | 8.95 |  | "    | 10.0 | 89.5 | 78-129 |
| Bromochloromethane                                | 11.8 |  | "    | 10.0 | 118  | 77-128 |
| Bromodichloromethane                              | 11.6 |  | "    | 10.0 | 116  | 79-128 |
| Bromoform                                         | 11.1 |  | "    | 10.0 | 111  | 78-133 |
| Bromomethane                                      | 9.59 |  | "    | 10.0 | 95.9 | 43-168 |
| Carbon tetrachloride                              | 11.3 |  | "    | 10.0 | 113  | 77-141 |
| Chlorobenzene                                     | 9.67 |  | "    | 10.0 | 96.7 | 88-120 |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

#### LCS (BK41021-BS1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                  |      |  |      |      |  |      |        |  |  |  |  |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|--|
| Chloroethane                     | 8.49 |  | ug/L | 10.0 |  | 84.9 | 65-136 |  |  |  |  |
| Chloroform                       | 12.3 |  | "    | 10.0 |  | 123  | 82-128 |  |  |  |  |
| Chloromethane                    | 9.82 |  | "    | 10.0 |  | 98.2 | 43-155 |  |  |  |  |
| cis-1,2-Dichloroethylene         | 12.0 |  | "    | 10.0 |  | 120  | 83-129 |  |  |  |  |
| cis-1,3-Dichloropropylene        | 9.24 |  | "    | 10.0 |  | 92.4 | 80-131 |  |  |  |  |
| Dibromochloromethane             | 11.5 |  | "    | 10.0 |  | 115  | 80-130 |  |  |  |  |
| Dibromomethane                   | 12.0 |  | "    | 10.0 |  | 120  | 72-134 |  |  |  |  |
| Dichlorodifluoromethane          | 8.47 |  | "    | 10.0 |  | 84.7 | 44-144 |  |  |  |  |
| Ethyl Benzene                    | 9.06 |  | "    | 10.0 |  | 90.6 | 80-131 |  |  |  |  |
| Hexachlorobutadiene              | 8.62 |  | "    | 10.0 |  | 86.2 | 67-146 |  |  |  |  |
| Isopropylbenzene                 | 8.35 |  | "    | 10.0 |  | 83.5 | 76-140 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | 9.87 |  | "    | 10.0 |  | 98.7 | 76-135 |  |  |  |  |
| Methylene chloride               | 10.4 |  | "    | 10.0 |  | 104  | 55-137 |  |  |  |  |
| Naphthalene                      | 9.53 |  | "    | 10.0 |  | 95.3 | 70-147 |  |  |  |  |
| n-Butylbenzene                   | 8.43 |  | "    | 10.0 |  | 84.3 | 79-132 |  |  |  |  |
| n-Propylbenzene                  | 8.03 |  | "    | 10.0 |  | 80.3 | 78-133 |  |  |  |  |
| o-Xylene                         | 10.1 |  | "    | 10.0 |  | 101  | 78-130 |  |  |  |  |
| p- & m- Xylenes                  | 18.3 |  | "    | 20.0 |  | 91.6 | 77-133 |  |  |  |  |
| p-Isopropyltoluene               | 8.57 |  | "    | 10.0 |  | 85.7 | 81-136 |  |  |  |  |
| sec-Butylbenzene                 | 7.93 |  | "    | 10.0 |  | 79.3 | 79-137 |  |  |  |  |
| Styrene                          | 9.82 |  | "    | 10.0 |  | 98.2 | 67-132 |  |  |  |  |
| tert-Butylbenzene                | 8.52 |  | "    | 10.0 |  | 85.2 | 77-138 |  |  |  |  |
| Tetrachloroethylene              | 8.69 |  | "    | 10.0 |  | 86.9 | 82-131 |  |  |  |  |
| Toluene                          | 8.74 |  | "    | 10.0 |  | 87.4 | 80-127 |  |  |  |  |
| trans-1,2-Dichloroethylene       | 9.86 |  | "    | 10.0 |  | 98.6 | 80-132 |  |  |  |  |
| trans-1,3-Dichloropropylene      | 9.87 |  | "    | 10.0 |  | 98.7 | 78-131 |  |  |  |  |
| Trichloroethylene                | 10.1 |  | "    | 10.0 |  | 101  | 82-128 |  |  |  |  |
| Trichlorofluoromethane           | 10.3 |  | "    | 10.0 |  | 103  | 67-139 |  |  |  |  |
| Vinyl Chloride                   | 8.28 |  | "    | 10.0 |  | 82.8 | 58-145 |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 13.6 |  | "    | 10.0 |  | 136  | 69-130 |  |  |  |  |
| Surrogate: p-Bromofluorobenzene  | 10.4 |  | "    | 10.0 |  | 104  | 79-122 |  |  |  |  |
| Surrogate: Toluene-d8            | 9.61 |  | "    | 10.0 |  | 96.1 | 81-117 |  |  |  |  |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte                                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC                                      | %REC<br>Limits | Flag     | RPD   | RPD<br>Limit | Flag     |
|---------------------------------------------------|--------|--------------------|-------|----------------|-------------------|-------------------------------------------|----------------|----------|-------|--------------|----------|
| <b>Batch BK41021 - EPA 5030B</b>                  |        |                    |       |                |                   |                                           |                |          |       |              |          |
| <b>LCS Dup (BK41021-BSD1)</b>                     |        |                    |       |                |                   | Prepared: 11/20/2014 Analyzed: 11/21/2014 |                |          |       |              |          |
| 1,1,1,2-Tetrachloroethane                         | 11.3   |                    | ug/L  | 10.0           |                   | 113                                       | 82-126         |          | 6.04  | 30           |          |
| 1,1,1-Trichloroethane                             | 9.98   |                    | "     | 10.0           |                   | 99.8                                      | 78-136         |          | 16.6  | 30           |          |
| 1,1,2,2-Tetrachloroethane                         | 9.26   |                    | "     | 10.0           |                   | 92.6                                      | 76-129         |          | 0.108 | 30           |          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 6.98   |                    | "     | 10.0           |                   | 69.8                                      | 54-165         |          | 11.7  | 30           |          |
| 1,1,2-Trichloroethane                             | 9.33   |                    | "     | 10.0           |                   | 93.3                                      | 82-123         |          | 3.16  | 30           |          |
| 1,1-Dichloroethane                                | 8.97   |                    | "     | 10.0           |                   | 89.7                                      | 82-129         |          | 8.74  | 30           |          |
| 1,1-Dichloroethylene                              | 8.78   |                    | "     | 10.0           |                   | 87.8                                      | 68-138         |          | 12.2  | 30           |          |
| 1,1-Dichloropropylene                             | 8.53   |                    | "     | 10.0           |                   | 85.3                                      | 83-133         |          | 17.0  | 30           |          |
| 1,2,3-Trichlorobenzene                            | 9.23   |                    | "     | 10.0           |                   | 92.3                                      | 76-136         |          | 3.83  | 30           |          |
| 1,2,3-Trichloropropane                            | 9.49   |                    | "     | 10.0           |                   | 94.9                                      | 77-128         |          | 9.72  | 30           |          |
| 1,2,4-Trichlorobenzene                            | 8.95   |                    | "     | 10.0           |                   | 89.5                                      | 76-137         |          | 2.97  | 30           |          |
| 1,2,4-Trimethylbenzene                            | 9.01   |                    | "     | 10.0           |                   | 90.1                                      | 82-132         |          | 1.76  | 30           |          |
| 1,2-Dibromo-3-chloropropane                       | 10.5   |                    | "     | 10.0           |                   | 105                                       | 45-147         |          | 23.9  | 30           |          |
| 1,2-Dibromoethane                                 | 10.4   |                    | "     | 10.0           |                   | 104                                       | 83-124         |          | 1.65  | 30           |          |
| 1,2-Dichlorobenzene                               | 9.24   |                    | "     | 10.0           |                   | 92.4                                      | 79-123         |          | 3.09  | 30           |          |
| 1,2-Dichloroethane                                | 11.0   |                    | "     | 10.0           |                   | 110                                       | 73-132         |          | 16.7  | 30           |          |
| 1,2-Dichloropropane                               | 9.55   |                    | "     | 10.0           |                   | 95.5                                      | 78-126         |          | 0.736 | 30           |          |
| 1,3,5-Trimethylbenzene                            | 8.30   |                    | "     | 10.0           |                   | 83.0                                      | 80-131         |          | 4.82  | 30           |          |
| 1,3-Dichlorobenzene                               | 8.58   |                    | "     | 10.0           |                   | 85.8                                      | 86-122         | Low Bias | 0.697 | 30           |          |
| 1,3-Dichloropropane                               | 9.87   |                    | "     | 10.0           |                   | 98.7                                      | 81-125         |          | 1.21  | 30           |          |
| 1,4-Dichlorobenzene                               | 8.85   |                    | "     | 10.0           |                   | 88.5                                      | 85-124         |          | 6.45  | 30           |          |
| 2,2-Dichloropropane                               | 5.30   |                    | "     | 10.0           |                   | 53.0                                      | 56-150         | Low Bias | 32.0  | 30           | Non-dir. |
| 2-Chlorotoluene                                   | 8.92   |                    | "     | 10.0           |                   | 89.2                                      | 79-130         |          | 1.89  | 30           |          |
| 2-Hexanone                                        | 9.33   |                    | "     | 10.0           |                   | 93.3                                      | 51-146         |          | 22.5  | 30           |          |
| 4-Chlorotoluene                                   | 8.70   |                    | "     | 10.0           |                   | 87.0                                      | 79-128         |          | 6.56  | 30           |          |
| Acetone                                           | 9.46   |                    | "     | 10.0           |                   | 94.6                                      | 14-150         |          | 43.2  | 30           | Non-dir. |
| Benzene                                           | 9.14   |                    | "     | 10.0           |                   | 91.4                                      | 85-126         |          | 13.6  | 30           |          |
| Bromobenzene                                      | 8.36   |                    | "     | 10.0           |                   | 83.6                                      | 78-129         |          | 6.82  | 30           |          |
| Bromochloromethane                                | 9.55   |                    | "     | 10.0           |                   | 95.5                                      | 77-128         |          | 21.3  | 30           |          |
| Bromodichloromethane                              | 11.6   |                    | "     | 10.0           |                   | 116                                       | 79-128         |          | 0.690 | 30           |          |
| Bromoform                                         | 11.4   |                    | "     | 10.0           |                   | 114                                       | 78-133         |          | 1.87  | 30           |          |
| Bromomethane                                      | 8.66   |                    | "     | 10.0           |                   | 86.6                                      | 43-168         |          | 10.2  | 30           |          |
| Carbon tetrachloride                              | 10.1   |                    | "     | 10.0           |                   | 101                                       | 77-141         |          | 10.8  | 30           |          |
| Chlorobenzene                                     | 9.42   |                    | "     | 10.0           |                   | 94.2                                      | 88-120         |          | 2.62  | 30           |          |
| Chloroethane                                      | 7.38   |                    | "     | 10.0           |                   | 73.8                                      | 65-136         |          | 14.0  | 30           |          |
| Chloroform                                        | 12.2   |                    | "     | 10.0           |                   | 122                                       | 82-128         |          | 0.490 | 30           |          |
| Chloromethane                                     | 8.76   |                    | "     | 10.0           |                   | 87.6                                      | 43-155         |          | 11.4  | 30           |          |
| cis-1,2-Dichloroethylene                          | 9.45   |                    | "     | 10.0           |                   | 94.5                                      | 83-129         |          | 24.1  | 30           |          |
| cis-1,3-Dichloropropylene                         | 9.26   |                    | "     | 10.0           |                   | 92.6                                      | 80-131         |          | 0.216 | 30           |          |
| Dibromochloromethane                              | 11.6   |                    | "     | 10.0           |                   | 116                                       | 80-130         |          | 0.952 | 30           |          |
| Dibromomethane                                    | 10.8   |                    | "     | 10.0           |                   | 108                                       | 72-134         |          | 10.2  | 30           |          |
| Dichlorodifluoromethane                           | 7.45   |                    | "     | 10.0           |                   | 74.5                                      | 44-144         |          | 12.8  | 30           |          |
| Ethyl Benzene                                     | 8.85   |                    | "     | 10.0           |                   | 88.5                                      | 80-131         |          | 2.35  | 30           |          |
| Hexachlorobutadiene                               | 8.90   |                    | "     | 10.0           |                   | 89.0                                      | 67-146         |          | 3.20  | 30           |          |
| Isopropylbenzene                                  | 8.08   |                    | "     | 10.0           |                   | 80.8                                      | 76-140         |          | 3.29  | 30           |          |
| Methyl tert-butyl ether (MTBE)                    | 8.47   |                    | "     | 10.0           |                   | 84.7                                      | 76-135         |          | 15.3  | 30           |          |
| Methylene chloride                                | 9.13   |                    | "     | 10.0           |                   | 91.3                                      | 55-137         |          | 12.8  | 30           |          |
| Naphthalene                                       | 9.56   |                    | "     | 10.0           |                   | 95.6                                      | 70-147         |          | 0.314 | 30           |          |
| n-Butylbenzene                                    | 8.60   |                    | "     | 10.0           |                   | 86.0                                      | 79-132         |          | 2.00  | 30           |          |
| n-Propylbenzene                                   | 7.85   |                    | "     | 10.0           |                   | 78.5                                      | 78-133         |          | 2.27  | 30           |          |
| o-Xylene                                          | 9.53   |                    | "     | 10.0           |                   | 95.3                                      | 78-130         |          | 5.41  | 30           |          |



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41021 - EPA 5030B

#### LCS Dup (BK41021-BSD1)

Prepared: 11/20/2014 Analyzed: 11/21/2014

|                                         |             |  |          |             |  |             |               |          |       |    |
|-----------------------------------------|-------------|--|----------|-------------|--|-------------|---------------|----------|-------|----|
| p- & m- Xylenes                         | 18.6        |  | ug/L     | 20.0        |  | 92.9        | 77-133        |          | 1.35  | 30 |
| p-Isopropyltoluene                      | 8.22        |  | "        | 10.0        |  | 82.2        | 81-136        |          | 4.17  | 30 |
| sec-Butylbenzene                        | 7.84        |  | "        | 10.0        |  | 78.4        | 79-137        | Low Bias | 1.14  | 30 |
| Styrene                                 | 9.58        |  | "        | 10.0        |  | 95.8        | 67-132        |          | 2.47  | 30 |
| tert-Butylbenzene                       | 8.49        |  | "        | 10.0        |  | 84.9        | 77-138        |          | 0.353 | 30 |
| Tetrachloroethylene                     | 8.90        |  | "        | 10.0        |  | 89.0        | 82-131        |          | 2.39  | 30 |
| Toluene                                 | 8.75        |  | "        | 10.0        |  | 87.5        | 80-127        |          | 0.114 | 30 |
| trans-1,2-Dichloroethylene              | 8.60        |  | "        | 10.0        |  | 86.0        | 80-132        |          | 13.7  | 30 |
| trans-1,3-Dichloropropylene             | 9.64        |  | "        | 10.0        |  | 96.4        | 78-131        |          | 2.36  | 30 |
| Trichloroethylene                       | 10.2        |  | "        | 10.0        |  | 102         | 82-128        |          | 0.493 | 30 |
| Trichlorofluoromethane                  | 9.08        |  | "        | 10.0        |  | 90.8        | 67-139        |          | 12.4  | 30 |
| Vinyl Chloride                          | 7.34        |  | "        | 10.0        |  | 73.4        | 58-145        |          | 12.0  | 30 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>12.3</i> |  | <i>"</i> | <i>10.0</i> |  | <i>123</i>  | <i>69-130</i> |          |       |    |
| <i>Surrogate: p-Bromofluorobenzene</i>  | <i>9.71</i> |  | <i>"</i> | <i>10.0</i> |  | <i>97.1</i> | <i>79-122</i> |          |       |    |
| <i>Surrogate: Toluene-d8</i>            | <i>9.82</i> |  | <i>"</i> | <i>10.0</i> |  | <i>98.2</i> | <i>81-117</i> |          |       |    |





### Volatile Analysis Sample Containers

| Lab ID     | Client Sample ID | Volatile Sample Container                     |
|------------|------------------|-----------------------------------------------|
| 14K0569-01 | RW-2             | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0569-02 | FRW-1            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0569-03 | FRW-2            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0569-04 | FRW-3            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |
| 14K0569-05 | FRW-4            | 40mL Clear Vial (pre-pres.) HCl; Cool to 4° C |



## Notes and Definitions

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-08        | The recovery of this surrogate was outside of QC limits.                                                                                                                                                                                                                                                                                                                                                                                    |
| QL-02       | This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.                                                                                                                                                                                                                                          |
| J           | Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.                                                                                                                                                                                                                                                                     |
| B           | Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.                                                                                                                                                                                                                                   |
| <hr/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                              |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                     |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                    |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                      |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                               |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                             |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.          |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.        |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.





YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

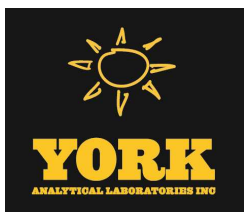
NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 14K0569

Page 1 of 1

| YOUR INFORMATION                                                                                                                                                                                                                                                                                                                                            |                       | Report to:                               |                                          | Invoice To: |  | Your Project ID                         |  | Turn-Around Time   |  | Report/Deliverable Type |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------|------------------------------------------|-------------|--|-----------------------------------------|--|--------------------|--|-------------------------|--|
| Company:                                                                                                                                                                                                                                                                                                                                                    | LBG                   | SAME <input checked="" type="checkbox"/> | SAME <input checked="" type="checkbox"/> | Name:       |  | Rowe Industries                         |  | RUSH-Same Day      |  | Summary Report X, PDF   |  |
| Address:                                                                                                                                                                                                                                                                                                                                                    | 4 Research Drive      | Name:                                    |                                          | Company:    |  | Purchase Order #                        |  | RUSH-Next Day      |  | QA Report X, PDF        |  |
| Suite:                                                                                                                                                                                                                                                                                                                                                      | 301, Shelton CT 06484 | Address:                                 |                                          | Address:    |  | NABSAG                                  |  | RUSH-Two Day       |  | CT RCP                  |  |
| Phone:                                                                                                                                                                                                                                                                                                                                                      | 203.929.8555          | E-mail:                                  |                                          | E-mail:     |  | Samples from CT_NY x_NJ__               |  | RUSH-Three Day     |  | CT RCP DQA/DUE Pkg      |  |
| Contact:                                                                                                                                                                                                                                                                                                                                                    | Tunde Sandor          | E-mail:                                  |                                          | E-mail:     |  | Standard (5-7 day)                      |  | RUSH-Four Day      |  | NY ASP A Package        |  |
| E-mail:                                                                                                                                                                                                                                                                                                                                                     | tsandor@lbac.com      | E-mail:                                  |                                          | E-mail:     |  |                                         |  | Standard (5-7 day) |  | NY ASP B Package X, PDF |  |
| <p><b>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b></p> <p>Signature: <u>Mark M. Goldberg</u><br/>Name (printed): <u>Mark M. Goldberg</u><br/>Samples Collected/Authorized By (Signature):<br/>Name (printed):</p> |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Matrix Codes</b></p> <p>S - soil<br/>Other - specify (oil, etc.)<br/>WW - wastewater<br/>GW - groundwater<br/>DW - drinking water<br/>Air-A - ambient air<br/>Air-SV - soil vapor</p>                                                                                                                                                                 |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Volatiles</b></p> <p>8260 full list<br/>624 Site Spec.<br/>STARS list<br/>BTEX<br/>MTBE<br/>TCL list<br/>TAGM list<br/>CT RCP list<br/>Arom. only<br/>Halog. only<br/>App IX list<br/>8021B list</p>                                                                                                                                                  |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Semi-Vols, Pest/Chlorinated</b></p> <p>8270 or 625<br/>STARS list<br/>BN Only<br/>Acids Only<br/>PAH list<br/>TAGM list<br/>CT RCP list<br/>TCL list<br/>Arom. only<br/>Halog. only<br/>App IX list<br/>8021B list</p>                                                                                                                                |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Metals</b></p> <p>RCKA8<br/>PP13 list<br/>TAL<br/>CT15 list<br/>TAGM list<br/>NIDEPL list<br/>Total<br/>Dissolved<br/>SPL or TCLP<br/>Indic. Metals<br/>LIST Below</p>                                                                                                                                                                                |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Misc. Org.</b></p> <p>TPH GRO<br/>TPH DRO<br/>CT ETPH<br/>NY 310-13<br/>TPH 1664<br/>Air TO14A<br/>Air TO15<br/>Air STARS<br/>Air VPH<br/>Air TICs<br/>Methane<br/>Helium</p>                                                                                                                                                                         |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Full Lists</b></p> <p>Ph. Poll.<br/>TCL Organics<br/>TAL Metals<br/>Full TCLP<br/>Full App IX<br/>Part 360 Residue<br/>Part 360 Residue<br/>Part 360 Residue<br/>NYCDEP Soar<br/>NYCDEP Soar<br/>NYCDEP Soar</p>                                                                                                                                      |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>OTHER:</b></p> <p>YORK Regulatory Comp Excel compared to:</p>                                                                                                                                                                                                                                                                                         |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Container Description</b></p> <p>3 voas</p>                                                                                                                                                                                                                                                                                                           |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Analysis Requested (List above includes common analysis)</b></p> <p>VOC 8260 full list (EPA SW846-8260B) plus freon 113</p>                                                                                                                                                                                                                           |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| Sample Identification                                                                                                                                                                                                                                                                                                                                       |                       | Date/Time Sampled                        |                                          | Matrix      |  | Preservation (check all applicable)     |  | 4°C                |  | Frozen                  |  |
| RW-2                                                                                                                                                                                                                                                                                                                                                        |                       | 11/13/14 9:50 am                         |                                          | GW          |  | Special Instructions                    |  | HCl                |  | MeOH                    |  |
| RW-1                                                                                                                                                                                                                                                                                                                                                        |                       | 10 am                                    |                                          |             |  | Field Filtered <input type="checkbox"/> |  | ZnAc               |  | Ascorbic Acid           |  |
| RW-2                                                                                                                                                                                                                                                                                                                                                        |                       | 10 am                                    |                                          |             |  | Lab to Filter <input type="checkbox"/>  |  |                    |  |                         |  |
| RW-3                                                                                                                                                                                                                                                                                                                                                        |                       | 10:10 am                                 |                                          |             |  |                                         |  |                    |  |                         |  |
| RW-4                                                                                                                                                                                                                                                                                                                                                        |                       | 10:15 am                                 |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Comments:</b></p> <p>11/13/14 9:50 am</p>                                                                                                                                                                                                                                                                                                             |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Special Instructions</b></p> <p>Field Filtered <input type="checkbox"/></p> <p>Lab to Filter <input type="checkbox"/></p>                                                                                                                                                                                                                             |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |
| <p><b>Samples Relinquished By</b> <u>David A. Williams</u> <u>11/14/14 11:10</u> <u>11/14/14 11:10</u> <u>11/14/14 11:10</u></p> <p><b>Samples Relinquished By</b> <u>11-14-14</u> <u>1300</u> <u>4.4°C</u></p>                                                                                                                                             |                       |                                          |                                          |             |  |                                         |  |                    |  |                         |  |

**APPENDIX III**  
**NOVEMBER 2014 LABORATORY ANALYTICAL REPORTS**  
**FOR AIR SAMPLES**



# Technical Report

prepared for:

**Leggette Brashears & Graham Shelton Office**

4 Research Drive, Suite 204

Shelton CT, 06484

**Attention: Tunde Komuves-Sandor**

Report Date: 11/26/2014

**Client Project ID: Rowe Industries Site**

York Project (SDG) No.: 14K0894

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/26/2014  
Client Project ID: Rowe Industries Site  
York Project (SDG) No.: 14K0894

**Leggette Brashears & Graham Shelton Office**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 25, 2014 and listed below. The project was identified as your project: **Rowe Industries Site**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u>    | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|------------------|-----------------------|----------------------|
| 14K0894-01            | AQ112414:1200NP4-1      | Vapor Extraction | 11/24/2014            | 11/25/2014           |
| 14K0894-02            | AQ112414:1205NP4-2      | Vapor Extraction | 11/24/2014            | 11/25/2014           |
| 14K0894-03            | AQ112414:1210NP4-3      | Vapor Extraction | 11/24/2014            | 11/25/2014           |

## General Notes for York Project (SDG) No.: 14K0894

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 11/26/2014





## Sample Information

**Client Sample ID:** AQ112414:1200NP4-1

**York Sample ID:** 14K0894-01

York Project (SDG) No.

14K0894

Client Project ID

Rowe Industries Site

Matrix

Vapor Extraction

Collection Date/Time

November 24, 2014 12:00 pm

Date Received

11/25/2014

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.     | Parameter                      | Result      | Flag | Units             | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|--------------------------------|-------------|------|-------------------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| 75-01-4     | Vinyl Chloride                 | ND          |      | ug/m <sup>3</sup> | 0.11    | 0.11            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 108-05-4    | Vinyl acetate                  | ND          |      | ug/m <sup>3</sup> | 0.59    | 0.59            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 79-01-6     | Trichloroethylene              | ND          |      | ug/m <sup>3</sup> | 0.23    | 0.23            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 10061-02-6  | trans-1,3-Dichloropropylene    | ND          |      | ug/m <sup>3</sup> | 0.76    | 0.76            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 156-60-5    | trans-1,2-Dichloroethylene     | ND          |      | ug/m <sup>3</sup> | 0.67    | 0.67            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 108-88-3    | Toluene                        | ND          |      | ug/m <sup>3</sup> | 0.63    | 0.63            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 109-99-9    | * Tetrahydrofuran              | ND          |      | ug/m <sup>3</sup> | 0.50    | 0.50            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 127-18-4    | Tetrachloroethylene            | ND          |      | ug/m <sup>3</sup> | 0.28    | 0.28            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 100-42-5    | Styrene                        | ND          |      | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 115-07-1    | * Propylene                    | ND          |      | ug/m <sup>3</sup> | 0.29    | 0.29            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 622-96-8    | * p-Ethyltoluene               | ND          |      | ug/m <sup>3</sup> | 0.83    | 0.83            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 179601-23-1 | p- & m- Xylenes                | ND          |      | ug/m <sup>3</sup> | 1.5     | 1.5             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 95-47-6     | o-Xylene                       | ND          |      | ug/m <sup>3</sup> | 0.73    | 0.73            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 110-54-3    | n-Hexane                       | ND          |      | ug/m <sup>3</sup> | 0.59    | 0.59            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 142-82-5    | n-Heptane                      | ND          |      | ug/m <sup>3</sup> | 0.69    | 0.69            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-09-2     | <b>Methylene chloride</b>      | <b>2.0</b>  | B    | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 1634-04-4   | Methyl tert-butyl ether (MTBE) | ND          |      | ug/m <sup>3</sup> | 0.60    | 0.60            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 108-10-1    | 4-Methyl-2-pentanone           | ND          |      | ug/m <sup>3</sup> | 0.69    | 0.69            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 67-63-0     | <b>Isopropanol</b>             | <b>0.87</b> |      | ug/m <sup>3</sup> | 0.83    | 0.83            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 87-68-3     | Hexachlorobutadiene            | ND          |      | ug/m <sup>3</sup> | 1.8     | 1.8             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 100-41-4    | Ethyl Benzene                  | ND          |      | ug/m <sup>3</sup> | 0.73    | 0.73            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 141-78-6    | * Ethyl acetate                | ND          |      | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 110-82-7    | Cyclohexane                    | ND          |      | ug/m <sup>3</sup> | 0.58    | 0.58            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 10061-01-5  | cis-1,3-Dichloropropylene      | ND          |      | ug/m <sup>3</sup> | 0.76    | 0.76            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 156-59-2    | cis-1,2-Dichloroethylene       | ND          |      | ug/m <sup>3</sup> | 0.67    | 0.67            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 74-87-3     | <b>Chloromethane</b>           | <b>2.0</b>  |      | ug/m <sup>3</sup> | 0.35    | 0.35            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 67-66-3     | Chloroform                     | ND          |      | ug/m <sup>3</sup> | 0.82    | 0.82            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-00-3     | Chloroethane                   | ND          |      | ug/m <sup>3</sup> | 0.44    | 0.44            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 56-23-5     | Carbon tetrachloride           | ND          |      | ug/m <sup>3</sup> | 0.26    | 0.26            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-15-0     | Carbon disulfide               | ND          |      | ug/m <sup>3</sup> | 0.52    | 0.52            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 74-83-9     | Bromomethane                   | ND          |      | ug/m <sup>3</sup> | 0.65    | 0.65            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-25-2     | Bromoform                      | ND          |      | ug/m <sup>3</sup> | 1.7     | 1.7             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-27-4     | Bromodichloromethane           | ND          |      | ug/m <sup>3</sup> | 1.0     | 1.0             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 100-44-7    | Benzyl chloride                | ND          |      | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 71-43-2     | <b>Benzene</b>                 | <b>0.75</b> |      | ug/m <sup>3</sup> | 0.54    | 0.54            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |





## Sample Information

**Client Sample ID:** AQ112414:1200NP4-1

**York Sample ID:** 14K0894-01

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:00 pm

Date Received  
11/25/2014

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.              | Parameter                                         | Result | Flag             | Units             | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------------------|---------------------------------------------------|--------|------------------|-------------------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| 67-64-1              | Acetone                                           | 8.0    |                  | ug/m <sup>3</sup> | 0.40    | 0.40            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 591-78-6             | * 2-Hexanone                                      | ND     |                  | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 78-93-3              | 2-Butanone                                        | 1.6    |                  | ug/m <sup>3</sup> | 0.50    | 0.50            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 123-91-1             | 1,4-Dioxane                                       | ND     |                  | ug/m <sup>3</sup> | 0.61    | 0.61            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 106-46-7             | 1,4-Dichlorobenzene                               | ND     |                  | ug/m <sup>3</sup> | 1.0     | 1.0             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 541-73-1             | 1,3-Dichlorobenzene                               | ND     |                  | ug/m <sup>3</sup> | 1.0     | 1.0             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 106-99-0             | 1,3-Butadiene                                     | ND     |                  | ug/m <sup>3</sup> | 0.73    | 0.73            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 108-67-8             | 1,3,5-Trimethylbenzene                            | ND     |                  | ug/m <sup>3</sup> | 0.83    | 0.83            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 76-14-2              | 1,2-Dichlorotetrafluoroethane                     | ND     |                  | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 78-87-5              | 1,2-Dichloropropane                               | ND     |                  | ug/m <sup>3</sup> | 0.78    | 0.78            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 107-06-2             | 1,2-Dichloroethane                                | ND     |                  | ug/m <sup>3</sup> | 0.68    | 0.68            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 95-50-1              | 1,2-Dichlorobenzene                               | ND     |                  | ug/m <sup>3</sup> | 1.0     | 1.0             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 95-63-6              | 1,2,4-Trimethylbenzene                            | ND     |                  | ug/m <sup>3</sup> | 0.83    | 0.83            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 120-82-1             | 1,2,4-Trichlorobenzene                            | ND     |                  | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-35-4              | 1,1-Dichloroethylene                              | ND     |                  | ug/m <sup>3</sup> | 0.67    | 0.67            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-34-3              | 1,1-Dichloroethane                                | ND     |                  | ug/m <sup>3</sup> | 0.68    | 0.68            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-69-4              | Trichlorofluoromethane (Freon 11)                 | 1.3    |                  | ug/m <sup>3</sup> | 0.94    | 0.94            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 79-00-5              | 1,1,2-Trichloroethane                             | ND     |                  | ug/m <sup>3</sup> | 0.92    | 0.92            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 76-13-1              | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND     |                  | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 79-34-5              | 1,1,2,2-Tetrachloroethane                         | ND     |                  | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 71-55-6              | 1,1,1-Trichloroethane                             | ND     |                  | ug/m <sup>3</sup> | 0.92    | 0.92            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 75-71-8              | Dichlorodifluoromethane                           | 2.4    |                  | ug/m <sup>3</sup> | 0.83    | 0.83            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 106-93-4             | 1,2-Dibromoethane                                 | ND     |                  | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 124-48-1             | Dibromochloromethane                              | ND     |                  | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 80-62-6              | Methyl Methacrylate                               | ND     |                  | ug/m <sup>3</sup> | 0.69    | 0.69            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| 108-90-7             | Chlorobenzene                                     | ND     |                  | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.68     | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 18:57   | ALD     |
| Surrogate Recoveries |                                                   | Result | Acceptance Range |                   |         |                 |          |                  |                    |                    |         |
| 460-00-4             | Surrogate: <i>p</i> -Bromofluorobenzene           | 97.3 % | 72-118           |                   |         |                 |          |                  |                    |                    |         |

## Sample Information

**Client Sample ID:** AQ112414:1205NP4-2

**York Sample ID:** 14K0894-02

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:05 pm

Date Received  
11/25/2014



## Sample Information

**Client Sample ID:** AQ112414:1205NP4-2

**York Sample ID:** 14K0894-02

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:05 pm

Date Received  
11/25/2014

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.     | Parameter                             | Result      | Flag | Units             | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|---------------------------------------|-------------|------|-------------------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| 75-01-4     | Vinyl Chloride                        | ND          |      | ug/m <sup>3</sup> | 0.11    | 0.11            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 108-05-4    | Vinyl acetate                         | ND          |      | ug/m <sup>3</sup> | 0.62    | 0.62            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 79-01-6     | Trichloroethylene                     | ND          |      | ug/m <sup>3</sup> | 0.24    | 0.24            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 10061-02-6  | trans-1,3-Dichloropropylene           | ND          |      | ug/m <sup>3</sup> | 0.80    | 0.80            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 156-60-5    | trans-1,2-Dichloroethylene            | ND          |      | ug/m <sup>3</sup> | 0.70    | 0.70            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 108-88-3    | Toluene                               | ND          |      | ug/m <sup>3</sup> | 0.67    | 0.67            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 109-99-9    | * Tetrahydrofuran                     | ND          |      | ug/m <sup>3</sup> | 0.52    | 0.52            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 127-18-4    | <b>Tetrachloroethylene</b>            | <b>1.9</b>  | B    | ug/m <sup>3</sup> | 0.30    | 0.30            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 100-42-5    | Styrene                               | ND          |      | ug/m <sup>3</sup> | 0.75    | 0.75            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 115-07-1    | * Propylene                           | ND          |      | ug/m <sup>3</sup> | 0.30    | 0.30            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 622-96-8    | * <b>p-Ethyltoluene</b>               | <b>7.8</b>  |      | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 179601-23-1 | <b>p- &amp; m- Xylenes</b>            | <b>7.6</b>  |      | ug/m <sup>3</sup> | 1.5     | 1.5             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 95-47-6     | <b>o-Xylene</b>                       | <b>0.92</b> |      | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 110-54-3    | n-Hexane                              | ND          |      | ug/m <sup>3</sup> | 0.62    | 0.62            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 142-82-5    | n-Heptane                             | ND          |      | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-09-2     | <b>Methylene chloride</b>             | <b>2.6</b>  | B    | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 1634-04-4   | <b>Methyl tert-butyl ether (MTBE)</b> | <b>1.1</b>  |      | ug/m <sup>3</sup> | 0.64    | 0.64            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 108-10-1    | 4-Methyl-2-pentanone                  | ND          |      | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 67-63-0     | <b>Isopropanol</b>                    | <b>2.5</b>  |      | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 87-68-3     | Hexachlorobutadiene                   | ND          |      | ug/m <sup>3</sup> | 1.9     | 1.9             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 100-41-4    | <b>Ethyl Benzene</b>                  | <b>2.9</b>  |      | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 141-78-6    | * Ethyl acetate                       | ND          |      | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 110-82-7    | Cyclohexane                           | ND          |      | ug/m <sup>3</sup> | 0.61    | 0.61            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 10061-01-5  | cis-1,3-Dichloropropylene             | ND          |      | ug/m <sup>3</sup> | 0.80    | 0.80            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 156-59-2    | <b>cis-1,2-Dichloroethylene</b>       | <b>5.2</b>  |      | ug/m <sup>3</sup> | 0.70    | 0.70            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 74-87-3     | <b>Chloromethane</b>                  | <b>1.8</b>  |      | ug/m <sup>3</sup> | 0.37    | 0.37            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 67-66-3     | <b>Chloroform</b>                     | <b>1.2</b>  |      | ug/m <sup>3</sup> | 0.86    | 0.86            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-00-3     | Chloroethane                          | ND          |      | ug/m <sup>3</sup> | 0.47    | 0.47            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 56-23-5     | <b>Carbon tetrachloride</b>           | <b>0.89</b> |      | ug/m <sup>3</sup> | 0.28    | 0.28            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-15-0     | Carbon disulfide                      | ND          |      | ug/m <sup>3</sup> | 0.55    | 0.55            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 74-83-9     | Bromomethane                          | ND          |      | ug/m <sup>3</sup> | 0.69    | 0.69            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-25-2     | Bromoform                             | ND          |      | ug/m <sup>3</sup> | 1.8     | 1.8             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-27-4     | Bromodichloromethane                  | ND          |      | ug/m <sup>3</sup> | 1.1     | 1.1             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 100-44-7    | Benzyl chloride                       | ND          |      | ug/m <sup>3</sup> | 0.92    | 0.92            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 71-43-2     | Benzene                               | ND          |      | ug/m <sup>3</sup> | 0.56    | 0.56            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 67-64-1     | <b>Acetone</b>                        | <b>5.0</b>  |      | ug/m <sup>3</sup> | 0.42    | 0.42            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 591-78-6    | * 2-Hexanone                          | ND          |      | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |



## Sample Information

**Client Sample ID:** AQ112414:1205NP4-2

**York Sample ID:** 14K0894-02

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:05 pm

Date Received  
11/25/2014

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.                     | Parameter                                         | Result        | Flag                    | Units             | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---------------------------------------------------|---------------|-------------------------|-------------------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| 78-93-3                     | <b>2-Butanone</b>                                 | <b>2.1</b>    |                         | ug/m <sup>3</sup> | 0.52    | 0.52            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 123-91-1                    | 1,4-Dioxane                                       | ND            |                         | ug/m <sup>3</sup> | 0.64    | 0.64            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 106-46-7                    | 1,4-Dichlorobenzene                               | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 541-73-1                    | 1,3-Dichlorobenzene                               | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 106-99-0                    | 1,3-Butadiene                                     | ND            |                         | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 108-67-8                    | <b>1,3,5-Trimethylbenzene</b>                     | <b>2.9</b>    |                         | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 76-14-2                     | 1,2-Dichlorotetrafluoroethane                     | ND            |                         | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 78-87-5                     | 1,2-Dichloropropane                               | ND            |                         | ug/m <sup>3</sup> | 0.82    | 0.82            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 107-06-2                    | 1,2-Dichloroethane                                | ND            |                         | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 95-50-1                     | 1,2-Dichlorobenzene                               | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 95-63-6                     | <b>1,2,4-Trimethylbenzene</b>                     | <b>15</b>     |                         | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 120-82-1                    | 1,2,4-Trichlorobenzene                            | ND            |                         | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-35-4                     | 1,1-Dichloroethylene                              | ND            |                         | ug/m <sup>3</sup> | 0.70    | 0.70            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-34-3                     | 1,1-Dichloroethane                                | ND            |                         | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-69-4                     | <b>Trichlorofluoromethane (Freon 11)</b>          | <b>2.1</b>    |                         | ug/m <sup>3</sup> | 0.99    | 0.99            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 79-00-5                     | 1,1,2-Trichloroethane                             | ND            |                         | ug/m <sup>3</sup> | 0.96    | 0.96            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 76-13-1                     | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND            |                         | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 79-34-5                     | 1,1,2,2-Tetrachloroethane                         | ND            |                         | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 71-55-6                     | <b>1,1,1-Trichloroethane</b>                      | <b>6.9</b>    |                         | ug/m <sup>3</sup> | 0.96    | 0.96            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 75-71-8                     | <b>Dichlorodifluoromethane</b>                    | <b>2.4</b>    |                         | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 106-93-4                    | 1,2-Dibromoethane                                 | ND            |                         | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 124-48-1                    | Dibromochloromethane                              | ND            |                         | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 80-62-6                     | Methyl Methacrylate                               | ND            |                         | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| 108-90-7                    | Chlorobenzene                                     | ND            |                         | ug/m <sup>3</sup> | 0.81    | 0.81            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 19:53   | ALD     |
| <b>Surrogate Recoveries</b> |                                                   | <b>Result</b> | <b>Acceptance Range</b> |                   |         |                 |          |                  |                    |                    |         |
| 460-00-4                    | Surrogate: <i>p</i> -Bromofluorobenzene           | 97.3 %        | 72-118                  |                   |         |                 |          |                  |                    |                    |         |

## Sample Information

**Client Sample ID:** AQ112414:1210NP4-3

**York Sample ID:** 14K0894-03

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:10 pm

Date Received  
11/25/2014

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:



## Sample Information

**Client Sample ID:** AQ112414:1210NP4-3

**York Sample ID:** 14K0894-03

York Project (SDG) No.  
14K0894

Client Project ID  
Rowe Industries Site

Matrix  
Vapor Extraction

Collection Date/Time  
November 24, 2014 12:10 pm

Date Received  
11/25/2014

Sample Prepared by Method: EPA TO15 PREP

| CAS No.     | Parameter                             | Result      | Flag | Units             | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|---------------------------------------|-------------|------|-------------------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| 75-01-4     | Vinyl Chloride                        | ND          |      | ug/m <sup>3</sup> | 0.11    | 0.11            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 108-05-4    | Vinyl acetate                         | ND          |      | ug/m <sup>3</sup> | 0.62    | 0.62            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 79-01-6     | Trichloroethylene                     | ND          |      | ug/m <sup>3</sup> | 0.24    | 0.24            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 10061-02-6  | trans-1,3-Dichloropropylene           | ND          |      | ug/m <sup>3</sup> | 0.80    | 0.80            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 156-60-5    | trans-1,2-Dichloroethylene            | ND          |      | ug/m <sup>3</sup> | 0.70    | 0.70            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 108-88-3    | Toluene                               | ND          |      | ug/m <sup>3</sup> | 0.67    | 0.67            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 109-99-9    | * Tetrahydrofuran                     | ND          |      | ug/m <sup>3</sup> | 0.52    | 0.52            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 127-18-4    | <b>Tetrachloroethylene</b>            | <b>0.84</b> | B    | ug/m <sup>3</sup> | 0.30    | 0.30            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 100-42-5    | Styrene                               | ND          |      | ug/m <sup>3</sup> | 0.75    | 0.75            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 115-07-1    | * Propylene                           | ND          |      | ug/m <sup>3</sup> | 0.30    | 0.30            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 622-96-8    | * p-Ethyltoluene                      | ND          |      | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 179601-23-1 | p- & m- Xylenes                       | ND          |      | ug/m <sup>3</sup> | 1.5     | 1.5             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 95-47-6     | o-Xylene                              | ND          |      | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 110-54-3    | n-Hexane                              | ND          |      | ug/m <sup>3</sup> | 0.62    | 0.62            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 142-82-5    | n-Heptane                             | ND          |      | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 75-09-2     | <b>Methylene chloride</b>             | <b>2.0</b>  | B    | ug/m <sup>3</sup> | 1.2     | 1.2             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 1634-04-4   | <b>Methyl tert-butyl ether (MTBE)</b> | <b>1.3</b>  |      | ug/m <sup>3</sup> | 0.64    | 0.64            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 108-10-1    | 4-Methyl-2-pentanone                  | ND          |      | ug/m <sup>3</sup> | 0.72    | 0.72            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 67-63-0     | Isopropanol                           | ND          |      | ug/m <sup>3</sup> | 0.87    | 0.87            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 87-68-3     | Hexachlorobutadiene                   | ND          |      | ug/m <sup>3</sup> | 1.9     | 1.9             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 100-41-4    | Ethyl Benzene                         | ND          |      | ug/m <sup>3</sup> | 0.77    | 0.77            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 141-78-6    | * Ethyl acetate                       | ND          |      | ug/m <sup>3</sup> | 1.3     | 1.3             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 110-82-7    | Cyclohexane                           | ND          |      | ug/m <sup>3</sup> | 0.61    | 0.61            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 10061-01-5  | cis-1,3-Dichloropropylene             | ND          |      | ug/m <sup>3</sup> | 0.80    | 0.80            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 156-59-2    | <b>cis-1,2-Dichloroethylene</b>       | <b>2.3</b>  |      | ug/m <sup>3</sup> | 0.70    | 0.70            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 74-87-3     | <b>Chloromethane</b>                  | <b>1.6</b>  |      | ug/m <sup>3</sup> | 0.37    | 0.37            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 67-66-3     | <b>Chloroform</b>                     | <b>2.4</b>  |      | ug/m <sup>3</sup> | 0.86    | 0.86            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 75-00-3     | Chloroethane                          | ND          |      | ug/m <sup>3</sup> | 0.47    | 0.47            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 56-23-5     | <b>Carbon tetrachloride</b>           | <b>0.89</b> |      | ug/m <sup>3</sup> | 0.28    | 0.28            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 75-15-0     | Carbon disulfide                      | ND          |      | ug/m <sup>3</sup> | 0.55    | 0.55            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 74-83-9     | Bromomethane                          | ND          |      | ug/m <sup>3</sup> | 0.69    | 0.69            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 75-25-2     | Bromoform                             | ND          |      | ug/m <sup>3</sup> | 1.8     | 1.8             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 75-27-4     | Bromodichloromethane                  | ND          |      | ug/m <sup>3</sup> | 1.1     | 1.1             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 100-44-7    | Benzyl chloride                       | ND          |      | ug/m <sup>3</sup> | 0.92    | 0.92            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 71-43-2     | Benzene                               | ND          |      | ug/m <sup>3</sup> | 0.56    | 0.56            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 67-64-1     | <b>Acetone</b>                        | <b>1.6</b>  |      | ug/m <sup>3</sup> | 0.42    | 0.42            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 591-78-6    | * 2-Hexanone                          | ND          |      | ug/m <sup>3</sup> | 1.4     | 1.4             | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |
| 78-93-3     | 2-Butanone                            | ND          |      | ug/m <sup>3</sup> | 0.52    | 0.52            | 1.768    | EPA TO-15        | 11/25/2014 14:18   | 11/25/2014 20:49   | ALD     |



## Sample Information

**Client Sample ID:** AQ112414:1210NP4-3

**York Sample ID:** 14K0894-03

**York Project (SDG) No.**  
14K0894

**Client Project ID**  
Rowe Industries Site

**Matrix**  
Vapor Extraction

**Collection Date/Time**  
November 24, 2014 12:10 pm

**Date Received**  
11/25/2014

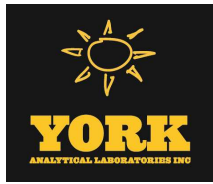
### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.                     | Parameter                                                | Result        | Flag                    | Units             | LOD/MDL | Reported to<br>LOQ | Dilution | Reference Method | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-----------------------------|----------------------------------------------------------|---------------|-------------------------|-------------------|---------|--------------------|----------|------------------|-----------------------|-----------------------|---------|
| 123-91-1                    | 1,4-Dioxane                                              | ND            |                         | ug/m <sup>3</sup> | 0.64    | 0.64               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 106-46-7                    | 1,4-Dichlorobenzene                                      | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 541-73-1                    | 1,3-Dichlorobenzene                                      | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 106-99-0                    | 1,3-Butadiene                                            | ND            |                         | ug/m <sup>3</sup> | 0.77    | 0.77               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 108-67-8                    | 1,3,5-Trimethylbenzene                                   | ND            |                         | ug/m <sup>3</sup> | 0.87    | 0.87               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 76-14-2                     | 1,2-Dichlorotetrafluoroethane                            | ND            |                         | ug/m <sup>3</sup> | 1.2     | 1.2                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 78-87-5                     | 1,2-Dichloropropane                                      | ND            |                         | ug/m <sup>3</sup> | 0.82    | 0.82               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 107-06-2                    | 1,2-Dichloroethane                                       | ND            |                         | ug/m <sup>3</sup> | 0.72    | 0.72               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 95-50-1                     | 1,2-Dichlorobenzene                                      | ND            |                         | ug/m <sup>3</sup> | 1.1     | 1.1                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 95-63-6                     | 1,2,4-Trimethylbenzene                                   | ND            |                         | ug/m <sup>3</sup> | 0.87    | 0.87               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 120-82-1                    | 1,2,4-Trichlorobenzene                                   | ND            |                         | ug/m <sup>3</sup> | 1.3     | 1.3                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 75-35-4                     | 1,1-Dichloroethylene                                     | ND            |                         | ug/m <sup>3</sup> | 0.70    | 0.70               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 75-34-3                     | <b>1,1-Dichloroethane</b>                                | <b>1.7</b>    |                         | ug/m <sup>3</sup> | 0.72    | 0.72               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 75-69-4                     | <b>Trichlorofluoromethane (Freon 11)</b>                 | <b>2.4</b>    |                         | ug/m <sup>3</sup> | 0.99    | 0.99               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 79-00-5                     | 1,1,2-Trichloroethane                                    | ND            |                         | ug/m <sup>3</sup> | 0.96    | 0.96               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 76-13-1                     | <b>1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)</b> | <b>1.6</b>    |                         | ug/m <sup>3</sup> | 1.4     | 1.4                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 79-34-5                     | 1,1,2,2-Tetrachloroethane                                | ND            |                         | ug/m <sup>3</sup> | 1.2     | 1.2                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 71-55-6                     | <b>1,1,1-Trichloroethane</b>                             | <b>14</b>     |                         | ug/m <sup>3</sup> | 0.96    | 0.96               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 75-71-8                     | <b>Dichlorodifluoromethane</b>                           | <b>2.4</b>    |                         | ug/m <sup>3</sup> | 0.87    | 0.87               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 106-93-4                    | 1,2-Dibromoethane                                        | ND            |                         | ug/m <sup>3</sup> | 1.4     | 1.4                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 124-48-1                    | Dibromochloromethane                                     | ND            |                         | ug/m <sup>3</sup> | 1.4     | 1.4                | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 80-62-6                     | Methyl Methacrylate                                      | ND            |                         | ug/m <sup>3</sup> | 0.72    | 0.72               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| 108-90-7                    | Chlorobenzene                                            | ND            |                         | ug/m <sup>3</sup> | 0.81    | 0.81               | 1.768    | EPA TO-15        | 11/25/2014 14:18      | 11/25/2014 20:49      | ALD     |
| <b>Surrogate Recoveries</b> |                                                          | <b>Result</b> | <b>Acceptance Range</b> |                   |         |                    |          |                  |                       |                       |         |
| 460-00-4                    | Surrogate: <i>p</i> -Bromofluorobenzene                  | 96.0 %        | 72-118                  |                   |         |                    |          |                  |                       |                       |         |



## Analytical Batch Summary

**Batch ID:** BK41209

**Preparation Method:** EPA TO15 PREP

**Prepared By:** ALD

| YORK Sample ID | Client Sample ID   | Preparation Date |
|----------------|--------------------|------------------|
| 14K0894-01     | AQ112414:1200NP4-1 | 11/25/14         |
| 14K0894-02     | AQ112414:1205NP4-2 | 11/25/14         |
| 14K0894-03     | AQ112414:1210NP4-3 | 11/25/14         |
| BK41209-BLK1   | Blank              | 11/25/14         |
| BK41209-BS1    | LCS                | 11/25/14         |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41209 - EPA TO15 PREP

#### Blank (BK41209-BLK1)

Prepared & Analyzed: 11/25/2014

|                                |      |       |                   |
|--------------------------------|------|-------|-------------------|
| Vinyl Chloride                 | ND   | 0.064 | ug/m <sup>3</sup> |
| Vinyl acetate                  | ND   | 0.35  | "                 |
| Trichloroethylene              | ND   | 0.13  | "                 |
| trans-1,3-Dichloropropylene    | ND   | 0.45  | "                 |
| trans-1,2-Dichloroethylene     | ND   | 0.40  | "                 |
| Toluene                        | ND   | 0.38  | "                 |
| Tetrahydrofuran                | ND   | 0.29  | "                 |
| Tetrachloroethylene            | 0.54 | 0.17  | "                 |
| Styrene                        | ND   | 0.43  | "                 |
| Propylene                      | ND   | 0.17  | "                 |
| p-Ethyltoluene                 | ND   | 0.49  | "                 |
| p- & m- Xylenes                | ND   | 0.87  | "                 |
| o-Xylene                       | ND   | 0.43  | "                 |
| n-Hexane                       | ND   | 0.35  | "                 |
| n-Heptane                      | ND   | 0.41  | "                 |
| Methylene chloride             | 0.73 | 0.69  | "                 |
| Methyl tert-butyl ether (MTBE) | ND   | 0.36  | "                 |
| 4-Methyl-2-pentanone           | ND   | 0.41  | "                 |
| Isopropanol                    | ND   | 0.49  | "                 |
| Hexachlorobutadiene            | ND   | 1.1   | "                 |
| Ethyl Benzene                  | ND   | 0.43  | "                 |
| Ethyl acetate                  | ND   | 0.72  | "                 |
| Cyclohexane                    | ND   | 0.34  | "                 |
| cis-1,3-Dichloropropylene      | ND   | 0.45  | "                 |
| cis-1,2-Dichloroethylene       | ND   | 0.40  | "                 |
| Chloromethane                  | ND   | 0.21  | "                 |
| Chloroform                     | ND   | 0.49  | "                 |
| Chloroethane                   | ND   | 0.26  | "                 |
| Carbon tetrachloride           | ND   | 0.16  | "                 |
| Carbon disulfide               | ND   | 0.31  | "                 |
| Bromomethane                   | ND   | 0.39  | "                 |
| Bromoform                      | ND   | 1.0   | "                 |
| Bromodichloromethane           | ND   | 0.62  | "                 |
| Benzyl chloride                | ND   | 0.52  | "                 |
| Benzene                        | ND   | 0.32  | "                 |
| Acetone                        | ND   | 0.24  | "                 |
| 2-Hexanone                     | ND   | 0.82  | "                 |
| 2-Butanone                     | ND   | 0.29  | "                 |
| 1,4-Dioxane                    | ND   | 0.36  | "                 |
| 1,4-Dichlorobenzene            | ND   | 0.60  | "                 |
| 1,3-Dichlorobenzene            | ND   | 0.60  | "                 |
| 1,3-Butadiene                  | ND   | 0.43  | "                 |
| 1,3,5-Trimethylbenzene         | ND   | 0.49  | "                 |
| 1,2-Dichlorotetrafluoroethane  | ND   | 0.70  | "                 |
| 1,2-Dichloropropane            | ND   | 0.46  | "                 |
| 1,2-Dichloroethane             | ND   | 0.40  | "                 |
| 1,2-Dichlorobenzene            | ND   | 0.60  | "                 |
| 1,2,4-Trimethylbenzene         | ND   | 0.49  | "                 |
| 1,2,4-Trichlorobenzene         | ND   | 0.74  | "                 |
| 1,1-Dichloroethylene           | ND   | 0.40  | "                 |
| 1,1-Dichloroethane             | ND   | 0.40  | "                 |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

#### Batch BK41209 - EPA TO15 PREP

##### Blank (BK41209-BLK1)

Prepared & Analyzed: 11/25/2014

|                                                   |    |      |                   |  |  |  |  |  |  |  |  |
|---------------------------------------------------|----|------|-------------------|--|--|--|--|--|--|--|--|
| Trichlorofluoromethane (Freon 11)                 | ND | 0.56 | ug/m <sup>3</sup> |  |  |  |  |  |  |  |  |
| 1,1,2-Trichloroethane                             | ND | 0.55 | "                 |  |  |  |  |  |  |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.77 | "                 |  |  |  |  |  |  |  |  |
| 1,1,2,2-Tetrachloroethane                         | ND | 0.69 | "                 |  |  |  |  |  |  |  |  |
| 1,1,1-Trichloroethane                             | ND | 0.55 | "                 |  |  |  |  |  |  |  |  |
| Dichlorodifluoromethane                           | ND | 0.49 | "                 |  |  |  |  |  |  |  |  |
| 1,2-Dibromoethane                                 | ND | 0.77 | "                 |  |  |  |  |  |  |  |  |
| Dibromochloromethane                              | ND | 0.80 | "                 |  |  |  |  |  |  |  |  |
| Methyl Methacrylate                               | ND | 0.41 | "                 |  |  |  |  |  |  |  |  |
| Chlorobenzene                                     | ND | 0.46 | "                 |  |  |  |  |  |  |  |  |

|                                        |      |  |      |      |  |      |        |  |  |  |  |
|----------------------------------------|------|--|------|------|--|------|--------|--|--|--|--|
| <i>Surrogate: p-Bromofluorobenzene</i> | 9.25 |  | ppbv | 9.60 |  | 96.4 | 72-118 |  |  |  |  |
|----------------------------------------|------|--|------|------|--|------|--------|--|--|--|--|

##### LCS (BK41209-BS1)

Prepared & Analyzed: 11/25/2014

|                                |      |  |      |      |  |      |        |          |  |  |  |
|--------------------------------|------|--|------|------|--|------|--------|----------|--|--|--|
| Vinyl Chloride                 | 9.12 |  | ppbv | 9.70 |  | 94.0 | 70-130 |          |  |  |  |
| Vinyl acetate                  | 5.35 |  | "    | 10.8 |  | 49.5 | 70-130 | Low Bias |  |  |  |
| Trichloroethylene              | 8.10 |  | "    | 9.90 |  | 81.8 | 70-130 |          |  |  |  |
| trans-1,3-Dichloropropylene    | 9.54 |  | "    | 10.9 |  | 87.5 | 70-130 |          |  |  |  |
| trans-1,2-Dichloroethylene     | 8.38 |  | "    | 9.70 |  | 86.4 | 70-130 |          |  |  |  |
| Toluene                        | 9.77 |  | "    | 10.4 |  | 93.9 | 70-130 |          |  |  |  |
| Tetrahydrofuran                | 7.57 |  | "    | 9.20 |  | 82.3 | 70-130 |          |  |  |  |
| Tetrachloroethylene            | 8.01 |  | "    | 10.0 |  | 80.1 | 70-130 |          |  |  |  |
| Styrene                        | 10.1 |  | "    | 10.3 |  | 97.8 | 70-130 |          |  |  |  |
| Propylene                      | 9.09 |  | "    | 10.4 |  | 87.4 | 70-130 |          |  |  |  |
| p-Ethyltoluene                 | 9.80 |  | "    | 10.1 |  | 97.0 | 70-130 |          |  |  |  |
| p- & m- Xylenes                | 19.7 |  | "    | 20.2 |  | 97.5 | 70-130 |          |  |  |  |
| o-Xylene                       | 10.0 |  | "    | 10.5 |  | 95.2 | 70-130 |          |  |  |  |
| n-Hexane                       | 8.79 |  | "    | 10.0 |  | 87.9 | 70-130 |          |  |  |  |
| n-Heptane                      | 8.58 |  | "    | 10.3 |  | 83.3 | 70-130 |          |  |  |  |
| Methylene chloride             | 8.49 |  | "    | 9.90 |  | 85.8 | 70-130 |          |  |  |  |
| Methyl tert-butyl ether (MTBE) | 8.31 |  | "    | 9.80 |  | 84.8 | 70-130 |          |  |  |  |
| 4-Methyl-2-pentanone           | 8.19 |  | "    | 9.20 |  | 89.0 | 70-130 |          |  |  |  |
| Isopropanol                    | 6.81 |  | "    | 9.20 |  | 74.0 | 70-130 |          |  |  |  |
| Hexachlorobutadiene            | 8.55 |  | "    | 9.90 |  | 86.4 | 70-130 |          |  |  |  |
| Ethyl Benzene                  | 9.73 |  | "    | 10.3 |  | 94.5 | 70-130 |          |  |  |  |
| Ethyl acetate                  | 10.8 |  | "    | 8.50 |  | 127  | 70-130 |          |  |  |  |
| Cyclohexane                    | 8.80 |  | "    | 10.1 |  | 87.1 | 70-130 |          |  |  |  |
| cis-1,3-Dichloropropylene      | 9.43 |  | "    | 10.5 |  | 89.8 | 70-130 |          |  |  |  |
| cis-1,2-Dichloroethylene       | 9.44 |  | "    | 10.3 |  | 91.7 | 70-130 |          |  |  |  |
| Chloromethane                  | 9.92 |  | "    | 9.70 |  | 102  | 70-130 |          |  |  |  |
| Chloroform                     | 8.78 |  | "    | 10.1 |  | 86.9 | 70-130 |          |  |  |  |
| Chloroethane                   | 9.41 |  | "    | 9.90 |  | 95.1 | 70-130 |          |  |  |  |
| Carbon tetrachloride           | 7.52 |  | "    | 10.2 |  | 73.7 | 70-130 |          |  |  |  |
| Carbon disulfide               | 9.17 |  | "    | 10.5 |  | 87.3 | 70-130 |          |  |  |  |
| Bromomethane                   | 9.39 |  | "    | 9.90 |  | 94.8 | 70-130 |          |  |  |  |
| Bromoform                      | 9.57 |  | "    | 10.1 |  | 94.8 | 70-130 |          |  |  |  |
| Bromodichloromethane           | 9.54 |  | "    | 9.90 |  | 96.4 | 70-130 |          |  |  |  |
| Benzyl chloride                | 10.2 |  | "    | 10.2 |  | 100  | 70-130 |          |  |  |  |
| Benzene                        | 9.45 |  | "    | 10.2 |  | 92.6 | 70-130 |          |  |  |  |
| Acetone                        | 7.89 |  | "    | 9.80 |  | 80.5 | 70-130 |          |  |  |  |
| 2-Hexanone                     | 7.55 |  | "    | 9.30 |  | 81.2 | 70-130 |          |  |  |  |
| 2-Butanone                     | 8.20 |  | "    | 9.40 |  | 87.2 | 70-130 |          |  |  |  |
| 1,4-Dioxane                    | 6.90 |  | "    | 9.90 |  | 69.7 | 70-130 | Low Bias |  |  |  |





## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BK41209 - EPA TO15 PREP

#### LCS (BK41209-BS1)

Prepared & Analyzed: 11/25/2014

|                                                   |      |  |      |      |  |      |        |  |  |  |  |
|---------------------------------------------------|------|--|------|------|--|------|--------|--|--|--|--|
| 1,4-Dichlorobenzene                               | 9.32 |  | ppbv | 10.2 |  | 91.4 | 70-130 |  |  |  |  |
| 1,3-Dichlorobenzene                               | 9.40 |  | "    | 10.2 |  | 92.2 | 70-130 |  |  |  |  |
| 1,3-Butadiene                                     | 10.4 |  | "    | 10.1 |  | 103  | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene                            | 9.45 |  | "    | 10.2 |  | 92.6 | 70-130 |  |  |  |  |
| 1,2-Dichlorotetrafluoroethane                     | 10.8 |  | "    | 10.2 |  | 105  | 70-130 |  |  |  |  |
| 1,2-Dichloropropane                               | 9.89 |  | "    | 10.3 |  | 96.0 | 70-130 |  |  |  |  |
| 1,2-Dichloroethane                                | 7.95 |  | "    | 10.1 |  | 78.7 | 70-130 |  |  |  |  |
| 1,2-Dichlorobenzene                               | 9.30 |  | "    | 10.1 |  | 92.1 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene                            | 9.63 |  | "    | 10.2 |  | 94.4 | 70-130 |  |  |  |  |
| 1,2,4-Trichlorobenzene                            | 9.24 |  | "    | 9.60 |  | 96.2 | 70-130 |  |  |  |  |
| 1,1-Dichloroethylene                              | 8.50 |  | "    | 10.0 |  | 85.0 | 70-130 |  |  |  |  |
| 1,1-Dichloroethane                                | 9.09 |  | "    | 10.0 |  | 90.9 | 70-130 |  |  |  |  |
| Trichlorofluoromethane (Freon 11)                 | 9.05 |  | "    | 10.5 |  | 86.2 | 70-130 |  |  |  |  |
| 1,1,2-Trichloroethane                             | 9.89 |  | "    | 10.3 |  | 96.0 | 70-130 |  |  |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 8.79 |  | "    | 9.70 |  | 90.6 | 70-130 |  |  |  |  |
| 1,1,2,2-Tetrachloroethane                         | 10.0 |  | "    | 10.5 |  | 95.7 | 70-130 |  |  |  |  |
| 1,1,1-Trichloroethane                             | 8.13 |  | "    | 9.90 |  | 82.1 | 70-130 |  |  |  |  |
| Dichlorodifluoromethane                           | 8.75 |  | "    | 10.0 |  | 87.5 | 70-130 |  |  |  |  |
| 1,2-Dibromoethane                                 | 9.48 |  | "    | 10.3 |  | 92.0 | 70-130 |  |  |  |  |
| Dibromochloromethane                              | 9.84 |  | "    | 10.3 |  | 95.5 | 70-130 |  |  |  |  |
| Methyl Methacrylate                               | 9.20 |  | "    | 9.50 |  | 96.8 | 70-130 |  |  |  |  |
| Chlorobenzene                                     | 9.24 |  | "    | 10.4 |  | 88.8 | 70-130 |  |  |  |  |
| Surrogate: <i>p</i> -Bromofluorobenzene           | 9.63 |  | "    | 9.60 |  | 100  | 72-118 |  |  |  |  |



## Notes and Definitions

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QL-03       | This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.                                                                                                                                                                                                                                                                           |
| B           | Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.                                                                                                                                                                                                                                    |
| <hr/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                               |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                      |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                 |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                     |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                       |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                                |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                 |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                              |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.           |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.         |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

