

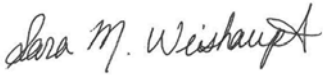
## CERTIFICATION

### Rocky Ledge, North Castle, NY

I, Sara M. Weishaupt, certify that all activities detailed in this Field Activity Summary Report were conducted as described and in full accordance with the approved workplan and any DEC approved modifications, unless otherwise noted herein.

Sara M. Weishaupt  
Regional Coordinator

06/11/2020  
Date

  
Signature

*Reviewed/Accepted By:*

Ella Cattabiani  
Division of Materials Management

6/11/2020  
Date

  
Signature

New York State Department of Environmental Conservation  
Division of Materials Management  
Inactive Landfill Initiative  
Field Activities Summary

**Landfill Name:** Rocky Ledge

**Region:** 3

**Database ID:** 3215

**Date of Field Activities:** 12/12/19

### Summary of Field Activities

One pre-existing monitoring well and three seep locations were sampled at the Rocky Ledge landfill. Two other wells were unable to be sampled since they were dry and/or damaged (MW-3D and OW-3), and two wells were unable to be sampled since they had obstructions in the well casing (MW-2D and OW-1). All work was performed in accordance with the Field Activities Plan (FAP) with no deviations. Approximate locations of the monitoring well and seeps are shown on Figure 1. Groundwater flow direction and emergent contaminant results are shown on Figure 2.

### Monitoring Wells Sampled

| Monitoring Well ID | Date     | Sample Collected (yes/no) | Comments                                                                                                             |
|--------------------|----------|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| OW-2               | 12/12/19 | Yes                       | Sampled with a Peristaltic Pump @ 180 mL/min. GW parameters stabilized.<br>Field Sample ID: 3-WES-006-001-01 @ 12:00 |

## Other Samples

| Sample Location | Sample Type     | Date     | Comments                                                                                                                      |
|-----------------|-----------------|----------|-------------------------------------------------------------------------------------------------------------------------------|
| SEEP-01         | Seep            | 12/12/19 | Slightly west of monitoring well OW-2 at bottom of slope.<br>Field Sample ID: 3-WES-006-001-04                                |
| SEEP-02         | Seep            | 12/12/19 | East of monitoring well OW-1 at bottom of slope, near small stream.<br>Field Sample ID: 3-WES-006-001-05                      |
| SEEP-03         | Seep            | 12/12/19 | Along Stonewall Circle, downslope and east of OW-3 location (approx. 41.0634, -73.7494).<br>Field Sample ID: 3-WES-006-001-06 |
| N/A             | Field Blank     | 12/12/19 | Field QC Sample                                                                                                               |
| N/A             | Equipment Blank | 12/12/19 | Field QC Sample                                                                                                               |

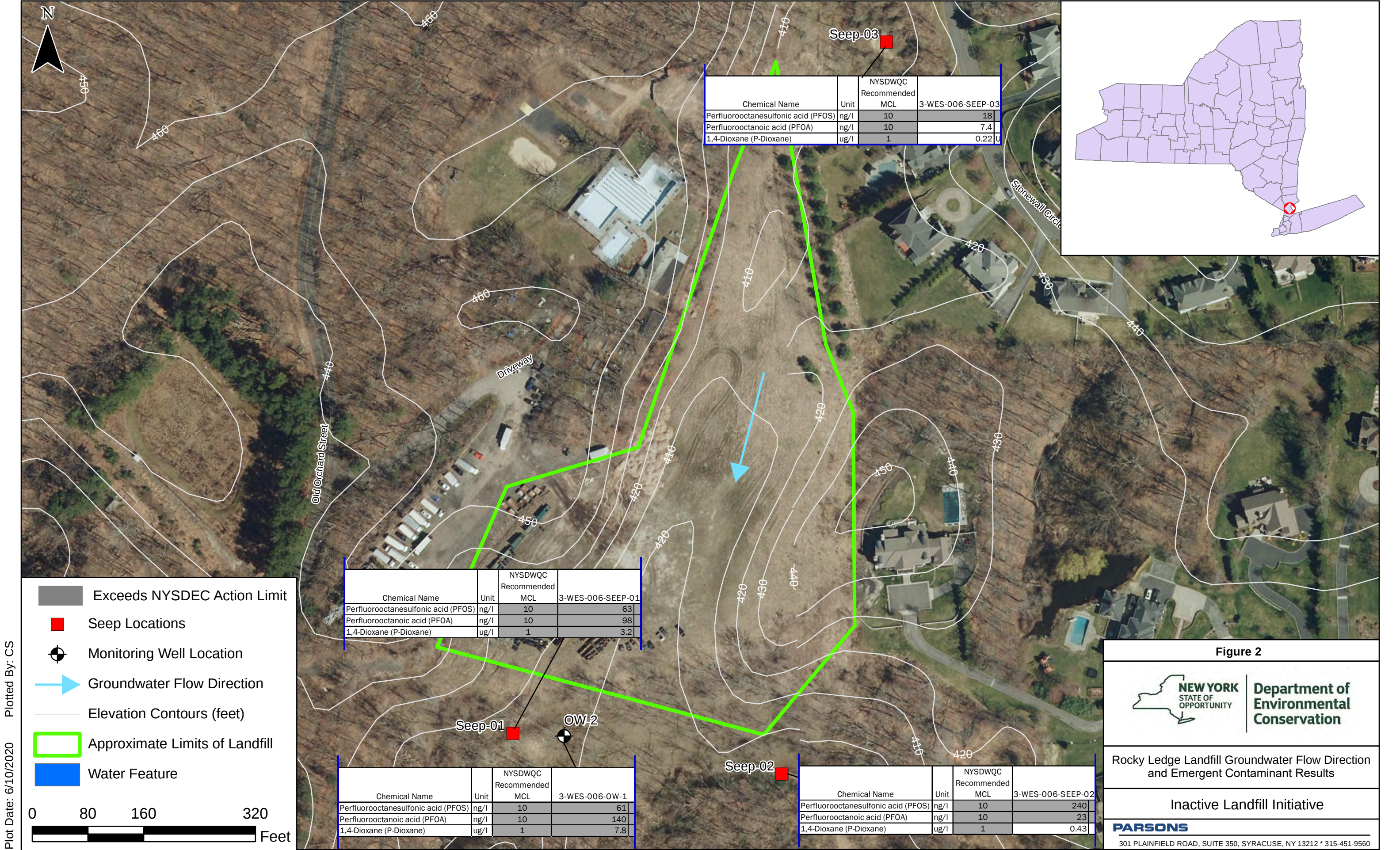
## Figures

|          |                                                                      |
|----------|----------------------------------------------------------------------|
| Figure 1 | Sample Locations                                                     |
| Figure 2 | Groundwater Flow Direction and Emergent Contaminants Results Summary |

## Attachments

|              |                                                 |
|--------------|-------------------------------------------------|
| Attachment 1 | Work Plan [N/A]                                 |
| Attachment 2 | Soil Boring/Well Installation Logs [N/A]        |
| Attachment 3 | Sampling Logs                                   |
| Attachment 4 | Analytical Laboratory Level II Data Deliverable |





Plot Date: 6/10/2020 Plotted By: CS

## **ATTACHMENT 1**

### **WORK PLAN (NOT APPLICABLE)**

## **ATTACHMENT 2**

### **SOIL BORING/WELL INSTALLATION LOGS (NOT APPLICABLE)**

## **ATTACHMENT 3**

### **SAMPLING LOGS**

## Low Flow Ground Water Sampling Log

|               |                   |                   |           |           |            |
|---------------|-------------------|-------------------|-----------|-----------|------------|
| Date          | 12/12/19          | Personnel         | FM, KB    | Weather   | 30°; Sunny |
| Site Name     | Rocky Ledge       | Evacuation Method | Peri Pump | Well #    | OW-2       |
| Site Location | West Harrison, NY | Sampling Method   | Low Flow  | Project # | 450619     |

**Well information:**

|                 |           |                                                                                                                                                                                                                                                                                                             |
|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth of Well   | 14.39 ft. | *Measurements taken from:<br><div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 30px; margin-right: 5px;"></div> <div>           Top of Well Casing<br/>           Top of Protective Casing<br/>           (Other, Specify)         </div> </div> |
| Depth to Water  | 4.15 ft.  |                                                                                                                                                                                                                                                                                                             |
| H <sub>wc</sub> | 10.24 ft. |                                                                                                                                                                                                                                                                                                             |
| Depth to Intake | 12.39 ft. |                                                                                                                                                                                                                                                                                                             |

Start Purge Time: 1130

[illegible]

End Purge Time: 1315

## Water Sample

|                                                                                                                                                          |                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time Collected: <u>1200</u><br>Physical appearance at start:<br>Color <u>Clear w/Dark Particles</u><br>Odor <u>Yes</u><br>Sheen/Free Product <u>None</u> | Total volume of purged water removed: <u>5</u> (gallons)<br>Physical appearance at start:<br>Color <u>Clear</u><br>Odor <u>Yes</u><br>Sheen/Free Product <u>None</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |        |
|-----------------|--------|
| <b>Samples:</b> | Normal |
|-----------------|--------|

| Sample      | Container Type | # Collected | Field Filtered | Preservative | Container pH |
|-------------|----------------|-------------|----------------|--------------|--------------|
| PFAS        | Plastic 250 mL | 2           | No             | None         |              |
| 1,4-Dioxane | Amber 1L       | 2           | No             | None         |              |
| VOCs        | Voa Vial 40 mL | 3           | No             | HCl          |              |
| TOC         | Voa Vial 40 mL | 2           | No             | HCl          |              |
| PAHs        | Amber 250 mL   | 2           | No             | None         |              |
| Alkalinity  | Plastic 125 mL | 1           | No             | None         |              |
| Ammonia/COD | Plastic 250 mL | 1           | No             | H2SO4        |              |
| Chl/BrO/SO4 | Plastic 60 mL  | 1           | No             | None         |              |
| Mod. Bsln   | Plastic 250 mL | 1           | No             | HNO3         |              |
| Hardness    | Plastic 250 mL | 1           | No             | HNO3         |              |
| TDS         | Plastic 500 mL | 1           | No             | None         |              |

**PARSONS**  
**SURFACE WATER/SEEP SAMPLING RECORD**

**SITE NAME:** Rocky Ledge  
**PROJECT NUMBER:** 450619.04000  
**SAMPLING DATE / TIME:** 12/12/19; 13:15  
**WEATHER:** 30°F, Sunny  
**SAMPLERS:** Faith McDonald of Parsons  
Kristen Brooks of Parsons  
**SAMPLE ID:** 3-WES-006-001-04  
**SAMPLING METHOD:** Dipping using sample container  
**DEPTH OF SAMPLE:** Less than 4 inches

**DESCRIPTION OF SAMPLING POINT**

**LOCATION:** Slightly west of monitoring well OW-2 at bottom of slope  
**PHYSICAL APPEARANCE:** Standing water in wetlands-type vegetation, significant sheen and some iron floc  
**DEPTH TO BOTTOM:** Less than 4 inches  
**DRAINAGE DIRECTION:** South away from landfill slope  
**UPSTREAM FROM:** Forested area  
**DOWNSTREAM FROM:** Landfill cap and forested slope



**SAMPLE DESCRIPTION**

**COLOR:** Brown/orange  
**ODOR:** None  
**SUSPENDED MATTER:** Some organics and iron floc  
**OTHER:** Some sheen

**FIELD TESTS**

**FIELD TESTS LABEL:** N/A  
**TEMPERATURE:** N/A  
**pH:** N/A  
**CONDUCTIVITY:** N/A  
**REDOX:** N/A  
**DISSOLVED O2:** N/A  
**OTHER:** N/A

**SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY**

**ANALYZE FOR:** PFAS, VOCs, PAHs, 1,4-Dioxane, Metals/Hg, Hardness, Ammonia/COD, TOS, SO4/CHL/BRO, TDS, Alkalinity  
**QA/QC SAMPLE ID:** N/A  
**ANALYZE QA/QC SAMPLES FOR:** N/A  
**DATE/TIME REFRIGERATED:** Samples iced following collection  
**CHAIN OF CUSTODY NUMBER:** 3-WES-006-001  
**SHIPPED VIA:** Elmsford Fedex  
**LABORATORY:** Test America

**COMMENTS / MISCELLANEOUS**

**PARSONS**  
**SURFACE WATER/SEEP SAMPLING RECORD**

**SITE NAME:** Rocky Ledge  
**PROJECT NUMBER:** 450619.04000  
**SAMPLING DATE / TIME:** 12/12/19; 14:15  
**WEATHER:** 30°F, Sunny  
**SAMPLERS:** Faith McDonald of Parsons  
Kristen Brooks of Parsons  
**SAMPLE ID:** 3-WES-006-001-05  
**SAMPLING METHOD:** Dipping using sample container  
**DEPTH OF SAMPLE:** Less than 4 inches

**DESCRIPTION OF SAMPLING POINT**

**LOCATION:** East of monitoring well OW-1 at bottom of slope, near small stream  
**PHYSICAL APPEARANCE:** Still water near a small stream, wetlands-type vegetation, sheen and iron floc present  
**DEPTH TO BOTTOM:** Less than 4 inches  
**DRAINAGE DIRECTION:** South away from landfill slope and toward stream  
**UPSTREAM FROM:** Forested area, small stream  
**DOWNSTREAM FROM:** Landfill cap and forested slope

**SAMPLE DESCRIPTION**

**COLOR:** Brown/orange  
**ODOR:** None  
**SUSPENDED MATTER:** Some organics and iron floc  
**OTHER:** Some sheen

**FIELD TESTS**

**FIELD TESTS LABEL:** N/A  
**TEMPERATURE:** N/A **REDOX:** N/A  
**pH:** N/A **DISSOLVED O2:** N/A  
**CONDUCTIVITY:** N/A **OTHER:** N/A

**SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY**

**ANALYZE FOR:** PFAS, VOCs, PAHs, 1,4-Dioxane, Metals/Hg, Hardness, Ammonia/COD, TOS, SO4/CHL/BRO, TDS, Alkalinity  
**QA/QC SAMPLE ID:** N/A  
**ANALYZE QA/QC SAMPLES FOR:** N/A  
**DATE/TIME REFRIGERATED:** Samples iced following collection  
**CHAIN OF CUSTODY NUMBER:** 3-WES-006-001  
**SHIPPED VIA:** Elmsford Fedex  
**LABORATORY:** Test America

**COMMENTS / MISCELLANEOUS**

**PARSONS**  
**SURFACE WATER/SEEP SAMPLING RECORD**

**SITE NAME:** Rocky Ledge  
**PROJECT NUMBER:** 450619.04000  
**SAMPLING DATE / TIME:** 12/12/19; 15:45  
**WEATHER:** 30°F, Sunny  
**SAMPLERS:** Kristen Brooks of Parsons  
Faith McDonald of Parsons  
**SAMPLE ID:** 3-WES-006-001-06  
**SAMPLING METHOD:** Dipping using sample container  
**DEPTH OF SAMPLE:** Less than 6 inches

**DESCRIPTION OF SAMPLING POINT**

**LOCATION:** Along Stonewall Circle, downslope and east of OW-3 location (approx. 41.0634, -73.7494)  
**PHYSICAL APPEARANCE:** Standing water in wetlands-type vegetation, significant sheen and iron floc  
**DEPTH TO BOTTOM:** Less than 6 inches  
**DRAINAGE DIRECTION:** Toward culverted stream running beneath LF (southwest)  
**UPSTREAM FROM:** Culverted stream  
**DOWNSTREAM FROM:** Landfill cap, Stonewall Circle

**SAMPLE DESCRIPTION**

**COLOR:** Brown/orange  
**ODOR:** Organic/sulfur  
**SUSPENDED MATTER:** Organics and iron floc  
**OTHER:** Some sheen

**FIELD TESTS**

**FIELD TESTS LABEL:** N/A  
**TEMPERATURE:** N/A **REDOX:** N/A  
**pH:** N/A **DISSOLVED O2:** N/A  
**CONDUCTIVITY:** N/A **OTHER:** N/A

**SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY**

**ANALYZE FOR:** PFAS, VOCs, PAHs, 1,4-Dioxane, Metals/Hg, Hardness, Ammonia/COD, TOS, SO4/CHL/BRO, TDS, Alkalinity  
**QA/QC SAMPLE ID:** N/A  
**ANALYZE QA/QC SAMPLES FOR:** N/A  
**DATE/TIME REFRIGERATED:** Samples iced following collection  
**CHAIN OF CUSTODY NUMBER:** 3-WES-006-001  
**SHIPPED VIA:** Elmsford Fedex  
**LABORATORY:** Test America

**COMMENTS / MISCELLANEOUS**

## **ATTACHMENT 4**

### **ANALYTICAL LABORATORY LEVEL II DATA DELIVERABLE**

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-164158-1  
Client Project/Site: 3-WES-006 Rocky Ledge

For:  
Parsons Corporation  
301 Plainfield Road  
Suite 350  
Syracuse, New York 13212

Attn: Sara Weishaupt



Authorized for release by:  
1/10/2020 3:00:43 PM  
Alexander Gilbert, Project Management Assistant I  
[alexander.gilbert@testamericainc.com](mailto:alexander.gilbert@testamericainc.com)

Designee for  
Brian Fischer, Manager of Project Management  
(716)504-9835  
[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| E         | Result exceeded calibration range.                                                                             |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### LCMS

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | Isotope Dilution analyte is outside acceptance limits.                                                         |
| *         | RPD of the LCS and LCSD exceeds the control limits                                                             |
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                                                                 |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B         | Compound was found in the blank and sample.                                                                                                               |
| E         | Result exceeded calibration range.                                                                                                                        |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |

Eurofins TestAmerica, Buffalo

## Definitions/Glossary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

### Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|-----------------------------------------------------------------------------|
| TEF          | Toxicity Equivalent Factor (Dioxin)                                         |
| TEQ          | Toxicity Equivalent Quotient (Dioxin)                                       |

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# Case Narrative

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Job ID: 480-164158-1**

**Laboratory: Eurofins TestAmerica, Buffalo**

## Narrative

### Job Narrative 480-164158-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/13/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.8° C, 2.9° C and 3.3° C.

#### GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-509985 recovered outside control limits for the following analytes: Iodomethane, Acetone, and Acrylonitrile. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-509985 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following sample is impacted: 3-WES-006-001-07 (480-164158-7).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 3-WES-006-001-01 (480-164158-1) and 3-WES-006-001-04 (480-164158-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: 3-WES-006-001-05 (480-164158-5). Sample pH is 7.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 3-WES-006-001-05 (480-164158-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample 3-WES-006-001-04 (480-164158-4) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: 3-WES-006-001-01 (480-164158-1). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The breakdown of 4,4'-DDT in the tuning evaluation exceeded 20%. Breakdown is not a criteria of the method but rather an internal check performed by the laboratory to evaluate the peak shape of 1,4-Dioxane and 1,4-Dioxane-d8. No adverse performance was observed and QC recoveries were in control. The data have been reported. (DFTPP 480-511083/2).

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample 3-WES-006-001-01 (480-164158-1) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D\_LL\_PAH: The following samples were diluted due to the nature of the sample matrix: 3-WES-006-001-05 (480-164158-5) and 3-WES-006-001-06 (480-164158-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### HPLC/IC

# Case Narrative

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Job ID: 480-164158-1 (Continued)

### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: 3-WES-006-001-01 (480-164158-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The continuing calibration verification (CCV) associated with batch 480-510364 recovered above the upper control limit for Bromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 3-WES-006-001-06 (480-164158-6).

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: 3-WES-006-001-04 (480-164158-4), 3-WES-006-001-05 (480-164158-5) and 3-WES-006-001-06 (480-164158-6). Elevated reporting limits (RLs) are provided.

Method 300.0: The laboratory control sample (LCS) for analytical batch 480-510364 recovered outside control limits for the following analyte: Bromide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted: 3-WES-006-001-06 (480-164158-6).

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: 3-WES-006-001-04 (480-164158-4) and 3-WES-006-001-05 (480-164158-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): 3-WES-006-001-05 (480-164158-5). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a <1:3> dilution, which maintained the purple color during digestion.

Method 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Silver, Arsenic, Cadmium, Chromium, Manganese, Nickel, Lead, Antimony, Selenium, and Vanadium: 3-WES-006-001-04 (480-164158-4) and 3-WES-006-001-05 (480-164158-5). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the nature of the sample matrix: 3-WES-006-001-05 (480-164158-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### LCMS

Method 537 (modified): The method blank for preparation batch 200-150808 and analytical batch 200-150850 contained Perfluorobutanoic acid (PFBA), Perfluorononanoic acid (PFNA) and Perfluoroundecanoic acid (PFUnA) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 200-150808 and analytical batch 200-150850 recovered outside control limits for the following analytes: N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA).

Method 537 (modified): M2-6:2 FTS and M2-8:2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: 3-WES-006-001-01 (480-164158-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): d3-NMeFOSAA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: 3-WES-006-001-05 (480-164158-5). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

Method 537 (modified): d3-NMeFOSAA, d5-NEtFOSAA, 13C2 PFDA and 13C2 PFUnA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: 3-WES-006-001-06 (480-164158-6). Generally, data quality is not

## Case Narrative

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

### Job ID: 480-164158-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 3-WES-006-001-01 (480-164158-1), 3-WES-006-001-04 (480-164158-4) and 3-WES-006-001-06 (480-164158-6). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: 3-WES-006-001-04 (480-164158-4) and 3-WES-006-001-06 (480-164158-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-01

Lab Sample ID: 480-164158-1

| Analyte                                                  | Result | Qualifier | RL     | MDL     | Unit | Dil | Fac | D | Method         | Prep Type |
|----------------------------------------------------------|--------|-----------|--------|---------|------|-----|-----|---|----------------|-----------|
| 1,4-Dioxane                                              | 7.8    | E         | 1.0    | 0.51    | ug/L | 5   |     |   | 8270D SIM ID   | Total/NA  |
| Acenaphthene                                             | 11     |           | 0.50   | 0.30    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| Anthracene                                               | 0.44   | J         | 0.50   | 0.39    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| Fluoranthene                                             | 0.63   |           | 0.50   | 0.36    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| Fluorene                                                 | 7.4    |           | 0.50   | 0.37    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| Naphthalene                                              | 4.0    |           | 0.50   | 0.42    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| Phenanthrene                                             | 0.39   | J         | 0.50   | 0.38    | ug/L | 1   |     |   | 8270D_LL_PAH   | Total/NA  |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 9.3    | J         | 19     | 5.3     | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 4.6    | J         | 19     | 1.4     | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 6.4    | J *       | 19     | 1.6     | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)                      | 14     |           | 1.9    | 0.47    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorobutanoic acid (PFBA)                            | 110    | B         | 1.9    | 0.96    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)                            | 1.2    | J         | 1.9    | 0.74    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 1.5    | J         | 1.9    | 0.91    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)                          | 36     |           | 1.9    | 0.88    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)                     | 110    |           | 1.9    | 0.77    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)                           | 70     |           | 1.9    | 0.73    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)                            | 7.1    | B         | 1.9    | 0.26    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)                      | 61     |           | 1.9    | 0.59    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)                            | 140    |           | 1.9    | 0.78    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)                          | 36     |           | 1.9    | 0.61    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)                         | 0.83   | J B       | 1.9    | 0.75    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Barium                                                   | 0.46   |           | 0.0020 | 0.00070 | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Boron                                                    | 2.0    |           | 0.020  | 0.0040  | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Calcium                                                  | 234    |           | 0.50   | 0.10    | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Iron                                                     | 20.9   |           | 0.050  | 0.019   | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Magnesium                                                | 98.8   |           | 0.20   | 0.043   | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Manganese                                                | 1.2    | B         | 0.0030 | 0.00040 | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Potassium                                                | 31.2   |           | 0.50   | 0.10    | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Sodium                                                   | 122    |           | 1.0    | 0.32    | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Zinc                                                     | 0.0027 | J         | 0.010  | 0.0015  | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Bromide                                                  | 2.3    |           | 1.0    | 0.37    | mg/L | 5   |     |   | 300.0          | Total/NA  |
| Chloride                                                 | 110    |           | 2.5    | 1.4     | mg/L | 5   |     |   | 300.0          | Total/NA  |
| Sulfate                                                  | 15.7   |           | 10.0   | 1.7     | mg/L | 5   |     |   | 300.0          | Total/NA  |
| Ammonia                                                  | 11.1   |           | 0.20   | 0.090   | mg/L | 10  |     |   | 350.1          | Total/NA  |
| Chemical Oxygen Demand                                   | 88.5   |           | 10.0   | 5.0     | mg/L | 1   |     |   | 410.4          | Total/NA  |
| Total Organic Carbon                                     | 33.8   |           | 1.0    | 0.43    | mg/L | 1   |     |   | 9060A          | Total/NA  |
| Alkalinity, Total                                        | 1030   |           | 5.0    | 0.79    | mg/L | 1   |     |   | SM 2320B       | Total/NA  |
| Total hardness as CaCO3                                  | 950    |           | 10.0   | 2.6     | mg/L | 1   |     |   | SM 2340C       | Total/NA  |
| Total Dissolved Solids                                   | 972    |           | 20.0   | 8.0     | mg/L | 1   |     |   | SM 2540C       | Total/NA  |

Client Sample ID: 3-WES-006-001-02

Lab Sample ID: 480-164158-2

No Detections.

Client Sample ID: 3-WES-006-001-03

Lab Sample ID: 480-164158-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-04

Lab Sample ID: 480-164158-4

| Analyte                                                  | Result  | Qualifier | RL      | MDL     | Unit | Dil Fac | D | Method         | Prep Type |
|----------------------------------------------------------|---------|-----------|---------|---------|------|---------|---|----------------|-----------|
| 1,4-Dioxane                                              | 3.2     | E         | 0.23    | 0.11    | ug/L | 1       |   | 8270D SIM ID   | Total/NA  |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 6.3     | J         | 18      | 4.9     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 1.5     | J *       | 18      | 1.5     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)                      | 12      |           | 1.8     | 0.44    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanoic acid (PFBA)                            | 68      | B         | 1.8     | 0.90    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)                            | 1.1     | J         | 1.8     | 0.69    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 1.3     | J         | 1.8     | 0.85    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)                          | 23      |           | 1.8     | 0.81    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)                     | 79      |           | 1.8     | 0.72    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)                           | 45      |           | 1.8     | 0.68    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)                            | 5.2     | B         | 1.8     | 0.24    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)                      | 63      |           | 1.8     | 0.55    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)                            | 98      |           | 1.8     | 0.73    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)                          | 26      |           | 1.8     | 0.56    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Aluminum                                                 | 36.3    |           | 0.20    | 0.060   | mg/L | 1       |   | 6010C          | Total/NA  |
| Antimony                                                 | 0.044   |           | 0.040   | 0.014   | mg/L | 2       |   | 6010C          | Total/NA  |
| Arsenic                                                  | 0.057   |           | 0.030   | 0.011   | mg/L | 2       |   | 6010C          | Total/NA  |
| Barium                                                   | 3.4     |           | 0.0020  | 0.00070 | mg/L | 1       |   | 6010C          | Total/NA  |
| Beryllium                                                | 0.0014  | J         | 0.0020  | 0.00030 | mg/L | 1       |   | 6010C          | Total/NA  |
| Boron                                                    | 0.98    |           | 0.020   | 0.0040  | mg/L | 1       |   | 6010C          | Total/NA  |
| Calcium                                                  | 434     |           | 0.50    | 0.10    | mg/L | 1       |   | 6010C          | Total/NA  |
| Chromium                                                 | 0.073   |           | 0.0080  | 0.0020  | mg/L | 2       |   | 6010C          | Total/NA  |
| Cobalt                                                   | 0.025   |           | 0.0040  | 0.00063 | mg/L | 1       |   | 6010C          | Total/NA  |
| Copper                                                   | 0.16    |           | 0.010   | 0.0016  | mg/L | 1       |   | 6010C          | Total/NA  |
| Iron                                                     | 621     |           | 0.10    | 0.039   | mg/L | 2       |   | 6010C          | Total/NA  |
| Lead                                                     | 0.30    |           | 0.020   | 0.0060  | mg/L | 2       |   | 6010C          | Total/NA  |
| Magnesium                                                | 59.9    |           | 0.20    | 0.043   | mg/L | 1       |   | 6010C          | Total/NA  |
| Manganese                                                | 7.9     | B         | 0.0060  | 0.00080 | mg/L | 2       |   | 6010C          | Total/NA  |
| Nickel                                                   | 0.065   |           | 0.020   | 0.0025  | mg/L | 2       |   | 6010C          | Total/NA  |
| Potassium                                                | 24.1    |           | 0.50    | 0.10    | mg/L | 1       |   | 6010C          | Total/NA  |
| Sodium                                                   | 77.0    |           | 1.0     | 0.32    | mg/L | 1       |   | 6010C          | Total/NA  |
| Vanadium                                                 | 0.13    |           | 0.010   | 0.0030  | mg/L | 2       |   | 6010C          | Total/NA  |
| Zinc                                                     | 0.63    |           | 0.010   | 0.0015  | mg/L | 1       |   | 6010C          | Total/NA  |
| Mercury                                                  | 0.00067 |           | 0.00020 | 0.00012 | mg/L | 1       |   | 7470A          | Total/NA  |
| Bromide                                                  | 0.62    | J         | 1.0     | 0.37    | mg/L | 5       |   | 300.0          | Total/NA  |
| Chloride                                                 | 95.6    |           | 2.5     | 1.4     | mg/L | 5       |   | 300.0          | Total/NA  |
| Sulfate                                                  | 87.5    |           | 10.0    | 1.7     | mg/L | 5       |   | 300.0          | Total/NA  |
| Ammonia                                                  | 3.6     |           | 0.040   | 0.018   | mg/L | 2       |   | 350.1          | Total/NA  |
| Chemical Oxygen Demand                                   | 6.7     | J         | 10.0    | 5.0     | mg/L | 1       |   | 410.4          | Total/NA  |
| Total Organic Carbon                                     | 11.7    |           | 1.0     | 0.43    | mg/L | 1       |   | 9060A          | Total/NA  |
| Alkalinity, Total                                        | 694     | B         | 5.0     | 0.79    | mg/L | 1       |   | SM 2320B       | Total/NA  |
| Total hardness as CaCO3                                  | 1220    |           | 10.0    | 2.6     | mg/L | 1       |   | SM 2340C       | Total/NA  |
| Total Dissolved Solids                                   | 820     |           | 20.0    | 8.0     | mg/L | 1       |   | SM 2540C       | Total/NA  |

Client Sample ID: 3-WES-006-001-05

Lab Sample ID: 480-164158-5

| Analyte     | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method       | Prep Type |
|-------------|--------|-----------|------|------|------|---------|---|--------------|-----------|
| Acetone     | 31     | J         | 40   | 12   | ug/L | 4       |   | 8260C        | Total/NA  |
| 1,4-Dioxane | 0.43   |           | 0.22 | 0.11 | ug/L | 1       |   | 8270D SIM ID | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-05 (Continued)

Lab Sample ID: 480-164158-5

| Analyte                                                  | Result | Qualifier | RL      | MDL     | Unit | Dil | Fac | D | Method         | Prep Type |
|----------------------------------------------------------|--------|-----------|---------|---------|------|-----|-----|---|----------------|-----------|
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 5.3    | J         | 18      | 1.4     | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2.6    | J *       | 18      | 1.5     | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)                      | 4.8    |           | 1.8     | 0.44    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorobutanoic acid (PFBA)                            | 13     | B         | 1.8     | 0.91    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)                            | 1.6    | J         | 1.8     | 0.70    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 2.3    |           | 1.8     | 0.86    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)                          | 8.9    |           | 1.8     | 0.83    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)                     | 31     |           | 1.8     | 0.73    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)                           | 15     |           | 1.8     | 0.69    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)                            | 3.0    | B         | 1.8     | 0.24    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)                      | 240    |           | 1.8     | 0.55    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)                            | 23     |           | 1.8     | 0.73    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)                          | 13     |           | 1.8     | 0.57    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)                         | 1.0    | J B       | 1.8     | 0.71    | ng/L | 1   |     |   | 537 (modified) | Total/NA  |
| Aluminum                                                 | 229    |           | 1.0     | 0.30    | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Antimony                                                 | 0.10   |           | 0.10    | 0.034   | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Arsenic                                                  | 0.21   |           | 0.075   | 0.028   | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Barium                                                   | 10.4   |           | 0.010   | 0.0035  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Beryllium                                                | 0.012  |           | 0.010   | 0.0015  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Boron                                                    | 0.47   |           | 0.020   | 0.0040  | mg/L | 1   |     |   | 6010C          | Total/NA  |
| Cadmium                                                  | 0.017  |           | 0.010   | 0.0025  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Calcium                                                  | 379    |           | 2.5     | 0.50    | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Chromium                                                 | 0.49   |           | 0.020   | 0.0050  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Cobalt                                                   | 0.21   |           | 0.020   | 0.0032  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Copper                                                   | 1.2    |           | 0.050   | 0.0080  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Iron                                                     | 1570   |           | 0.25    | 0.097   | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Lead                                                     | 2.6    |           | 0.050   | 0.015   | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Magnesium                                                | 108    |           | 1.0     | 0.22    | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Manganese                                                | 71.9   | B         | 0.015   | 0.0020  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Nickel                                                   | 0.48   |           | 0.050   | 0.0063  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Potassium                                                | 52.3   |           | 2.5     | 0.50    | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Sodium                                                   | 34.5   |           | 5.0     | 1.6     | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Vanadium                                                 | 0.77   |           | 0.025   | 0.0075  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Zinc                                                     | 5.8    |           | 0.050   | 0.0075  | mg/L | 5   |     |   | 6010C          | Total/NA  |
| Mercury                                                  | 0.0033 |           | 0.00060 | 0.00036 | mg/L | 1   |     |   | 7470A          | Total/NA  |
| Bromide                                                  | 0.40   |           | 0.40    | 0.15    | mg/L | 2   |     |   | 300.0          | Total/NA  |
| Chloride                                                 | 107    |           | 1.0     | 0.56    | mg/L | 2   |     |   | 300.0          | Total/NA  |
| Sulfate                                                  | 30.6   |           | 4.0     | 0.70    | mg/L | 2   |     |   | 300.0          | Total/NA  |
| Ammonia                                                  | 0.75   |           | 0.020   | 0.0090  | mg/L | 1   |     |   | 350.1          | Total/NA  |
| Chemical Oxygen Demand                                   | 58.6   |           | 10.0    | 5.0     | mg/L | 1   |     |   | 410.4          | Total/NA  |
| Total Organic Carbon                                     | 5.1    |           | 1.0     | 0.43    | mg/L | 1   |     |   | 9060A          | Total/NA  |
| Alkalinity, Total                                        | 224    | B         | 5.0     | 0.79    | mg/L | 1   |     |   | SM 2320B       | Total/NA  |
| Total hardness as CaCO3                                  | 780    |           | 20.0    | 5.3     | mg/L | 1   |     |   | SM 2340C       | Total/NA  |
| Total Dissolved Solids                                   | 146    |           | 10.0    | 4.0     | mg/L | 1   |     |   | SM 2540C       | Total/NA  |

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

| Analyte    | Result | Qualifier | RL  | MDL  | Unit | Dil | Fac | D | Method | Prep Type |
|------------|--------|-----------|-----|------|------|-----|-----|---|--------|-----------|
| Chloroform | 0.48   | J         | 1.0 | 0.34 | ug/L | 1   |     |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-06 (Continued)

Lab Sample ID: 480-164158-6

| Analyte                              | Result  | Qualifier | RL      | MDL     | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|---------|-----------|---------|---------|------|---------|---|----------------|-----------|
| Perfluorobutanesulfonic acid (PFBS)  | 3.2     |           | 1.8     | 0.44    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanoic acid (PFBA)        | 7.7     | B         | 1.8     | 0.90    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)        | 1.2     | J         | 1.8     | 0.70    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 2.6     |           | 1.8     | 0.82    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 3.5     |           | 1.8     | 0.72    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 3.5     |           | 1.8     | 0.69    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)        | 1.4     | J B       | 1.8     | 0.24    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 18      |           | 1.8     | 0.55    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 7.4     |           | 1.8     | 0.73    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 3.9     |           | 1.8     | 0.57    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)     | 0.89    | J B       | 1.8     | 0.70    | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Aluminum                             | 48.2    |           | 0.20    | 0.060   | mg/L | 1       |   | 6010C          | Total/NA  |
| Arsenic                              | 0.045   |           | 0.015   | 0.0056  | mg/L | 1       |   | 6010C          | Total/NA  |
| Barium                               | 0.69    |           | 0.0020  | 0.00070 | mg/L | 1       |   | 6010C          | Total/NA  |
| Beryllium                            | 0.0014  | J         | 0.0020  | 0.00030 | mg/L | 1       |   | 6010C          | Total/NA  |
| Boron                                | 0.062   |           | 0.020   | 0.0040  | mg/L | 1       |   | 6010C          | Total/NA  |
| Cadmium                              | 0.0029  |           | 0.0020  | 0.00050 | mg/L | 1       |   | 6010C          | Total/NA  |
| Calcium                              | 93.6    |           | 0.50    | 0.10    | mg/L | 1       |   | 6010C          | Total/NA  |
| Chromium                             | 0.056   |           | 0.0040  | 0.0010  | mg/L | 1       |   | 6010C          | Total/NA  |
| Cobalt                               | 0.025   |           | 0.0040  | 0.00063 | mg/L | 1       |   | 6010C          | Total/NA  |
| Copper                               | 0.079   |           | 0.010   | 0.0016  | mg/L | 1       |   | 6010C          | Total/NA  |
| Iron                                 | 161     |           | 0.050   | 0.019   | mg/L | 1       |   | 6010C          | Total/NA  |
| Lead                                 | 0.27    |           | 0.010   | 0.0030  | mg/L | 1       |   | 6010C          | Total/NA  |
| Magnesium                            | 23.1    |           | 0.20    | 0.043   | mg/L | 1       |   | 6010C          | Total/NA  |
| Manganese                            | 1.4     | B         | 0.0030  | 0.00040 | mg/L | 1       |   | 6010C          | Total/NA  |
| Nickel                               | 0.061   |           | 0.010   | 0.0013  | mg/L | 1       |   | 6010C          | Total/NA  |
| Potassium                            | 12.1    |           | 0.50    | 0.10    | mg/L | 1       |   | 6010C          | Total/NA  |
| Sodium                               | 267     |           | 1.0     | 0.32    | mg/L | 1       |   | 6010C          | Total/NA  |
| Vanadium                             | 0.12    |           | 0.0050  | 0.0015  | mg/L | 1       |   | 6010C          | Total/NA  |
| Zinc                                 | 0.31    |           | 0.010   | 0.0015  | mg/L | 1       |   | 6010C          | Total/NA  |
| Mercury                              | 0.00060 |           | 0.00020 | 0.00012 | mg/L | 1       |   | 7470A          | Total/NA  |
| Chloride                             | 680     |           | 5.0     | 2.8     | mg/L | 10      |   | 300.0          | Total/NA  |
| Sulfate                              | 53.4    |           | 20.0    | 3.5     | mg/L | 10      |   | 300.0          | Total/NA  |
| Ammonia                              | 0.22    |           | 0.020   | 0.0090  | mg/L | 1       |   | 350.1          | Total/NA  |
| Chemical Oxygen Demand               | 119     |           | 10.0    | 5.0     | mg/L | 1       |   | 410.4          | Total/NA  |
| Total Organic Carbon                 | 12.3    |           | 1.0     | 0.43    | mg/L | 1       |   | 9060A          | Total/NA  |
| Alkalinity, Total                    | 35.8    | B         | 5.0     | 0.79    | mg/L | 1       |   | SM 2320B       | Total/NA  |
| Total hardness as CaCO3              | 240     |           | 10.0    | 2.6     | mg/L | 1       |   | SM 2340C       | Total/NA  |
| Total Dissolved Solids               | 1140    |           | 20.0    | 8.0     | mg/L | 1       |   | SM 2540C       | Total/NA  |

Client Sample ID: 3-WES-006-001-07

Lab Sample ID: 480-164158-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-01

Lab Sample ID: 480-164158-1

Date Collected: 12/12/19 12:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND     |           | 10  | 3.5 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,1,1-Trichloroethane       | ND     |           | 10  | 8.2 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 10  | 2.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,1,2-Trichloroethane       | ND     |           | 10  | 2.3 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,1-Dichloroethane          | ND     |           | 10  | 3.8 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,1-Dichloroethene          | ND     |           | 10  | 2.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2,3-Trichloropropane      | ND     |           | 10  | 8.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 10  | 3.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2-Dibromoethane           | ND     |           | 10  | 7.3 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2-Dichlorobenzene         | ND     |           | 10  | 7.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2-Dichloroethane          | ND     |           | 10  | 2.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,2-Dichloropropane         | ND     |           | 10  | 7.2 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 1,4-Dichlorobenzene         | ND     |           | 10  | 8.4 | ug/L |   |          | 12/18/19 14:34 | 10      |
| 2-Butanone (MEK)            | ND     |           | 100 | 13  | ug/L |   |          | 12/18/19 14:34 | 10      |
| 2-Hexanone                  | ND     |           | 50  | 12  | ug/L |   |          | 12/18/19 14:34 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 50  | 21  | ug/L |   |          | 12/18/19 14:34 | 10      |
| Acetone                     | ND     |           | 100 | 30  | ug/L |   |          | 12/18/19 14:34 | 10      |
| Acrylonitrile               | ND     |           | 50  | 8.3 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Benzene                     | ND     |           | 10  | 4.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Bromodichloromethane        | ND     |           | 10  | 3.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Bromoform                   | ND     |           | 10  | 2.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Bromomethane                | ND     |           | 10  | 6.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Carbon disulfide            | ND     |           | 10  | 1.9 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Carbon tetrachloride        | ND     |           | 10  | 2.7 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Chlorobenzene               | ND     |           | 10  | 7.5 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Chlorobromomethane          | ND     |           | 10  | 8.7 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Chloroethane                | ND     |           | 10  | 3.2 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Chloroform                  | ND     |           | 10  | 3.4 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Chloromethane               | ND     |           | 10  | 3.5 | ug/L |   |          | 12/18/19 14:34 | 10      |
| cis-1,2-Dichloroethene      | ND     |           | 10  | 8.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| cis-1,3-Dichloropropene     | ND     |           | 10  | 3.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Dibromochloromethane        | ND     |           | 10  | 3.2 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Dibromomethane              | ND     |           | 10  | 4.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Ethylbenzene                | ND     |           | 10  | 7.4 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Iodomethane                 | ND     |           | 10  | 3.0 | ug/L |   |          | 12/18/19 14:34 | 10      |
| m,p-Xylene                  | ND     |           | 20  | 6.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Methylene Chloride          | ND     |           | 10  | 4.4 | ug/L |   |          | 12/18/19 14:34 | 10      |
| o-Xylene                    | ND     |           | 10  | 7.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Styrene                     | ND     |           | 10  | 7.3 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Tetrachloroethene           | ND     |           | 10  | 3.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Toluene                     | ND     |           | 10  | 5.1 | ug/L |   |          | 12/18/19 14:34 | 10      |
| trans-1,2-Dichloroethene    | ND     |           | 10  | 9.0 | ug/L |   |          | 12/18/19 14:34 | 10      |
| trans-1,3-Dichloropropene   | ND     |           | 10  | 3.7 | ug/L |   |          | 12/18/19 14:34 | 10      |
| trans-1,4-Dichloro-2-butene | ND     |           | 10  | 2.2 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Trichloroethene             | ND     |           | 10  | 4.6 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Trichlorofluoromethane      | ND     |           | 10  | 8.8 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Vinyl acetate               | ND     |           | 50  | 8.5 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Vinyl chloride              | ND     |           | 10  | 9.0 | ug/L |   |          | 12/18/19 14:34 | 10      |
| Xylenes, Total              | ND     |           | 20  | 6.6 | ug/L |   |          | 12/18/19 14:34 | 10      |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-01

Lab Sample ID: 480-164158-1

Date Collected: 12/12/19 12:00

Matrix: Water

Date Received: 12/13/19 09:00

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 77 - 120 |          | 12/18/19 14:34 | 10      |
| 4-Bromofluorobenzene (Surr)  | 104       |           | 73 - 120 |          | 12/18/19 14:34 | 10      |
| Dibromofluoromethane (Surr)  | 102       |           | 75 - 123 |          | 12/18/19 14:34 | 10      |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 12/18/19 14:34 | 10      |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 7.8       | E         | 1.0      | 0.51 | ug/L |   | 12/17/19 08:31 | 12/19/19 13:55 | 5       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 27        |           | 15 - 110 |      |      |   | 12/17/19 08:31 | 12/19/19 13:55 | 5       |

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte                | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Acenaphthene           | 11        |           | 0.50     | 0.30  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Acenaphthylene         | ND        |           | 0.50     | 0.34  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Anthracene             | 0.44      | J         | 0.50     | 0.39  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Benzo[a]anthracene     | ND        |           | 0.50     | 0.40  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Benzo[a]pyrene         | ND        |           | 0.50     | 0.33  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Benzo[b]fluoranthene   | ND        |           | 0.50     | 0.30  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Benzo[g,h,i]perylene   | ND        |           | 0.50     | 0.37  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Benzo[k]fluoranthene   | ND        |           | 0.50     | 0.085 | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Chrysene               | ND        |           | 0.50     | 0.32  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Dibenz(a,h)anthracene  | ND        |           | 0.50     | 0.33  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Fluoranthene           | 0.63      |           | 0.50     | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Fluorene               | 7.4       |           | 0.50     | 0.37  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 0.50     | 0.44  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Naphthalene            | 4.0       |           | 0.50     | 0.42  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Phenanthrene           | 0.39      | J         | 0.50     | 0.38  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Pyrene                 | ND        |           | 0.50     | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 98        |           | 48 - 120 |       |      |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| Nitrobenzene-d5        | 98        |           | 46 - 120 |       |      |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |
| p-Terphenyl-d14        | 58        |           | 24 - 136 |       |      |   | 12/16/19 08:59 | 12/21/19 12:47 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 19  | 2.8  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 9.3    | J         | 19  | 5.3  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 4.6    | J         | 19  | 1.4  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 6.4    | J *       | 19  | 1.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 14     |           | 1.9 | 0.47 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorobutanoic acid (PFBA)                            | 110    | B         | 1.9 | 0.96 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 | 0.87 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 1.2    | J         | 1.9 | 0.74 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 | 0.57 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-01

Lab Sample ID: 480-164158-1

Date Collected: 12/12/19 12:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                               | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluoroheptanesulfonic Acid (PFHpS) | 1.5       | J         | 1.9      | 0.91 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluoroheptanoic acid (PFHpA)       | 36        |           | 1.9      | 0.88 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)  | 110       |           | 1.9      | 0.77 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorohexanoic acid (PFHxA)        | 70        |           | 1.9      | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorononanoic acid (PFNA)         | 7.1       | B         | 1.9      | 0.26 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorooctanesulfonamide (PFOSA)    | ND        |           | 9.6      | 9.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorooctanesulfonic acid (PFOS)   | 61        |           | 1.9      | 0.59 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorooctanoic acid (PFOA)         | 140       |           | 1.9      | 0.78 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluoropentanoic acid (PFPeA)       | 36        |           | 1.9      | 0.61 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorotetradecanoic acid (PFTeA)   | ND        |           | 1.9      | 0.89 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluorotridecanoic acid (PFTriA)    | ND        |           | 1.9      | 0.58 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Perfluoroundecanoic acid (PFUnA)      | 0.83      | J B       | 1.9      | 0.75 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| Isotope Dilution                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C2 PFDA                             | 113       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C2 PFDaA                            | 109       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C2 PFHxA                            | 93        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C2 PFUnA                            | 114       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C2 PFTeDA                           | 119       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C4 PFBA                             | 46        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C4 PFOA                             | 110       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C4 PFOS                             | 105       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C4 PFHpA                            | 104       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C5 PFNA                             | 101       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C5 PFPeA                            | 82        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 13C8 FOSA                             | 79        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| 18O2 PFHxS                            | 113       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| d3-NMeFOSAA                           | 93        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| d5-NEtFOSAA                           | 126       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| M2-6:2 FTS                            | 158       | *         | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |
| M2-8:2 FTS                            | 165       | *         | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:37 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:33 | 1       |
| Barium    | 0.46   |           | 0.0020 | 0.00070 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Beryllium | ND     |           | 0.0020 | 0.00030 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Boron     | 2.0    |           | 0.020  | 0.0040  | mg/L |   | 12/16/19 10:23 | 12/23/19 17:11 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Calcium   | 234    |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Chromium  | ND     |           | 0.0040 | 0.0010  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:33 | 1       |
| Cobalt    | ND     |           | 0.0040 | 0.00063 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Copper    | ND     |           | 0.010  | 0.0016  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Iron      | 20.9   |           | 0.050  | 0.019   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Lead      | ND     |           | 0.010  | 0.0030  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-01

Lab Sample ID: 480-164158-1

Date Collected: 12/12/19 12:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 6010C - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Magnesium | 98.8   |           | 0.20   | 0.043   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Manganese | 1.2    | B         | 0.0030 | 0.00040 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Potassium | 31.2   |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:33 | 1       |
| Silver    | ND     |           | 0.0060 | 0.0017  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Sodium    | 122    |           | 1.0    | 0.32    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Vanadium  | ND     |           | 0.0050 | 0.0015  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:11 | 1       |
| Zinc      | 0.0027 | J         | 0.010  | 0.0015  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:33 | 1       |

## Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00020 | 0.00012 | mg/L |   | 12/23/19 12:08 | 12/23/19 16:30 | 1       |

## General Chemistry

| Analyte                 | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Bromide                 | 2.3    |           | 1.0  | 0.37  | mg/L |   |          | 12/17/19 00:05 | 5       |
| Chloride                | 110    |           | 2.5  | 1.4   | mg/L |   |          | 12/17/19 00:05 | 5       |
| Sulfate                 | 15.7   |           | 10.0 | 1.7   | mg/L |   |          | 12/17/19 00:05 | 5       |
| Ammonia                 | 11.1   |           | 0.20 | 0.090 | mg/L |   |          | 12/16/19 13:08 | 10      |
| Chemical Oxygen Demand  | 88.5   |           | 10.0 | 5.0   | mg/L |   |          | 12/14/19 18:47 | 1       |
| Total Organic Carbon    | 33.8   |           | 1.0  | 0.43  | mg/L |   |          | 12/25/19 22:17 | 1       |
| Alkalinity, Total       | 1030   |           | 5.0  | 0.79  | mg/L |   |          | 12/19/19 16:14 | 1       |
| Total hardness as CaCO3 | 950    |           | 10.0 | 2.6   | mg/L |   |          | 12/18/19 09:42 | 1       |
| Total Dissolved Solids  | 972    |           | 20.0 | 8.0   | mg/L |   |          | 12/17/19 13:44 | 1       |

Client Sample ID: 3-WES-006-001-02

Lab Sample ID: 480-164158-2

Date Collected: 12/12/19 13:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 19  | 2.8  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | ND     |           | 19  | 5.2  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  | 1.4  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     | *         | 19  | 1.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 | 0.47 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorobutanoic acid (PFBA)                            | ND     |           | 1.9 | 0.95 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 | 0.86 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 | 0.56 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 | 0.91 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 | 0.87 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 | 0.76 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 1.9 | 0.72 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 | 0.26 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-02

Lab Sample ID: 480-164158-2

Date Collected: 12/12/19 13:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                             | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonamide (PFOSA)  | ND        |           | 9.5      | 9.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorooctanesulfonic acid (PFOS) | ND        |           | 1.9      | 0.58 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorooctanoic acid (PFOA)       | ND        |           | 1.9      | 0.77 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluoropentanoic acid (PFPeA)     | ND        |           | 1.9      | 0.60 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorotetradecanoic acid (PFTeA) | ND        |           | 1.9      | 0.88 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluorotridecanoic acid (PFTrIA)  | ND        |           | 1.9      | 0.57 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Perfluoroundecanoic acid (PFUnA)    | ND        |           | 1.9      | 0.74 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| Isotope Dilution                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C2 PFDA                           | 96        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C2 PFDoA                          | 77        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C2 PFHxA                          | 115       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C2 PFUnA                          | 88        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C2 PFTeDA                         | 80        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C4 PFBA                           | 101       |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C4 PFOA                           | 107       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C4 PFOS                           | 102       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C4 PFHpA                          | 112       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C5 PFNA                           | 104       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C5 PFPeA                          | 119       |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 13C8 FOSA                           | 63        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| 18O2 PFHxS                          | 104       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| d3-NMeFOSAA                         | 79        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| d5-NEtFOSAA                         | 80        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| M2-6:2 FTS                          | 83        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |
| M2-8:2 FTS                          | 99        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:45 | 1       |

Client Sample ID: 3-WES-006-001-03

Lab Sample ID: 480-164158-3

Date Collected: 12/12/19 13:05

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 21  | 3.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | ND     |           | 21  | 5.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 21  | 1.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     | *         | 21  | 1.7  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 2.1 | 0.50 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorobutanoic acid (PFBA)                            | ND     |           | 2.1 | 1.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 2.1 | 0.92 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 2.1 | 0.79 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 2.1 | 0.61 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 2.1 | 0.98 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 2.1 | 0.93 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 2.1 | 0.82 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 2.1 | 0.78 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 2.1 | 0.28 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Client Sample ID: 3-WES-006-001-03**

**Lab Sample ID: 480-164158-3**

**Date Collected: 12/12/19 13:05**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                             | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonamide (PFOSA)  | ND        |           | 10       | 10   | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorooctanesulfonic acid (PFOS) | ND        |           | 2.1      | 0.63 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorooctanoic acid (PFOA)       | ND        |           | 2.1      | 0.83 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluoropentanoic acid (PFPeA)     | ND        |           | 2.1      | 0.65 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorotetradecanoic acid (PFTeA) | ND        |           | 2.1      | 0.94 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluorotridecanoic acid (PFTrIA)  | ND        |           | 2.1      | 0.62 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Perfluoroundecanoic acid (PFUnA)    | ND        |           | 2.1      | 0.80 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| Isotope Dilution                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C2 PFDA                           | 107       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C2 PFDoA                          | 78        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C2 PFHxA                          | 117       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C2 PFUnA                          | 98        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C2 PFTeDA                         | 82        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C4 PFBA                           | 110       |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C4 PFOA                           | 123       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C4 PFOS                           | 111       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C4 PFHpA                          | 126       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C5 PFNA                           | 120       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C5 PFPeA                          | 132       |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 13C8 FOSA                           | 68        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| 18O2 PFHxS                          | 115       |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| d3-NMeFOSAA                         | 75        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| d5-NEtFOSAA                         | 84        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| M2-6:2 FTS                          | 89        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |
| M2-8:2 FTS                          | 111       |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 19:53 | 1       |

**Client Sample ID: 3-WES-006-001-04**

**Lab Sample ID: 480-164158-4**

**Date Collected: 12/12/19 13:15**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND     |           | 5.0 | 1.8 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,1,1-Trichloroethane       | ND     |           | 5.0 | 4.1 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 5.0 | 1.1 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,1,2-Trichloroethane       | ND     |           | 5.0 | 1.2 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,1-Dichloroethane          | ND     |           | 5.0 | 1.9 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,1-Dichloroethene          | ND     |           | 5.0 | 1.5 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2,3-Trichloropropane      | ND     |           | 5.0 | 4.5 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 5.0 | 2.0 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2-Dibromoethane           | ND     |           | 5.0 | 3.7 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2-Dichlorobenzene         | ND     |           | 5.0 | 4.0 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2-Dichloroethane          | ND     |           | 5.0 | 1.1 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,2-Dichloropropane         | ND     |           | 5.0 | 3.6 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 1,4-Dichlorobenzene         | ND     |           | 5.0 | 4.2 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 2-Butanone (MEK)            | ND     |           | 50  | 6.6 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 2-Hexanone                  | ND     |           | 25  | 6.2 | ug/L |   |          | 12/18/19 14:58 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 25  | 11  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Acetone                     | ND     |           | 50  | 15  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Acrylonitrile               | ND     |           | 25  | 4.2 | ug/L |   |          | 12/18/19 14:58 | 5       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-04

Lab Sample ID: 480-164158-4

Date Collected: 12/12/19 13:15

Matrix: Water

Date Received: 12/13/19 09:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene                     | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Bromodichloromethane        | ND     |           | 5.0 | 2.0  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Bromoform                   | ND     |           | 5.0 | 1.3  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Bromomethane                | ND     |           | 5.0 | 3.5  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Carbon disulfide            | ND     |           | 5.0 | 0.95 | ug/L |   |          | 12/18/19 14:58 | 5       |
| Carbon tetrachloride        | ND     |           | 5.0 | 1.4  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Chlorobenzene               | ND     |           | 5.0 | 3.8  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Chlorobromomethane          | ND     |           | 5.0 | 4.4  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Chloroethane                | ND     |           | 5.0 | 1.6  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Chloroform                  | ND     |           | 5.0 | 1.7  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Chloromethane               | ND     |           | 5.0 | 1.8  | ug/L |   |          | 12/18/19 14:58 | 5       |
| cis-1,2-Dichloroethene      | ND     |           | 5.0 | 4.1  | ug/L |   |          | 12/18/19 14:58 | 5       |
| cis-1,3-Dichloropropene     | ND     |           | 5.0 | 1.8  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Dibromochloromethane        | ND     |           | 5.0 | 1.6  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Dibromomethane              | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Ethylbenzene                | ND     |           | 5.0 | 3.7  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Iodomethane                 | ND     |           | 5.0 | 1.5  | ug/L |   |          | 12/18/19 14:58 | 5       |
| m,p-Xylene                  | ND     |           | 10  | 3.3  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Methylene Chloride          | ND     |           | 5.0 | 2.2  | ug/L |   |          | 12/18/19 14:58 | 5       |
| o-Xylene                    | ND     |           | 5.0 | 3.8  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Styrene                     | ND     |           | 5.0 | 3.7  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Tetrachloroethene           | ND     |           | 5.0 | 1.8  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Toluene                     | ND     |           | 5.0 | 2.6  | ug/L |   |          | 12/18/19 14:58 | 5       |
| trans-1,2-Dichloroethene    | ND     |           | 5.0 | 4.5  | ug/L |   |          | 12/18/19 14:58 | 5       |
| trans-1,3-Dichloropropene   | ND     |           | 5.0 | 1.9  | ug/L |   |          | 12/18/19 14:58 | 5       |
| trans-1,4-Dichloro-2-butene | ND     |           | 5.0 | 1.1  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Trichloroethene             | ND     |           | 5.0 | 2.3  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Trichlorofluoromethane      | ND     |           | 5.0 | 4.4  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Vinyl acetate               | ND     |           | 25  | 4.3  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Vinyl chloride              | ND     |           | 5.0 | 4.5  | ug/L |   |          | 12/18/19 14:58 | 5       |
| Xylenes, Total              | ND     |           | 10  | 3.3  | ug/L |   |          | 12/18/19 14:58 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 77 - 120 |          | 12/18/19 14:58 | 5       |
| 4-Bromofluorobenzene (Surr)  | 105       |           | 73 - 120 |          | 12/18/19 14:58 | 5       |
| Dibromofluoromethane (Surr)  | 109       |           | 75 - 123 |          | 12/18/19 14:58 | 5       |
| Toluene-d8 (Surr)            | 104       |           | 80 - 120 |          | 12/18/19 14:58 | 5       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 3.2       | E         | 0.23     | 0.11 | ug/L |   | 12/17/19 08:31 | 12/19/19 03:12 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 30        |           | 15 - 110 |      |      |   | 12/17/19 08:31 | 12/19/19 03:12 | 1       |

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte            | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.54 | 0.33 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Acenaphthylene     | ND     |           | 0.54 | 0.37 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Anthracene         | ND     |           | 0.54 | 0.42 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Benzo[a]anthracene | ND     |           | 0.54 | 0.43 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-04

Lab Sample ID: 480-164158-4

Date Collected: 12/12/19 13:15

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

| Analyte                | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Benzo[a]pyrene         | ND     |           | 0.54 | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.54 | 0.33  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.54 | 0.40  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.54 | 0.092 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Chrysene               | ND     |           | 0.54 | 0.35  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.54 | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Fluoranthene           | ND     |           | 0.54 | 0.39  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Fluorene               | ND     |           | 0.54 | 0.40  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.54 | 0.48  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Naphthalene            | ND     |           | 0.54 | 0.46  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Phenanthrene           | ND     |           | 0.54 | 0.41  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Pyrene                 | ND     |           | 0.54 | 0.39  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:17 | 1       |

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 96        |           | 48 - 120 | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| Nitrobenzene-d5  | 95        |           | 46 - 120 | 12/16/19 08:59 | 12/21/19 13:17 | 1       |
| p-Terphenyl-d14  | 52        |           | 24 - 136 | 12/16/19 08:59 | 12/21/19 13:17 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 18  | 2.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 6.3    | J         | 18  | 4.9  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 18  | 1.3  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 1.5    | J *       | 18  | 1.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 12     |           | 1.8 | 0.44 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorobutanoic acid (PFBA)                            | 68     | B         | 1.8 | 0.90 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.8 | 0.81 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 1.1    | J         | 1.8 | 0.69 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.8 | 0.53 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 1.3    | J         | 1.8 | 0.85 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 23     |           | 1.8 | 0.81 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 79     |           | 1.8 | 0.72 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 45     |           | 1.8 | 0.68 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorononanoic acid (PFNA)                            | 5.2    | B         | 1.8 | 0.24 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | ND     |           | 9.0 | 9.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 63     |           | 1.8 | 0.55 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 98     |           | 1.8 | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 26     |           | 1.8 | 0.56 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.8 | 0.82 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.8 | 0.54 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.8 | 0.70 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:01 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA        | 76        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C2 PFDoA       | 79        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-04

Lab Sample ID: 480-164158-4

Date Collected: 12/12/19 13:15

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFHxA       | 81        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C2 PFUnA       | 69        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C2 PFTeDA      | 85        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C4 PFBA        | 44        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C4 PFOA        | 95        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C4 PFOS        | 67        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C4 PFHpA       | 98        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C5 PFNA        | 75        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C5 PFPeA       | 73        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 13C8 FOSA        | 47        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| 18O2 PFHxS       | 85        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| d3-NMeFOSAA      | 52        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| d5-NEtFOSAA      | 57        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| M2-6:2 FTS       | 109       |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |
| M2-8:2 FTS       | 91        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:01 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | 36.3   |           | 0.20   | 0.060   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Antimony  | 0.044  |           | 0.040  | 0.014   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Arsenic   | 0.057  |           | 0.030  | 0.011   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Barium    | 3.4    |           | 0.0020 | 0.00070 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Beryllium | 0.0014 | J         | 0.0020 | 0.00030 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Boron     | 0.98   |           | 0.020  | 0.0040  | mg/L |   | 12/16/19 10:23 | 12/23/19 17:15 | 1       |
| Cadmium   | ND     |           | 0.0040 | 0.0010  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Calcium   | 434    |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Chromium  | 0.073  |           | 0.0080 | 0.0020  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Cobalt    | 0.025  |           | 0.0040 | 0.00063 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Copper    | 0.16   |           | 0.010  | 0.0016  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Iron      | 621    |           | 0.10   | 0.039   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Lead      | 0.30   |           | 0.020  | 0.0060  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Magnesium | 59.9   |           | 0.20   | 0.043   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Manganese | 7.9    | B         | 0.0060 | 0.00080 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Nickel    | 0.065  |           | 0.020  | 0.0025  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Potassium | 24.1   |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Selenium  | ND     |           | 0.050  | 0.017   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Silver    | ND     |           | 0.012  | 0.0034  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Sodium    | 77.0   |           | 1.0    | 0.32    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:14 | 1       |
| Vanadium  | 0.13   |           | 0.010  | 0.0030  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:40 | 2       |
| Zinc      | 0.63   |           | 0.010  | 0.0015  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:36 | 1       |

## Method: 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00067 |           | 0.00020 | 0.00012 | mg/L |   | 12/23/19 12:08 | 12/23/19 16:32 | 1       |

## General Chemistry

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromide  | 0.62   | J         | 1.0 | 0.37 | mg/L |   |          | 12/19/19 13:52 | 5       |
| Chloride | 95.6   |           | 2.5 | 1.4  | mg/L |   |          | 12/17/19 23:49 | 5       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-04

Lab Sample ID: 480-164158-4

Date Collected: 12/12/19 13:15

Matrix: Water

Date Received: 12/13/19 09:00

## General Chemistry (Continued)

| Analyte                 | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Sulfate                 | 87.5   |           | 10.0  | 1.7   | mg/L |   |          | 12/17/19 23:49 | 5       |
| Ammonia                 | 3.6    |           | 0.040 | 0.018 | mg/L |   |          | 12/16/19 12:56 | 2       |
| Chemical Oxygen Demand  | 6.7    | J         | 10.0  | 5.0   | mg/L |   |          | 12/19/19 19:01 | 1       |
| Total Organic Carbon    | 11.7   |           | 1.0   | 0.43  | mg/L |   |          | 12/26/19 01:01 | 1       |
| Alkalinity, Total       | 694    | B         | 5.0   | 0.79  | mg/L |   |          | 12/26/19 20:46 | 1       |
| Total hardness as CaCO3 | 1220   |           | 10.0  | 2.6   | mg/L |   |          | 12/18/19 09:42 | 1       |
| Total Dissolved Solids  | 820    |           | 20.0  | 8.0   | mg/L |   |          | 12/17/19 13:44 | 1       |

Client Sample ID: 3-WES-006-001-05

Lab Sample ID: 480-164158-5

Date Collected: 12/12/19 14:15

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,1,1-Trichloroethane       | ND     |           | 4.0 | 3.3  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 4.0 | 0.84 | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,1,2-Trichloroethane       | ND     |           | 4.0 | 0.92 | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,1-Dichloroethane          | ND     |           | 4.0 | 1.5  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,1-Dichloroethene          | ND     |           | 4.0 | 1.2  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2,3-Trichloropropane      | ND     |           | 4.0 | 3.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2-Dibromoethane           | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2-Dichlorobenzene         | ND     |           | 4.0 | 3.2  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2-Dichloroethane          | ND     |           | 4.0 | 0.84 | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,2-Dichloropropane         | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 1,4-Dichlorobenzene         | ND     |           | 4.0 | 3.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 2-Butanone (MEK)            | ND     |           | 40  | 5.3  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 2-Hexanone                  | ND     |           | 20  | 5.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 20  | 8.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Acetone                     | 31     | J         | 40  | 12   | ug/L |   |          | 12/19/19 01:07 | 4       |
| Acrylonitrile               | ND     |           | 20  | 3.3  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Benzene                     | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Bromodichloromethane        | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Bromoform                   | ND     |           | 4.0 | 1.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Bromomethane                | ND     |           | 4.0 | 2.8  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Carbon disulfide            | ND     |           | 4.0 | 0.76 | ug/L |   |          | 12/19/19 01:07 | 4       |
| Carbon tetrachloride        | ND     |           | 4.0 | 1.1  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Chlorobenzene               | ND     |           | 4.0 | 3.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Chlorobromomethane          | ND     |           | 4.0 | 3.5  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Chloroethane                | ND     |           | 4.0 | 1.3  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Chloroform                  | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Chloromethane               | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| cis-1,2-Dichloroethene      | ND     |           | 4.0 | 3.2  | ug/L |   |          | 12/19/19 01:07 | 4       |
| cis-1,3-Dichloropropene     | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Dibromochloromethane        | ND     |           | 4.0 | 1.3  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Dibromomethane              | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Ethylbenzene                | ND     |           | 4.0 | 3.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Iodomethane                 | ND     |           | 4.0 | 1.2  | ug/L |   |          | 12/19/19 01:07 | 4       |
| m,p-Xylene                  | ND     |           | 8.0 | 2.6  | ug/L |   |          | 12/19/19 01:07 | 4       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-05

Lab Sample ID: 480-164158-5

Date Collected: 12/12/19 14:15

Matrix: Water

Date Received: 12/13/19 09:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methylene Chloride          | ND     |           | 4.0 | 1.8  | ug/L |   |          | 12/19/19 01:07 | 4       |
| o-Xylene                    | ND     |           | 4.0 | 3.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Styrene                     | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Tetrachloroethene           | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Toluene                     | ND     |           | 4.0 | 2.0  | ug/L |   |          | 12/19/19 01:07 | 4       |
| trans-1,2-Dichloroethene    | ND     |           | 4.0 | 3.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| trans-1,3-Dichloropropene   | ND     |           | 4.0 | 1.5  | ug/L |   |          | 12/19/19 01:07 | 4       |
| trans-1,4-Dichloro-2-butene | ND     |           | 4.0 | 0.88 | ug/L |   |          | 12/19/19 01:07 | 4       |
| Trichloroethene             | ND     |           | 4.0 | 1.8  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Trichlorofluoromethane      | ND     |           | 4.0 | 3.5  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Vinyl acetate               | ND     |           | 20  | 3.4  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Vinyl chloride              | ND     |           | 4.0 | 3.6  | ug/L |   |          | 12/19/19 01:07 | 4       |
| Xylenes, Total              | ND     |           | 8.0 | 2.6  | ug/L |   |          | 12/19/19 01:07 | 4       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 77 - 120 |          | 12/19/19 01:07 | 4       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 73 - 120 |          | 12/19/19 01:07 | 4       |
| Dibromofluoromethane (Surr)  | 104       |           | 75 - 123 |          | 12/19/19 01:07 | 4       |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 12/19/19 01:07 | 4       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.43      |           | 0.22     | 0.11 | ug/L |   | 12/17/19 08:31 | 12/19/19 03:35 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 30        |           | 15 - 110 |      |      |   | 12/17/19 08:31 | 12/19/19 03:35 | 1       |

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte                | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |           | 5.7      | 3.4  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Acenaphthylene         | ND        |           | 5.7      | 3.9  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Anthracene             | ND        |           | 5.7      | 4.4  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Benzo[a]anthracene     | ND        |           | 5.7      | 4.5  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Benzo[a]pyrene         | ND        |           | 5.7      | 3.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Benzo[b]fluoranthene   | ND        |           | 5.7      | 3.4  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Benzo[g,h,i]perylene   | ND        |           | 5.7      | 4.2  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Benzo[k]fluoranthene   | ND        |           | 5.7      | 0.97 | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Chrysene               | ND        |           | 5.7      | 3.6  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Dibenz(a,h)anthracene  | ND        |           | 5.7      | 3.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Fluoranthene           | ND        |           | 5.7      | 4.1  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Fluorene               | ND        |           | 5.7      | 4.2  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Indeno[1,2,3-cd]pyrene | ND        |           | 5.7      | 5.0  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Naphthalene            | ND        |           | 5.7      | 4.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Phenanthrene           | ND        |           | 5.7      | 4.3  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Pyrene                 | ND        |           | 5.7      | 4.1  | ug/L |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Surrogate              | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 92        |           | 48 - 120 |      |      |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| Nitrobenzene-d5        | 78        |           | 46 - 120 |      |      |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |
| p-Terphenyl-d14        | 54        |           | 24 - 136 |      |      |   | 12/16/19 08:59 | 12/21/19 13:45 | 10      |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-05

Lab Sample ID: 480-164158-5

Date Collected: 12/12/19 14:15

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 18  | 2.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | ND     |           | 18  | 5.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 5.3    | J         | 18  | 1.4  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2.6    | J *       | 18  | 1.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 4.8    |           | 1.8 | 0.44 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorobutanoic acid (PFBA)                            | 13     | B         | 1.8 | 0.91 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.8 | 0.82 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 1.6    | J         | 1.8 | 0.70 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.8 | 0.54 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 2.3    |           | 1.8 | 0.86 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 8.9    |           | 1.8 | 0.83 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 31     |           | 1.8 | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 15     |           | 1.8 | 0.69 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorononanoic acid (PFNA)                            | 3.0    | B         | 1.8 | 0.24 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | ND     |           | 9.1 | 9.1  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 240    |           | 1.8 | 0.55 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 23     |           | 1.8 | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 13     |           | 1.8 | 0.57 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.8 | 0.83 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluorotridecanoic acid (PFTrIA)                       | ND     |           | 1.8 | 0.54 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 1.0    | J B       | 1.8 | 0.71 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:09 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA        | 57        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C2 PFDoA       | 52        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C2 PFHxA       | 83        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C2 PFUnA       | 55        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C2 PFTeDA      | 75        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C4 PFBA        | 70        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C4 PFOA        | 89        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C4 PFOS        | 73        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C4 PFHpA       | 93        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C5 PFNA        | 78        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C5 PFPeA       | 95        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 13C8 FOSA        | 59        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| 18O2 PFHxS       | 95        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| d3-NMeFOSAA      | 42        | *         | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| d5-NEtFOSAA      | 51        |           | 50 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| M2-6:2 FTS       | 76        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |
| M2-8:2 FTS       | 70        |           | 25 - 150 | 12/17/19 15:27 | 12/18/19 20:09 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Aluminum | 229    |           | 1.0 | 0.30 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:22 | 5       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-05

Lab Sample ID: 480-164158-5

Date Collected: 12/12/19 14:15

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 6010C - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Antimony  | 0.10   |           | 0.10  | 0.034  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Arsenic   | 0.21   |           | 0.075 | 0.028  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Barium    | 10.4   |           | 0.010 | 0.0035 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Beryllium | 0.012  |           | 0.010 | 0.0015 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Boron     | 0.47   |           | 0.020 | 0.0040 | mg/L |   | 12/16/19 10:23 | 01/06/20 10:42 | 1       |
| Cadmium   | 0.017  |           | 0.010 | 0.0025 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Calcium   | 379    |           | 2.5   | 0.50   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Chromium  | 0.49   |           | 0.020 | 0.0050 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Cobalt    | 0.21   |           | 0.020 | 0.0032 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Copper    | 1.2    |           | 0.050 | 0.0080 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Iron      | 1570   |           | 0.25  | 0.097  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Lead      | 2.6    |           | 0.050 | 0.015  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Magnesium | 108    |           | 1.0   | 0.22   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Manganese | 71.9   | B         | 0.015 | 0.0020 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Nickel    | 0.48   |           | 0.050 | 0.0063 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Potassium | 52.3   |           | 2.5   | 0.50   | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Selenium  | ND     |           | 0.13  | 0.044  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Silver    | ND     |           | 0.030 | 0.0085 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Sodium    | 34.5   |           | 5.0   | 1.6    | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Thallium  | ND     |           | 0.10  | 0.051  | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Vanadium  | 0.77   |           | 0.025 | 0.0075 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |
| Zinc      | 5.8    |           | 0.050 | 0.0075 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:59 | 5       |

## Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.0033 |           | 0.00060 | 0.00036 | mg/L |   | 12/23/19 12:08 | 12/23/19 16:36 | 1       |

## General Chemistry

| Analyte                 | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Bromide                 | 0.40   |           | 0.40  | 0.15   | mg/L |   |          | 12/19/19 14:06 | 2       |
| Chloride                | 107    |           | 1.0   | 0.56   | mg/L |   |          | 12/18/19 00:04 | 2       |
| Sulfate                 | 30.6   |           | 4.0   | 0.70   | mg/L |   |          | 12/18/19 00:04 | 2       |
| Ammonia                 | 0.75   |           | 0.020 | 0.0090 | mg/L |   |          | 12/16/19 12:07 | 1       |
| Chemical Oxygen Demand  | 58.6   |           | 10.0  | 5.0    | mg/L |   |          | 12/19/19 19:01 | 1       |
| Total Organic Carbon    | 5.1    |           | 1.0   | 0.43   | mg/L |   |          | 12/26/19 01:29 | 1       |
| Alkalinity, Total       | 224    | B         | 5.0   | 0.79   | mg/L |   |          | 12/26/19 20:52 | 1       |
| Total hardness as CaCO3 | 780    |           | 20.0  | 5.3    | mg/L |   |          | 12/18/19 09:42 | 1       |
| Total Dissolved Solids  | 146    |           | 10.0  | 4.0    | mg/L |   |          | 12/17/19 13:44 | 1       |

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

Date Collected: 12/12/19 15:45

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND     |           | 1.0 | 0.35 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,1,1-Trichloroethane     | ND     |           | 1.0 | 0.82 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,1,2,2-Tetrachloroethane | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,1,2-Trichloroethane     | ND     |           | 1.0 | 0.23 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,1-Dichloroethane        | ND     |           | 1.0 | 0.38 | ug/L |   |          | 12/19/19 01:31 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

Date Collected: 12/12/19 15:45

Matrix: Water

Date Received: 12/13/19 09:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene          | ND     |           | 1.0 | 0.29 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0 | 0.89 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2-Dibromoethane           | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2-Dichloroethane          | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,2-Dichloropropane         | ND     |           | 1.0 | 0.72 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 1.0 | 0.84 | ug/L |   |          | 12/19/19 01:31 | 1       |
| 2-Butanone (MEK)            | ND     |           | 10  | 1.3  | ug/L |   |          | 12/19/19 01:31 | 1       |
| 2-Hexanone                  | ND     |           | 5.0 | 1.2  | ug/L |   |          | 12/19/19 01:31 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/19/19 01:31 | 1       |
| Acetone                     | ND     |           | 10  | 3.0  | ug/L |   |          | 12/19/19 01:31 | 1       |
| Acrylonitrile               | ND     |           | 5.0 | 0.83 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Benzene                     | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Bromodichloromethane        | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Bromoform                   | ND     |           | 1.0 | 0.26 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Bromomethane                | ND     |           | 1.0 | 0.69 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Carbon disulfide            | ND     |           | 1.0 | 0.19 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Carbon tetrachloride        | ND     |           | 1.0 | 0.27 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Chlorobenzene               | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Chlorobromomethane          | ND     |           | 1.0 | 0.87 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Chloroethane                | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Chloroform                  | 0.48   | J         | 1.0 | 0.34 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Chloromethane               | ND     |           | 1.0 | 0.35 | ug/L |   |          | 12/19/19 01:31 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 12/19/19 01:31 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Dibromochloromethane        | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Dibromomethane              | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Ethylbenzene                | ND     |           | 1.0 | 0.74 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Iodomethane                 | ND     |           | 1.0 | 0.30 | ug/L |   |          | 12/19/19 01:31 | 1       |
| m,p-Xylene                  | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Methylene Chloride          | ND     |           | 1.0 | 0.44 | ug/L |   |          | 12/19/19 01:31 | 1       |
| o-Xylene                    | ND     |           | 1.0 | 0.76 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Styrene                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Tetrachloroethene           | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Toluene                     | ND     |           | 1.0 | 0.51 | ug/L |   |          | 12/19/19 01:31 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/19/19 01:31 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 1.0 | 0.37 | ug/L |   |          | 12/19/19 01:31 | 1       |
| trans-1,4-Dichloro-2-butene | ND     |           | 1.0 | 0.22 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Trichloroethene             | ND     |           | 1.0 | 0.46 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Trichlorofluoromethane      | ND     |           | 1.0 | 0.88 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Vinyl acetate               | ND     |           | 5.0 | 0.85 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Vinyl chloride              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/19/19 01:31 | 1       |
| Xylenes, Total              | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/19/19 01:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 77 - 120 |          | 12/19/19 01:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 73 - 120 |          | 12/19/19 01:31 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 75 - 123 |          | 12/19/19 01:31 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 12/19/19 01:31 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

Date Collected: 12/12/19 15:45

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | ND        |           | 0.22     | 0.11 | ug/L |   | 12/17/19 08:31 | 12/19/19 03:58 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 27        |           | 15 - 110 |      |      |   | 12/17/19 08:31 | 12/19/19 03:58 | 1       |

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte                | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |           | 2.7      | 1.6  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Acenaphthylene         | ND        |           | 2.7      | 1.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Anthracene             | ND        |           | 2.7      | 2.1  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Benzo[a]anthracene     | ND        |           | 2.7      | 2.2  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Benzo[a]pyrene         | ND        |           | 2.7      | 1.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Benzo[b]fluoranthene   | ND        |           | 2.7      | 1.6  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Benzo[g,h,i]perylene   | ND        |           | 2.7      | 2.0  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 2.7      | 0.46 | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Chrysene               | ND        |           | 2.7      | 1.7  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 2.7      | 1.8  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Fluoranthene           | ND        |           | 2.7      | 2.0  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Fluorene               | ND        |           | 2.7      | 2.0  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 2.7      | 2.4  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Naphthalene            | ND        |           | 2.7      | 2.3  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Phenanthrene           | ND        |           | 2.7      | 2.1  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Pyrene                 | ND        |           | 2.7      | 2.0  | ug/L |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 92        |           | 48 - 120 |      |      |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| Nitrobenzene-d5        | 83        |           | 46 - 120 |      |      |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |
| p-Terphenyl-d14        | 55        |           | 24 - 136 |      |      |   | 12/16/19 08:59 | 12/21/19 14:13 | 5       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND     |           | 18  | 2.6  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | ND     |           | 18  | 5.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)  | ND     |           | 18  | 1.4  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     | *         | 18  | 1.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 3.2    |           | 1.8 | 0.44 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorobutanoic acid (PFBA)                            | 7.7    | B         | 1.8 | 0.90 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.8 | 0.81 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 1.2    | J         | 1.8 | 0.70 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.8 | 0.53 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.8 | 0.86 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 2.6    |           | 1.8 | 0.82 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 3.5    |           | 1.8 | 0.72 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 3.5    |           | 1.8 | 0.69 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorononanoic acid (PFNA)                            | 1.4    | J B       | 1.8 | 0.24 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | ND     |           | 9.0 | 9.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

Date Collected: 12/12/19 15:45

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                             | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonic acid (PFOS) | 18        |           | 1.8      | 0.55 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorooctanoic acid (PFOA)       | 7.4       |           | 1.8      | 0.73 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluoropentanoic acid (PFPeA)     | 3.9       |           | 1.8      | 0.57 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorotetradecanoic acid (PFTeA) | ND        |           | 1.8      | 0.83 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluorotridecanoic acid (PFTrIA)  | ND        |           | 1.8      | 0.54 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Perfluoroundecanoic acid (PFUnA)    | 0.89      | J B       | 1.8      | 0.70 | ng/L |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| Isotope Dilution                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C2 PFDA                           | 49        | *         | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C2 PFDoA                          | 50        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C2 PFHxA                          | 76        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C2 PFUnA                          | 44        | *         | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C2 PFTeDA                         | 63        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C4 PFBA                           | 63        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C4 PFOA                           | 81        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C4 PFOS                           | 55        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C4 PFHpA                          | 89        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C5 PFNA                           | 60        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C5 PFPeA                          | 82        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 13C8 FOSA                           | 39        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| 18O2 PFHxS                          | 76        |           | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| d3-NMeFOSAA                         | 40        | *         | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| d5-NEtFOSAA                         | 40        | *         | 50 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| M2-6:2 FTS                          | 71        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |
| M2-8:2 FTS                          | 62        |           | 25 - 150 |      |      |   | 12/17/19 15:27 | 12/18/19 20:18 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | 48.2   |           | 0.20   | 0.060   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Arsenic   | 0.045  |           | 0.015  | 0.0056  | mg/L |   | 12/16/19 10:23 | 12/20/19 23:03 | 1       |
| Barium    | 0.69   |           | 0.0020 | 0.00070 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Beryllium | 0.0014 | J         | 0.0020 | 0.00030 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Boron     | 0.062  |           | 0.020  | 0.0040  | mg/L |   | 12/16/19 10:23 | 01/06/20 10:46 | 1       |
| Cadmium   | 0.0029 |           | 0.0020 | 0.00050 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Calcium   | 93.6   |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Chromium  | 0.056  |           | 0.0040 | 0.0010  | mg/L |   | 12/16/19 10:23 | 12/20/19 23:03 | 1       |
| Cobalt    | 0.025  |           | 0.0040 | 0.00063 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Copper    | 0.079  |           | 0.010  | 0.0016  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Iron      | 161    |           | 0.050  | 0.019   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Lead      | 0.27   |           | 0.010  | 0.0030  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Magnesium | 23.1   |           | 0.20   | 0.043   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Manganese | 1.4    | B         | 0.0030 | 0.00040 | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Nickel    | 0.061  |           | 0.010  | 0.0013  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Potassium | 12.1   |           | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 12/16/19 10:23 | 12/20/19 23:03 | 1       |
| Silver    | ND     |           | 0.0060 | 0.0017  | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Sodium    | 267    |           | 1.0    | 0.32    | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 12/16/19 10:23 | 12/18/19 23:30 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-06

Lab Sample ID: 480-164158-6

Date Collected: 12/12/19 15:45

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 6010C - Metals (ICP) (Continued)

| Analyte  | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Vanadium | 0.12   |           | 0.0050 | 0.0015 | mg/L | - | 12/16/19 10:23 | 12/18/19 23:30 | 1       |
| Zinc     | 0.31   |           | 0.010  | 0.0015 | mg/L | - | 12/16/19 10:23 | 12/20/19 23:03 | 1       |

## Method: 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00060 |           | 0.00020 | 0.00012 | mg/L | - | 12/23/19 12:08 | 12/23/19 16:37 | 1       |

## General Chemistry

| Analyte                 | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Bromide                 | ND     | ^ *       | 2.0   | 0.73   | mg/L | - |          | 12/18/19 00:18 | 10      |
| Chloride                | 680    |           | 5.0   | 2.8    | mg/L |   |          | 12/18/19 00:18 | 10      |
| Sulfate                 | 53.4   |           | 20.0  | 3.5    | mg/L |   |          | 12/18/19 00:18 | 10      |
| Ammonia                 | 0.22   |           | 0.020 | 0.0090 | mg/L |   |          | 12/16/19 12:08 | 1       |
| Chemical Oxygen Demand  | 119    |           | 10.0  | 5.0    | mg/L |   |          | 12/19/19 19:01 | 1       |
| Total Organic Carbon    | 12.3   |           | 1.0   | 0.43   | mg/L |   |          | 12/26/19 01:56 | 1       |
| Alkalinity, Total       | 35.8   | B         | 5.0   | 0.79   | mg/L |   |          | 12/26/19 20:57 | 1       |
| Total hardness as CaCO3 | 240    |           | 10.0  | 2.6    | mg/L |   |          | 12/18/19 09:42 | 1       |
| Total Dissolved Solids  | 1140   |           | 20.0  | 8.0    | mg/L |   |          | 12/17/19 13:44 | 1       |

Client Sample ID: 3-WES-006-001-07

Lab Sample ID: 480-164158-7

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/13/19 09:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,1,2-Tetrachloroethane | ND     |           | 1.0 | 0.35 | ug/L | - |          | 12/16/19 14:21 | 1       |
| 1,1,1,1-Trichloroethane     | ND     |           | 1.0 | 0.82 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 1.0 | 0.23 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,1-Dichloroethane          | ND     |           | 1.0 | 0.38 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,1-Dichloroethene          | ND     |           | 1.0 | 0.29 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0 | 0.89 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2-Dibromoethane           | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2-Dichloroethane          | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,2-Dichloropropane         | ND     |           | 1.0 | 0.72 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 1.0 | 0.84 | ug/L |   |          | 12/16/19 14:21 | 1       |
| 2-Butanone (MEK)            | ND     |           | 10  | 1.3  | ug/L |   |          | 12/16/19 14:21 | 1       |
| 2-Hexanone                  | ND     |           | 5.0 | 1.2  | ug/L |   |          | 12/16/19 14:21 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/16/19 14:21 | 1       |
| Acetone                     | ND     | *         | 10  | 3.0  | ug/L |   |          | 12/16/19 14:21 | 1       |
| Acrylonitrile               | ND     | *         | 5.0 | 0.83 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Benzene                     | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Bromodichloromethane        | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Bromoform                   | ND     |           | 1.0 | 0.26 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Bromomethane                | ND     |           | 1.0 | 0.69 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Carbon disulfide            | ND     |           | 1.0 | 0.19 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Carbon tetrachloride        | ND     |           | 1.0 | 0.27 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Chlorobenzene               | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/16/19 14:21 | 1       |

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# Client Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

Client Sample ID: 3-WES-006-001-07

Lab Sample ID: 480-164158-7

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/13/19 09:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobromomethane          | ND     |           | 1.0 | 0.87 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Chloroethane                | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Chloroform                  | ND     |           | 1.0 | 0.34 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Chloromethane               | ND     |           | 1.0 | 0.35 | ug/L |   |          | 12/16/19 14:21 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 12/16/19 14:21 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Dibromochloromethane        | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Dibromomethane              | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Ethylbenzene                | ND     |           | 1.0 | 0.74 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Iodomethane                 | ND *   |           | 1.0 | 0.30 | ug/L |   |          | 12/16/19 14:21 | 1       |
| m,p-Xylene                  | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Methylene Chloride          | ND     |           | 1.0 | 0.44 | ug/L |   |          | 12/16/19 14:21 | 1       |
| o-Xylene                    | ND     |           | 1.0 | 0.76 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Styrene                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Tetrachloroethene           | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Toluene                     | ND     |           | 1.0 | 0.51 | ug/L |   |          | 12/16/19 14:21 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/16/19 14:21 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 1.0 | 0.37 | ug/L |   |          | 12/16/19 14:21 | 1       |
| trans-1,4-Dichloro-2-butene | ND     |           | 1.0 | 0.22 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Trichloroethene             | ND     |           | 1.0 | 0.46 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Trichlorofluoromethane      | ND     |           | 1.0 | 0.88 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Vinyl acetate               | ND     |           | 5.0 | 0.85 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Vinyl chloride              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/16/19 14:21 | 1       |
| Xylenes, Total              | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/16/19 14:21 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107       |           | 77 - 120 |          | 12/16/19 14:21 | 1       |
| 4-Bromofluorobenzene (Surr)  | 105       |           | 73 - 120 |          | 12/16/19 14:21 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 75 - 123 |          | 12/16/19 14:21 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 12/16/19 14:21 | 1       |

# Surrogate Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|--------------------|------------------------------------------------|-----------------|------------------|-----------------|
|                  |                    | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| 480-164158-1     | 3-WES-006-001-01   | 101                                            | 104             | 102              | 102             |
| 480-164158-4     | 3-WES-006-001-04   | 111                                            | 105             | 109              | 104             |
| 480-164158-5     | 3-WES-006-001-05   | 98                                             | 102             | 104              | 99              |
| 480-164158-6     | 3-WES-006-001-06   | 99                                             | 100             | 101              | 96              |
| 480-164158-7     | 3-WES-006-001-07   | 107                                            | 105             | 106              | 92              |
| LCS 480-509985/5 | Lab Control Sample | 108                                            | 109             | 111              | 95              |
| LCS 480-510494/5 | Lab Control Sample | 106                                            | 107             | 106              | 102             |
| LCS 480-510709/4 | Lab Control Sample | 96                                             | 100             | 99               | 94              |
| MB 480-509985/7  | Method Blank       | 110                                            | 108             | 110              | 96              |
| MB 480-510494/7  | Method Blank       | 109                                            | 106             | 109              | 104             |
| MB 480-510709/6  | Method Blank       | 96                                             | 99              | 98               | 95              |

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                    |
|--------------------|--------------------|------------------------------------------------|-----------------|--------------------|
|                    |                    | FBP<br>(48-120)                                | NBZ<br>(46-120) | TPHd14<br>(24-136) |
| 480-164158-1       | 3-WES-006-001-01   | 98                                             | 98              | 58                 |
| 480-164158-4       | 3-WES-006-001-04   | 96                                             | 95              | 52                 |
| 480-164158-5       | 3-WES-006-001-05   | 92                                             | 78              | 54                 |
| 480-164158-6       | 3-WES-006-001-06   | 92                                             | 83              | 55                 |
| LCS 480-510038/2-A | Lab Control Sample | 86                                             | 93              | 84                 |
| MB 480-510038/1-A  | Method Blank       | 90                                             | 93              | 85                 |

### Surrogate Legend

FBP = 2-Fluorobiphenyl  
NBZ = Nitrobenzene-d5  
TPHd14 = p-Terphenyl-d14

# Isotope Dilution Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

| Percent Isotope Dilution Recovery (Acceptance Limits) |                    |                 |
|-------------------------------------------------------|--------------------|-----------------|
| Lab Sample ID                                         | Client Sample ID   | DXE<br>(15-110) |
| 480-164158-1                                          | 3-WES-006-001-01   | 27              |
| 480-164158-4                                          | 3-WES-006-001-04   | 30              |
| 480-164158-5                                          | 3-WES-006-001-05   | 30              |
| 480-164158-6                                          | 3-WES-006-001-06   | 27              |
| LCS 480-510224/2-A                                    | Lab Control Sample | 25              |
| MB 480-510224/1-A                                     | Method Blank       | 26              |

### Surrogate Legend

DXE = 1,4-Dioxane-d8

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

| Percent Isotope Dilution Recovery (Acceptance Limits) |                        |                  |                   |                   |                   |                   |                  |                  |                  |
|-------------------------------------------------------|------------------------|------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
| Lab Sample ID                                         | Client Sample ID       | PFDA<br>(50-150) | PFDoA<br>(50-150) | PFHxA<br>(50-150) | PFUnA<br>(50-150) | PFTDA<br>(50-150) | PFBA<br>(25-150) | PFOA<br>(50-150) | PFOS<br>(50-150) |
| 480-164158-1                                          | 3-WES-006-001-01       | 113              | 109               | 93                | 114               | 119               | 46               | 110              | 105              |
| 480-164158-2                                          | 3-WES-006-001-02       | 96               | 77                | 115               | 88                | 80                | 101              | 107              | 102              |
| 480-164158-3                                          | 3-WES-006-001-03       | 107              | 78                | 117               | 98                | 82                | 110              | 123              | 111              |
| 480-164158-4                                          | 3-WES-006-001-04       | 76               | 79                | 81                | 69                | 85                | 44               | 95               | 67               |
| 480-164158-5                                          | 3-WES-006-001-05       | 57               | 52                | 83                | 55                | 75                | 70               | 89               | 73               |
| 480-164158-6                                          | 3-WES-006-001-06       | 49 *             | 50                | 76                | 44 *              | 63                | 63               | 81               | 55               |
| LCS 200-150808/2-A                                    | Lab Control Sample     | 103              | 70                | 119               | 95                | 79                | 105              | 115              | 113              |
| LCSD 200-150808/3-A                                   | Lab Control Sample Dup | 98               | 81                | 116               | 95                | 82                | 105              | 118              | 108              |
| MB 200-150808/1-A                                     | Method Blank           | 97               | 79                | 107               | 95                | 75                | 96               | 114              | 109              |

| Percent Isotope Dilution Recovery (Acceptance Limits) |                        |                   |                  |                   |                   |                   |                     |                     |                     |
|-------------------------------------------------------|------------------------|-------------------|------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|
| Lab Sample ID                                         | Client Sample ID       | PFHpA<br>(50-150) | PFNA<br>(50-150) | PFPeA<br>(25-150) | PFOSA<br>(25-150) | PFHxS<br>(50-150) | -NMeFOS<br>(50-150) | -NEtFOS<br>(50-150) | M262FTS<br>(25-150) |
| 480-164158-1                                          | 3-WES-006-001-01       | 104               | 101              | 82                | 79                | 113               | 93                  | 126                 | 158 *               |
| 480-164158-2                                          | 3-WES-006-001-02       | 112               | 104              | 119               | 63                | 104               | 79                  | 80                  | 83                  |
| 480-164158-3                                          | 3-WES-006-001-03       | 126               | 120              | 132               | 68                | 115               | 75                  | 84                  | 89                  |
| 480-164158-4                                          | 3-WES-006-001-04       | 98                | 75               | 73                | 47                | 85                | 52                  | 57                  | 109                 |
| 480-164158-5                                          | 3-WES-006-001-05       | 93                | 78               | 95                | 59                | 95                | 42 *                | 51                  | 76                  |
| 480-164158-6                                          | 3-WES-006-001-06       | 89                | 60               | 82                | 39                | 76                | 40 *                | 40 *                | 71                  |
| LCS 200-150808/2-A                                    | Lab Control Sample     | 115               | 118              | 128               | 70                | 112               | 79                  | 86                  | 87                  |
| LCSD 200-150808/3-A                                   | Lab Control Sample Dup | 129               | 114              | 129               | 79                | 113               | 88                  | 82                  | 85                  |
| MB 200-150808/1-A                                     | Method Blank           | 116               | 101              | 117               | 75                | 110               | 81                  | 80                  | 87                  |

| Percent Isotope Dilution Recovery (Acceptance Limits) |                        |                     |
|-------------------------------------------------------|------------------------|---------------------|
| Lab Sample ID                                         | Client Sample ID       | M282FTS<br>(25-150) |
| 480-164158-1                                          | 3-WES-006-001-01       | 165 *               |
| 480-164158-2                                          | 3-WES-006-001-02       | 99                  |
| 480-164158-3                                          | 3-WES-006-001-03       | 111                 |
| 480-164158-4                                          | 3-WES-006-001-04       | 91                  |
| 480-164158-5                                          | 3-WES-006-001-05       | 70                  |
| 480-164158-6                                          | 3-WES-006-001-06       | 62                  |
| LCS 200-150808/2-A                                    | Lab Control Sample     | 112                 |
| LCSD 200-150808/3-A                                   | Lab Control Sample Dup | 103                 |
| MB 200-150808/1-A                                     | Method Blank           | 100                 |

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# Isotope Dilution Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Surrogate Legend

PFDA = 13C2 PFDA  
PFDoA = 13C2 PFDoA  
PFHxA = 13C2 PFHxA  
PFUnA = 13C2 PFUnA  
PFTDA = 13C2 PFTeDA  
PFBA = 13C4 PFBA  
PFOA = 13C4 PFOA  
PFOS = 13C4 PFOS  
PFHpA = 13C4 PFHpA  
PFNA = 13C5 PFNA  
PFPeA = 13C5 PFPeA  
PFOSA = 13C8 FOSA  
PFHxS = 18O2 PFHxS  
d3-NMeFOSAA = d3-NMeFOSAA  
d5-NEtFOSAA = d5-NEtFOSAA  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS

1  
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16

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-509985/7

Matrix: Water

Analysis Batch: 509985

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.35 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.82 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.23 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.38 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,1-Dichloroethene          | ND        |              | 1.0 | 0.29 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0 | 0.89 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2-Dibromoethane           | ND        |              | 1.0 | 0.73 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 1.0 | 0.79 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.72 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 1.0 | 0.84 | ug/L |   |          | 12/16/19 10:58 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.3  | ug/L |   |          | 12/16/19 10:58 | 1       |
| 2-Hexanone                  | ND        |              | 5.0 | 1.2  | ug/L |   |          | 12/16/19 10:58 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0 | 2.1  | ug/L |   |          | 12/16/19 10:58 | 1       |
| Acetone                     | ND        |              | 10  | 3.0  | ug/L |   |          | 12/16/19 10:58 | 1       |
| Acrylonitrile               | ND        |              | 5.0 | 0.83 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.41 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Bromodichloromethane        | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Bromoform                   | ND        |              | 1.0 | 0.26 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Bromomethane                | ND        |              | 1.0 | 0.69 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Carbon disulfide            | ND        |              | 1.0 | 0.19 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Carbon tetrachloride        | ND        |              | 1.0 | 0.27 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Chlorobenzene               | ND        |              | 1.0 | 0.75 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Chlorobromomethane          | ND        |              | 1.0 | 0.87 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Chloroethane                | ND        |              | 1.0 | 0.32 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Chloroform                  | ND        |              | 1.0 | 0.34 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Chloromethane               | ND        |              | 1.0 | 0.35 | ug/L |   |          | 12/16/19 10:58 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 1.0 | 0.81 | ug/L |   |          | 12/16/19 10:58 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 1.0 | 0.36 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Dibromochloromethane        | ND        |              | 1.0 | 0.32 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Dibromomethane              | ND        |              | 1.0 | 0.41 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Ethylbenzene                | ND        |              | 1.0 | 0.74 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Iodomethane                 | ND        |              | 1.0 | 0.30 | ug/L |   |          | 12/16/19 10:58 | 1       |
| m,p-Xylene                  | ND        |              | 2.0 | 0.66 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Methylene Chloride          | ND        |              | 1.0 | 0.44 | ug/L |   |          | 12/16/19 10:58 | 1       |
| o-Xylene                    | ND        |              | 1.0 | 0.76 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Styrene                     | ND        |              | 1.0 | 0.73 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Tetrachloroethene           | ND        |              | 1.0 | 0.36 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Toluene                     | ND        |              | 1.0 | 0.51 | ug/L |   |          | 12/16/19 10:58 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 1.0 | 0.90 | ug/L |   |          | 12/16/19 10:58 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 1.0 | 0.37 | ug/L |   |          | 12/16/19 10:58 | 1       |
| trans-1,4-Dichloro-2-butene | ND        |              | 1.0 | 0.22 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Trichloroethene             | ND        |              | 1.0 | 0.46 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Trichlorofluoromethane      | ND        |              | 1.0 | 0.88 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Vinyl acetate               | ND        |              | 5.0 | 0.85 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Vinyl chloride              | ND        |              | 1.0 | 0.90 | ug/L |   |          | 12/16/19 10:58 | 1       |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: MB 480-509985/7

Matrix: Water

Analysis Batch: 509985

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result | MB Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|------|------|---|----------|----------------|---------|
| Xylenes, Total               | ND        |              | 2.0      | 0.66 | ug/L |   |          | 12/16/19 10:58 | 1       |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110       |              | 77 - 120 |      |      |   |          | 12/16/19 10:58 | 1       |
| 4-Bromofluorobenzene (Surr)  | 108       |              | 73 - 120 |      |      |   |          | 12/16/19 10:58 | 1       |
| Dibromofluoromethane (Surr)  | 110       |              | 75 - 123 |      |      |   |          | 12/16/19 10:58 | 1       |
| Toluene-d8 (Surr)            | 96        |              | 80 - 120 |      |      |   |          | 12/16/19 10:58 | 1       |

Lab Sample ID: LCS 480-509985/5

Matrix: Water

Analysis Batch: 509985

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane   | 25.0        | 23.4       |               | ug/L |   | 94   | 80 - 120     |
| 1,1,1-Trichloroethane       | 25.0        | 24.4       |               | ug/L |   | 98   | 73 - 126     |
| 1,1,2,2-Tetrachloroethane   | 25.0        | 23.0       |               | ug/L |   | 92   | 76 - 120     |
| 1,1,2-Trichloroethane       | 25.0        | 23.1       |               | ug/L |   | 92   | 76 - 122     |
| 1,1-Dichloroethane          | 25.0        | 28.0       |               | ug/L |   | 112  | 77 - 120     |
| 1,1-Dichloroethene          | 25.0        | 29.1       |               | ug/L |   | 116  | 66 - 127     |
| 1,2,3-Trichloropropane      | 25.0        | 24.1       |               | ug/L |   | 96   | 68 - 122     |
| 1,2-Dibromo-3-Chloropropane | 25.0        | 22.1       |               | ug/L |   | 89   | 56 - 134     |
| 1,2-Dibromoethane           | 25.0        | 24.1       |               | ug/L |   | 96   | 77 - 120     |
| 1,2-Dichlorobenzene         | 25.0        | 24.3       |               | ug/L |   | 97   | 80 - 124     |
| 1,2-Dichloroethane          | 25.0        | 24.5       |               | ug/L |   | 98   | 75 - 120     |
| 1,2-Dichloropropane         | 25.0        | 23.5       |               | ug/L |   | 94   | 76 - 120     |
| 1,4-Dichlorobenzene         | 25.0        | 24.0       |               | ug/L |   | 96   | 80 - 120     |
| 2-Butanone (MEK)            | 125         | 143        |               | ug/L |   | 115  | 57 - 140     |
| 2-Hexanone                  | 125         | 120        |               | ug/L |   | 96   | 65 - 127     |
| 4-Methyl-2-pentanone (MIBK) | 125         | 120        |               | ug/L |   | 96   | 71 - 125     |
| Acetone                     | 125         | 214        | *             | ug/L |   | 171  | 56 - 142     |
| Acrylonitrile               | 250         | 326        | *             | ug/L |   | 130  | 63 - 125     |
| Benzene                     | 25.0        | 23.5       |               | ug/L |   | 94   | 71 - 124     |
| Bromodichloromethane        | 25.0        | 23.6       |               | ug/L |   | 94   | 80 - 122     |
| Bromoform                   | 25.0        | 29.1       |               | ug/L |   | 117  | 61 - 132     |
| Bromomethane                | 25.0        | 27.1       |               | ug/L |   | 109  | 55 - 144     |
| Carbon disulfide            | 25.0        | 26.8       |               | ug/L |   | 107  | 59 - 134     |
| Carbon tetrachloride        | 25.0        | 24.8       |               | ug/L |   | 99   | 72 - 134     |
| Chlorobenzene               | 25.0        | 23.2       |               | ug/L |   | 93   | 80 - 120     |
| Chlorobromomethane          | 25.0        | 26.6       |               | ug/L |   | 106  | 72 - 130     |
| Chloroethane                | 25.0        | 26.0       |               | ug/L |   | 104  | 69 - 136     |
| Chloroform                  | 25.0        | 23.0       |               | ug/L |   | 92   | 73 - 127     |
| Chloromethane               | 25.0        | 19.8       |               | ug/L |   | 79   | 68 - 124     |
| cis-1,2-Dichloroethene      | 25.0        | 24.0       |               | ug/L |   | 96   | 74 - 124     |
| cis-1,3-Dichloropropene     | 25.0        | 23.5       |               | ug/L |   | 94   | 74 - 124     |
| Dibromochloromethane        | 25.0        | 25.8       |               | ug/L |   | 103  | 75 - 125     |
| Dibromomethane              | 25.0        | 24.5       |               | ug/L |   | 98   | 76 - 127     |
| Ethylbenzene                | 25.0        | 23.0       |               | ug/L |   | 92   | 77 - 123     |
| Iodomethane                 | 25.0        | 31.2       | *             | ug/L |   | 125  | 78 - 123     |

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: LCS 480-509985/5

Matrix: Water

Analysis Batch: 509985

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| m,p-Xylene                  | 25.0        | 23.8       |               | ug/L |   | 95   | 76 - 122     |
| Methylene Chloride          | 25.0        | 30.2       |               | ug/L |   | 121  | 75 - 124     |
| o-Xylene                    | 25.0        | 23.5       |               | ug/L |   | 94   | 76 - 122     |
| Styrene                     | 25.0        | 23.7       |               | ug/L |   | 95   | 80 - 120     |
| Tetrachloroethene           | 25.0        | 24.0       |               | ug/L |   | 96   | 74 - 122     |
| Toluene                     | 25.0        | 22.1       |               | ug/L |   | 88   | 80 - 122     |
| trans-1,2-Dichloroethene    | 25.0        | 28.8       |               | ug/L |   | 115  | 73 - 127     |
| trans-1,3-Dichloropropene   | 25.0        | 21.8       |               | ug/L |   | 87   | 80 - 120     |
| trans-1,4-Dichloro-2-butene | 25.0        | 20.4       |               | ug/L |   | 82   | 41 - 131     |
| Trichloroethene             | 25.0        | 24.7       |               | ug/L |   | 99   | 74 - 123     |
| Trichlorofluoromethane      | 25.0        | 29.6       |               | ug/L |   | 118  | 62 - 150     |
| Vinyl acetate               | 50.0        | 53.9       |               | ug/L |   | 108  | 50 - 144     |
| Vinyl chloride              | 25.0        | 21.7       |               | ug/L |   | 87   | 65 - 133     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 108           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 109           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 111           |               | 75 - 123 |
| Toluene-d8 (Surr)            | 95            |               | 80 - 120 |

Lab Sample ID: MB 480-510494/7

Matrix: Water

Analysis Batch: 510494

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.35 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.82 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.23 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.38 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,1-Dichloroethene          | ND        |              | 1.0 | 0.29 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0 | 0.89 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2-Dibromoethane           | ND        |              | 1.0 | 0.73 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 1.0 | 0.79 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.72 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 1.0 | 0.84 | ug/L |   |          | 12/18/19 11:28 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.3  | ug/L |   |          | 12/18/19 11:28 | 1       |
| 2-Hexanone                  | ND        |              | 5.0 | 1.2  | ug/L |   |          | 12/18/19 11:28 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0 | 2.1  | ug/L |   |          | 12/18/19 11:28 | 1       |
| Acetone                     | ND        |              | 10  | 3.0  | ug/L |   |          | 12/18/19 11:28 | 1       |
| Acrylonitrile               | ND        |              | 5.0 | 0.83 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.41 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Bromodichloromethane        | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Bromoform                   | ND        |              | 1.0 | 0.26 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Bromomethane                | ND        |              | 1.0 | 0.69 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Carbon disulfide            | ND        |              | 1.0 | 0.19 | ug/L |   |          | 12/18/19 11:28 | 1       |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: MB 480-510494/7

Matrix: Water

Analysis Batch: 510494

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Carbon tetrachloride        | ND           |                 | 1.0 | 0.27 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Chlorobenzene               | ND           |                 | 1.0 | 0.75 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Chlorobromomethane          | ND           |                 | 1.0 | 0.87 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Chloroethane                | ND           |                 | 1.0 | 0.32 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Chloroform                  | ND           |                 | 1.0 | 0.34 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Chloromethane               | ND           |                 | 1.0 | 0.35 | ug/L |   |          | 12/18/19 11:28 | 1       |
| cis-1,2-Dichloroethene      | ND           |                 | 1.0 | 0.81 | ug/L |   |          | 12/18/19 11:28 | 1       |
| cis-1,3-Dichloropropene     | ND           |                 | 1.0 | 0.36 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Dibromochloromethane        | ND           |                 | 1.0 | 0.32 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Dibromomethane              | ND           |                 | 1.0 | 0.41 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Ethylbenzene                | ND           |                 | 1.0 | 0.74 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Iodomethane                 | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 12/18/19 11:28 | 1       |
| m,p-Xylene                  | ND           |                 | 2.0 | 0.66 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Methylene Chloride          | ND           |                 | 1.0 | 0.44 | ug/L |   |          | 12/18/19 11:28 | 1       |
| o-Xylene                    | ND           |                 | 1.0 | 0.76 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Styrene                     | ND           |                 | 1.0 | 0.73 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Tetrachloroethene           | ND           |                 | 1.0 | 0.36 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Toluene                     | ND           |                 | 1.0 | 0.51 | ug/L |   |          | 12/18/19 11:28 | 1       |
| trans-1,2-Dichloroethene    | ND           |                 | 1.0 | 0.90 | ug/L |   |          | 12/18/19 11:28 | 1       |
| trans-1,3-Dichloropropene   | ND           |                 | 1.0 | 0.37 | ug/L |   |          | 12/18/19 11:28 | 1       |
| trans-1,4-Dichloro-2-butene | ND           |                 | 1.0 | 0.22 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Trichloroethene             | ND           |                 | 1.0 | 0.46 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Trichlorofluoromethane      | ND           |                 | 1.0 | 0.88 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Vinyl acetate               | ND           |                 | 5.0 | 0.85 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Vinyl chloride              | ND           |                 | 1.0 | 0.90 | ug/L |   |          | 12/18/19 11:28 | 1       |
| Xylenes, Total              | ND           |                 | 2.0 | 0.66 | ug/L |   |          | 12/18/19 11:28 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109             |                 | 77 - 120 |          | 12/18/19 11:28 | 1       |
| 4-Bromofluorobenzene (Surr)  | 106             |                 | 73 - 120 |          | 12/18/19 11:28 | 1       |
| Dibromofluoromethane (Surr)  | 109             |                 | 75 - 123 |          | 12/18/19 11:28 | 1       |
| Toluene-d8 (Surr)            | 104             |                 | 80 - 120 |          | 12/18/19 11:28 | 1       |

Lab Sample ID: LCS 480-510494/5

Matrix: Water

Analysis Batch: 510494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,1,1,2-Tetrachloroethane   | 25.0           | 23.8          |                  | ug/L |   | 95   | 80 - 120        |
| 1,1,1-Trichloroethane       | 25.0           | 22.9          |                  | ug/L |   | 92   | 73 - 126        |
| 1,1,2,2-Tetrachloroethane   | 25.0           | 23.1          |                  | ug/L |   | 92   | 76 - 120        |
| 1,1,2-Trichloroethane       | 25.0           | 23.0          |                  | ug/L |   | 92   | 76 - 122        |
| 1,1-Dichloroethane          | 25.0           | 22.5          |                  | ug/L |   | 90   | 77 - 120        |
| 1,1-Dichloroethene          | 25.0           | 20.6          |                  | ug/L |   | 82   | 66 - 127        |
| 1,2,3-Trichloropropane      | 25.0           | 22.2          |                  | ug/L |   | 89   | 68 - 122        |
| 1,2-Dibromo-3-Chloropropane | 25.0           | 22.6          |                  | ug/L |   | 90   | 56 - 134        |
| 1,2-Dibromoethane           | 25.0           | 24.7          |                  | ug/L |   | 99   | 77 - 120        |
| 1,2-Dichlorobenzene         | 25.0           | 22.5          |                  | ug/L |   | 90   | 80 - 124        |

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: LCS 480-510494/5

Matrix: Water

Analysis Batch: 510494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichloroethane          | 25.0        | 23.7       |               | ug/L |   | 95   | 75 - 120     |
| 1,2-Dichloropropane         | 25.0        | 23.3       |               | ug/L |   | 93   | 76 - 120     |
| 1,4-Dichlorobenzene         | 25.0        | 21.8       |               | ug/L |   | 87   | 80 - 120     |
| 2-Butanone (MEK)            | 125         | 124        |               | ug/L |   | 99   | 57 - 140     |
| 2-Hexanone                  | 125         | 118        |               | ug/L |   | 94   | 65 - 127     |
| 4-Methyl-2-pentanone (MIBK) | 125         | 121        |               | ug/L |   | 97   | 71 - 125     |
| Acetone                     | 125         | 122        |               | ug/L |   | 97   | 56 - 142     |
| Acrylonitrile               | 250         | 245        |               | ug/L |   | 98   | 63 - 125     |
| Benzene                     | 25.0        | 22.9       |               | ug/L |   | 92   | 71 - 124     |
| Bromodichloromethane        | 25.0        | 24.0       |               | ug/L |   | 96   | 80 - 122     |
| Bromoform                   | 25.0        | 25.6       |               | ug/L |   | 102  | 61 - 132     |
| Bromomethane                | 25.0        | 24.2       |               | ug/L |   | 97   | 55 - 144     |
| Carbon disulfide            | 25.0        | 20.2       |               | ug/L |   | 81   | 59 - 134     |
| Carbon tetrachloride        | 25.0        | 22.7       |               | ug/L |   | 91   | 72 - 134     |
| Chlorobenzene               | 25.0        | 23.0       |               | ug/L |   | 92   | 80 - 120     |
| Chlorobromomethane          | 25.0        | 24.5       |               | ug/L |   | 98   | 72 - 130     |
| Chloroethane                | 25.0        | 22.8       |               | ug/L |   | 91   | 69 - 136     |
| Chloroform                  | 25.0        | 23.2       |               | ug/L |   | 93   | 73 - 127     |
| Chloromethane               | 25.0        | 23.0       |               | ug/L |   | 92   | 68 - 124     |
| cis-1,2-Dichloroethene      | 25.0        | 23.1       |               | ug/L |   | 92   | 74 - 124     |
| cis-1,3-Dichloropropene     | 25.0        | 24.2       |               | ug/L |   | 97   | 74 - 124     |
| Dibromochloromethane        | 25.0        | 25.8       |               | ug/L |   | 103  | 75 - 125     |
| Dibromomethane              | 25.0        | 24.2       |               | ug/L |   | 97   | 76 - 127     |
| Ethylbenzene                | 25.0        | 22.3       |               | ug/L |   | 89   | 77 - 123     |
| Iodomethane                 | 25.0        | 22.4       |               | ug/L |   | 89   | 78 - 123     |
| m,p-Xylene                  | 25.0        | 23.4       |               | ug/L |   | 94   | 76 - 122     |
| Methylene Chloride          | 25.0        | 23.1       |               | ug/L |   | 93   | 75 - 124     |
| o-Xylene                    | 25.0        | 22.6       |               | ug/L |   | 91   | 76 - 122     |
| Styrene                     | 25.0        | 23.6       |               | ug/L |   | 94   | 80 - 120     |
| Tetrachloroethene           | 25.0        | 22.7       |               | ug/L |   | 91   | 74 - 122     |
| Toluene                     | 25.0        | 22.4       |               | ug/L |   | 89   | 80 - 122     |
| trans-1,2-Dichloroethene    | 25.0        | 22.3       |               | ug/L |   | 89   | 73 - 127     |
| trans-1,3-Dichloropropene   | 25.0        | 24.0       |               | ug/L |   | 96   | 80 - 120     |
| trans-1,4-Dichloro-2-butene | 25.0        | 24.0       |               | ug/L |   | 96   | 41 - 131     |
| Trichloroethene             | 25.0        | 22.8       |               | ug/L |   | 91   | 74 - 123     |
| Trichlorofluoromethane      | 25.0        | 23.4       |               | ug/L |   | 94   | 62 - 150     |
| Vinyl acetate               | 50.0        | 49.4       |               | ug/L |   | 99   | 50 - 144     |
| Vinyl chloride              | 25.0        | 22.5       |               | ug/L |   | 90   | 65 - 133     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 106           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 107           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 106           |               | 75 - 123 |
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: MB 480-510709/6

Matrix: Water

Analysis Batch: 510709

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.35 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.82 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.23 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.38 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,1-Dichloroethene          | ND        |              | 1.0 | 0.29 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0 | 0.89 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2-Dibromoethane           | ND        |              | 1.0 | 0.73 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 1.0 | 0.79 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.21 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.72 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 1.0 | 0.84 | ug/L |   |          | 12/18/19 22:13 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.3  | ug/L |   |          | 12/18/19 22:13 | 1       |
| 2-Hexanone                  | ND        |              | 5.0 | 1.2  | ug/L |   |          | 12/18/19 22:13 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0 | 2.1  | ug/L |   |          | 12/18/19 22:13 | 1       |
| Acetone                     | ND        |              | 10  | 3.0  | ug/L |   |          | 12/18/19 22:13 | 1       |
| Acrylonitrile               | ND        |              | 5.0 | 0.83 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.41 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Bromodichloromethane        | ND        |              | 1.0 | 0.39 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Bromoform                   | ND        |              | 1.0 | 0.26 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Bromomethane                | ND        |              | 1.0 | 0.69 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Carbon disulfide            | ND        |              | 1.0 | 0.19 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Carbon tetrachloride        | ND        |              | 1.0 | 0.27 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Chlorobenzene               | ND        |              | 1.0 | 0.75 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Chlorobromomethane          | ND        |              | 1.0 | 0.87 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Chloroethane                | ND        |              | 1.0 | 0.32 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Chloroform                  | ND        |              | 1.0 | 0.34 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Chloromethane               | ND        |              | 1.0 | 0.35 | ug/L |   |          | 12/18/19 22:13 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 1.0 | 0.81 | ug/L |   |          | 12/18/19 22:13 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 1.0 | 0.36 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Dibromochloromethane        | ND        |              | 1.0 | 0.32 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Dibromomethane              | ND        |              | 1.0 | 0.41 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Ethylbenzene                | ND        |              | 1.0 | 0.74 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Iodomethane                 | ND        |              | 1.0 | 0.30 | ug/L |   |          | 12/18/19 22:13 | 1       |
| m,p-Xylene                  | ND        |              | 2.0 | 0.66 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Methylene Chloride          | ND        |              | 1.0 | 0.44 | ug/L |   |          | 12/18/19 22:13 | 1       |
| o-Xylene                    | ND        |              | 1.0 | 0.76 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Styrene                     | ND        |              | 1.0 | 0.73 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Tetrachloroethene           | ND        |              | 1.0 | 0.36 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Toluene                     | ND        |              | 1.0 | 0.51 | ug/L |   |          | 12/18/19 22:13 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 1.0 | 0.90 | ug/L |   |          | 12/18/19 22:13 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 1.0 | 0.37 | ug/L |   |          | 12/18/19 22:13 | 1       |
| trans-1,4-Dichloro-2-butene | ND        |              | 1.0 | 0.22 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Trichloroethene             | ND        |              | 1.0 | 0.46 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Trichlorofluoromethane      | ND        |              | 1.0 | 0.88 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Vinyl acetate               | ND        |              | 5.0 | 0.85 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Vinyl chloride              | ND        |              | 1.0 | 0.90 | ug/L |   |          | 12/18/19 22:13 | 1       |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: MB 480-510709/6

Matrix: Water

Analysis Batch: 510709

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| Xylenes, Total               | ND           |              | 2.0      | 0.66 | ug/L |   |          | 12/18/19 22:13 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96           |              | 77 - 120 |      |      |   |          | 12/18/19 22:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99           |              | 73 - 120 |      |      |   |          | 12/18/19 22:13 | 1       |
| Dibromofluoromethane (Surr)  | 98           |              | 75 - 123 |      |      |   |          | 12/18/19 22:13 | 1       |
| Toluene-d8 (Surr)            | 95           |              | 80 - 120 |      |      |   |          | 12/18/19 22:13 | 1       |

Lab Sample ID: LCS 480-510709/4

Matrix: Water

Analysis Batch: 510709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane   | 25.0        | 22.3       |               | ug/L |   | 89   | 80 - 120     |
| 1,1,1-Trichloroethane       | 25.0        | 22.0       |               | ug/L |   | 88   | 73 - 126     |
| 1,1,2,2-Tetrachloroethane   | 25.0        | 20.0       |               | ug/L |   | 80   | 76 - 120     |
| 1,1,2-Trichloroethane       | 25.0        | 20.8       |               | ug/L |   | 83   | 76 - 122     |
| 1,1-Dichloroethane          | 25.0        | 20.5       |               | ug/L |   | 82   | 77 - 120     |
| 1,1-Dichloroethene          | 25.0        | 21.4       |               | ug/L |   | 86   | 66 - 127     |
| 1,2,3-Trichloropropane      | 25.0        | 20.7       |               | ug/L |   | 83   | 68 - 122     |
| 1,2-Dibromo-3-Chloropropane | 25.0        | 19.9       |               | ug/L |   | 80   | 56 - 134     |
| 1,2-Dibromoethane           | 25.0        | 22.2       |               | ug/L |   | 89   | 77 - 120     |
| 1,2-Dichlorobenzene         | 25.0        | 20.4       |               | ug/L |   | 81   | 80 - 124     |
| 1,2-Dichloroethane          | 25.0        | 21.4       |               | ug/L |   | 86   | 75 - 120     |
| 1,2-Dichloropropane         | 25.0        | 21.7       |               | ug/L |   | 87   | 76 - 120     |
| 1,4-Dichlorobenzene         | 25.0        | 20.2       |               | ug/L |   | 81   | 80 - 120     |
| 2-Butanone (MEK)            | 125         | 109        |               | ug/L |   | 88   | 57 - 140     |
| 2-Hexanone                  | 125         | 112        |               | ug/L |   | 89   | 65 - 127     |
| 4-Methyl-2-pentanone (MIBK) | 125         | 106        |               | ug/L |   | 85   | 71 - 125     |
| Acetone                     | 125         | 108        |               | ug/L |   | 86   | 56 - 142     |
| Acrylonitrile               | 250         | 212        |               | ug/L |   | 85   | 63 - 125     |
| Benzene                     | 25.0        | 21.2       |               | ug/L |   | 85   | 71 - 124     |
| Bromodichloromethane        | 25.0        | 22.6       |               | ug/L |   | 90   | 80 - 122     |
| Bromoform                   | 25.0        | 23.3       |               | ug/L |   | 93   | 61 - 132     |
| Bromomethane                | 25.0        | 21.2       |               | ug/L |   | 85   | 55 - 144     |
| Carbon disulfide            | 25.0        | 20.6       |               | ug/L |   | 82   | 59 - 134     |
| Carbon tetrachloride        | 25.0        | 22.2       |               | ug/L |   | 89   | 72 - 134     |
| Chlorobenzene               | 25.0        | 21.6       |               | ug/L |   | 86   | 80 - 120     |
| Chlorobromomethane          | 25.0        | 22.3       |               | ug/L |   | 89   | 72 - 130     |
| Chloroethane                | 25.0        | 18.8       |               | ug/L |   | 75   | 69 - 136     |
| Chloroform                  | 25.0        | 21.4       |               | ug/L |   | 86   | 73 - 127     |
| Chloromethane               | 25.0        | 19.9       |               | ug/L |   | 79   | 68 - 124     |
| cis-1,2-Dichloroethene      | 25.0        | 21.8       |               | ug/L |   | 87   | 74 - 124     |
| cis-1,3-Dichloropropene     | 25.0        | 22.6       |               | ug/L |   | 91   | 74 - 124     |
| Dibromochloromethane        | 25.0        | 23.3       |               | ug/L |   | 93   | 75 - 125     |
| Dibromomethane              | 25.0        | 21.7       |               | ug/L |   | 87   | 76 - 127     |
| Ethylbenzene                | 25.0        | 20.8       |               | ug/L |   | 83   | 77 - 123     |
| Iodomethane                 | 25.0        | 21.8       |               | ug/L |   | 87   | 78 - 123     |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

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

Lab Sample ID: LCS 480-510709/4

Matrix: Water

Analysis Batch: 510709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| m,p-Xylene                  | 25.0        | 21.8       |               | ug/L |   | 87   | 76 - 122     |
| Methylene Chloride          | 25.0        | 21.3       |               | ug/L |   | 85   | 75 - 124     |
| o-Xylene                    | 25.0        | 20.9       |               | ug/L |   | 84   | 76 - 122     |
| Styrene                     | 25.0        | 22.3       |               | ug/L |   | 89   | 80 - 120     |
| Tetrachloroethene           | 25.0        | 21.9       |               | ug/L |   | 88   | 74 - 122     |
| Toluene                     | 25.0        | 21.1       |               | ug/L |   | 84   | 80 - 122     |
| trans-1,2-Dichloroethene    | 25.0        | 21.3       |               | ug/L |   | 85   | 73 - 127     |
| trans-1,3-Dichloropropene   | 25.0        | 21.4       |               | ug/L |   | 86   | 80 - 120     |
| trans-1,4-Dichloro-2-butene | 25.0        | 20.6       |               | ug/L |   | 82   | 41 - 131     |
| Trichloroethene             | 25.0        | 21.8       |               | ug/L |   | 87   | 74 - 123     |
| Trichlorofluoromethane      | 25.0        | 22.1       |               | ug/L |   | 89   | 62 - 150     |
| Vinyl acetate               | 50.0        | 44.2       |               | ug/L |   | 88   | 50 - 144     |
| Vinyl chloride              | 25.0        | 20.4       |               | ug/L |   | 82   | 65 - 133     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 96            |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 99            |               | 75 - 123 |
| Toluene-d8 (Surr)            | 94            |               | 80 - 120 |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-510224/1-A

Matrix: Water

Analysis Batch: 510599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 510224

| Analyte          | MB Result    | MB Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | ND           |              | 0.20     | 0.10 | ug/L |   | 12/17/19 08:31 | 12/18/19 21:22 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 26           |              | 15 - 110 |      |      |   | 12/17/19 08:31 | 12/18/19 21:22 | 1       |

Lab Sample ID: LCS 480-510224/2-A

Matrix: Water

Analysis Batch: 510599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 510224

|                  |           |           | Spike    | LCS    | LCS       |      |   |      | %Rec.    |  |  |
|------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|--|--|
| Analyte          |           |           | Added    | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |
| 1,4-Dioxane      |           |           | 1.00     | 1.12   |           | ug/L | - | 112  | 40 - 140 |  |  |
| Isotope Dilution | LCS       | LCS       |          |        |           |      |   |      |          |  |  |
|                  | %Recovery | Qualifier | Limits   |        |           |      |   |      |          |  |  |
| 1,4-Dioxane-d8   | 25        |           | 15 - 110 |        |           |      |   |      |          |  |  |

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 8270D\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 480-510038/1-A

Matrix: Water

Analysis Batch: 511172

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 510038

| Analyte                | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |              | 0.50 | 0.30  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Acenaphthylene         | ND        |              | 0.50 | 0.34  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Anthracene             | ND        |              | 0.50 | 0.39  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Benzo[a]anthracene     | ND        |              | 0.50 | 0.40  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Benzo[a]pyrene         | ND        |              | 0.50 | 0.33  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 0.50 | 0.30  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Benzo[g,h,i]perylene   | ND        |              | 0.50 | 0.37  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 0.50 | 0.085 | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Chrysene               | ND        |              | 0.50 | 0.32  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 0.50 | 0.33  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Fluoranthene           | ND        |              | 0.50 | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Fluorene               | ND        |              | 0.50 | 0.37  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 0.50 | 0.44  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Naphthalene            | ND        |              | 0.50 | 0.42  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Phenanthrene           | ND        |              | 0.50 | 0.38  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Pyrene                 | ND        |              | 0.50 | 0.36  | ug/L |   | 12/16/19 08:59 | 12/21/19 06:14 | 1       |

| Surrogate        | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 90           |              | 48 - 120 | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| Nitrobenzene-d5  | 93           |              | 46 - 120 | 12/16/19 08:59 | 12/21/19 06:14 | 1       |
| p-Terphenyl-d14  | 85           |              | 24 - 136 | 12/16/19 08:59 | 12/21/19 06:14 | 1       |

Lab Sample ID: LCS 480-510038/2-A

Matrix: Water

Analysis Batch: 511172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 510038

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Acenaphthene           | 32.0        | 27.6       |               | ug/L |   | 86   | 60 - 120     |
| Acenaphthylene         | 32.0        | 28.2       |               | ug/L |   | 88   | 63 - 120     |
| Anthracene             | 32.0        | 30.1       |               | ug/L |   | 94   | 69 - 131     |
| Benzo[a]anthracene     | 32.0        | 28.3       |               | ug/L |   | 89   | 62 - 142     |
| Benzo[a]pyrene         | 32.0        | 28.1       |               | ug/L |   | 88   | 46 - 156     |
| Benzo[b]fluoranthene   | 32.0        | 28.2       |               | ug/L |   | 88   | 50 - 149     |
| Benzo[g,h,i]perylene   | 32.0        | 30.4       |               | ug/L |   | 95   | 34 - 189     |
| Benzo[k]fluoranthene   | 32.0        | 29.5       |               | ug/L |   | 92   | 47 - 147     |
| Chrysene               | 32.0        | 29.2       |               | ug/L |   | 91   | 69 - 140     |
| Dibenz(a,h)anthracene  | 32.0        | 31.5       |               | ug/L |   | 98   | 35 - 176     |
| Fluoranthene           | 32.0        | 30.9       |               | ug/L |   | 97   | 67 - 133     |
| Fluorene               | 32.0        | 28.4       |               | ug/L |   | 89   | 66 - 129     |
| Indeno[1,2,3-cd]pyrene | 32.0        | 30.7       |               | ug/L |   | 96   | 57 - 161     |
| Naphthalene            | 32.0        | 26.3       |               | ug/L |   | 82   | 48 - 120     |
| Phenanthrene           | 32.0        | 28.3       |               | ug/L |   | 89   | 67 - 130     |
| Pyrene                 | 32.0        | 28.0       |               | ug/L |   | 88   | 58 - 136     |

| Surrogate        | LCS %Recovery | LCS Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl | 86            |               | 48 - 120 |
| Nitrobenzene-d5  | 93            |               | 46 - 120 |
| p-Terphenyl-d14  | 84            |               | 24 - 136 |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-150808/1-A

Matrix: Water

Analysis Batch: 150850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 150808

| Analyte                                                  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | ND        |              | 20  | 2.9  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | ND        |              | 20  | 5.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND        |              | 20  | 1.5  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND        |              | 20  | 1.7  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND        |              | 2.0 | 0.49 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorobutanoic acid (PFBA)                            | 1.08      | J            | 2.0 | 1.0  | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND        |              | 2.0 | 0.90 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND        |              | 2.0 | 0.77 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND        |              | 2.0 | 0.59 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND        |              | 2.0 | 0.95 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND        |              | 2.0 | 0.91 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND        |              | 2.0 | 0.80 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND        |              | 2.0 | 0.76 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorononanoic acid (PFNA)                            | 0.272     | J            | 2.0 | 0.27 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | ND        |              | 10  | 10   | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND        |              | 2.0 | 0.61 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND        |              | 2.0 | 0.81 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND        |              | 2.0 | 0.63 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND        |              | 2.0 | 0.92 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND        |              | 2.0 | 0.60 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 0.792     | J            | 2.0 | 0.78 | ng/L |   | 12/17/19 15:27 | 12/18/19 19:12 | 1       |

| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| 13C2 PFDA        | 97           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C2 PFDoA       | 79           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C2 PFHxA       | 107          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C2 PFUnA       | 95           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C2 PFTeDA      | 75           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C4 PFBA        | 96           |              | 25 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C4 PFOA        | 114          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C4 PFOS        | 109          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C4 PFHpA       | 116          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C5 PFNA        | 101          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C5 PFPeA       | 117          |              | 25 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 13C8 FOSA        | 75           |              | 25 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| 18O2 PFHxS       | 110          |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| d3-NMeFOSAA      | 81           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| d5-NEtFOSAA      | 80           |              | 50 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| M2-6:2 FTS       | 87           |              | 25 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |
| M2-8:2 FTS       | 100          |              | 25 - 150 | 12/17/19 15:27 | 12/18/19 19:12 | 1       |

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-150808/2-A

Matrix: Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150808

| Analyte                                                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 38.3        | 37.9       |               | ng/L |   | 99   | 50 - 150     |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 37.9        | 35.9       |               | ng/L |   | 95   | 50 - 150     |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 40.0        | 37.2       |               | ng/L |   | 93   | 70 - 130     |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0        | 50.8       |               | ng/L |   | 127  | 70 - 130     |
| Perfluorobutanesulfonic acid (PFBS)                      | 35.4        | 33.6       |               | ng/L |   | 95   | 70 - 130     |
| Perfluorobutanoic acid (PFBA)                            | 40.0        | 43.5       |               | ng/L |   | 109  | 50 - 150     |
| Perfluorodecanesulfonic acid (PFDS)                      | 38.6        | 36.2       |               | ng/L |   | 94   | 50 - 150     |
| Perfluorodecanoic acid (PFDA)                            | 40.0        | 42.7       |               | ng/L |   | 107  | 70 - 130     |
| Perfluorododecanoic acid (PFDoA)                         | 40.0        | 49.1       |               | ng/L |   | 123  | 70 - 130     |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 38.1        | 39.0       |               | ng/L |   | 103  | 50 - 150     |
| Perfluoroheptanoic acid (PFHpA)                          | 40.0        | 39.9       |               | ng/L |   | 100  | 70 - 130     |
| Perfluorohexanesulfonic acid (PFHxS)                     | 36.4        | 36.0       |               | ng/L |   | 99   | 70 - 130     |
| Perfluorohexanoic acid (PFHxA)                           | 40.0        | 39.7       |               | ng/L |   | 99   | 70 - 130     |
| Perfluorononanoic acid (PFNA)                            | 40.0        | 37.6       |               | ng/L |   | 94   | 70 - 130     |
| Perfluorooctanesulfonamide (PFOSA)                       | 40.0        | 37.0       |               | ng/L |   | 92   | 50 - 150     |
| Perfluorooctanesulfonic acid (PFOS)                      | 37.1        | 39.5       |               | ng/L |   | 107  | 70 - 130     |
| Perfluorooctanoic acid (PFOA)                            | 40.0        | 35.8       |               | ng/L |   | 90   | 70 - 130     |
| Perfluoropentanoic acid (PFPeA)                          | 40.0        | 34.9       |               | ng/L |   | 87   | 50 - 150     |
| Perfluorotetradecanoic acid (PFTeA)                      | 40.0        | 51.5       |               | ng/L |   | 129  | 70 - 130     |
| Perfluorotridecanoic acid (PFTriA)                       | 40.0        | 41.1       |               | ng/L |   | 103  | 70 - 130     |
| Perfluoroundecanoic acid (PFUnA)                         | 40.0        | 43.4       |               | ng/L |   | 108  | 70 - 130     |

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 13C2 PFDA        | 103           |               | 50 - 150 |
| 13C2 PFDoA       | 70            |               | 50 - 150 |
| 13C2 PFHxA       | 119           |               | 50 - 150 |
| 13C2 PFUnA       | 95            |               | 50 - 150 |
| 13C2 PFTeA       | 79            |               | 50 - 150 |
| 13C4 PFBA        | 105           |               | 25 - 150 |
| 13C4 PFOA        | 115           |               | 50 - 150 |
| 13C4 PFOS        | 113           |               | 50 - 150 |
| 13C4 PFHpA       | 115           |               | 50 - 150 |
| 13C5 PFNA        | 118           |               | 50 - 150 |
| 13C5 PFPeA       | 128           |               | 25 - 150 |
| 13C8 FOSA        | 70            |               | 25 - 150 |
| 18O2 PFHxS       | 112           |               | 50 - 150 |
| d3-NMeFOSAA      | 79            |               | 50 - 150 |
| d5-NEtFOSAA      | 86            |               | 50 - 150 |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-150808/2-A

Matrix: Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150808

| Isotope Dilution | LCS       |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| M2-6:2 FTS       | 87        |           | 25 - 150 |
| M2-8:2 FTS       | 112       |           | 25 - 150 |

Lab Sample ID: LCSD 200-150808/3-A

Matrix: Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 150808

| Analyte                                                  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits |       | RPD |       |
|----------------------------------------------------------|-------------|-------------|----------------|------|---|------|--------------|-------|-----|-------|
|                                                          |             |             |                |      |   |      | RPD          | Limit | RPD | Limit |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 38.3        | 38.7        |                | ng/L |   | 101  | 50 - 150     | 2     | 30  |       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 37.9        | 37.8        |                | ng/L |   | 100  | 50 - 150     | 5     | 30  |       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NetFOSAA)  | 40.0        | 35.5        |                | ng/L |   | 89   | 70 - 130     | 5     | 20  |       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0        | 35.9        | *              | ng/L |   | 90   | 70 - 130     | 34    | 20  |       |
| Perfluorobutanesulfonic acid (PFBS)                      | 35.4        | 33.3        |                | ng/L |   | 94   | 70 - 130     | 1     | 20  |       |
| Perfluorobutanoic acid (PFBA)                            | 40.0        | 42.7        |                | ng/L |   | 107  | 50 - 150     | 2     | 30  |       |
| Perfluorodecanesulfonic acid (PFDS)                      | 38.6        | 38.0        |                | ng/L |   | 99   | 50 - 150     | 5     | 30  |       |
| Perfluorodecanoic acid (PFDA)                            | 40.0        | 46.6        |                | ng/L |   | 117  | 70 - 130     | 9     | 20  |       |
| Perfluorododecanoic acid (PFDoA)                         | 40.0        | 45.5        |                | ng/L |   | 114  | 70 - 130     | 8     | 20  |       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 38.1        | 41.5        |                | ng/L |   | 109  | 50 - 150     | 6     | 30  |       |
| Perfluoroheptanoic acid (PFHpA)                          | 40.0        | 34.8        |                | ng/L |   | 87   | 70 - 130     | 14    | 20  |       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 36.4        | 36.5        |                | ng/L |   | 100  | 70 - 130     | 1     | 20  |       |
| Perfluorohexanoic acid (PFHxA)                           | 40.0        | 39.4        |                | ng/L |   | 99   | 70 - 130     | 1     | 20  |       |
| Perfluorononanoic acid (PFNA)                            | 40.0        | 35.9        |                | ng/L |   | 90   | 70 - 130     | 5     | 20  |       |
| Perfluorooctanesulfonamide (PFOSA)                       | 40.0        | 31.6        |                | ng/L |   | 79   | 50 - 150     | 16    | 30  |       |
| Perfluorooctanesulfonic acid (PFOS)                      | 37.1        | 41.2        |                | ng/L |   | 111  | 70 - 130     | 4     | 20  |       |
| Perfluorooctanoic acid (PFOA)                            | 40.0        | 36.0        |                | ng/L |   | 90   | 70 - 130     | 0     | 20  |       |
| Perfluoropentanoic acid (PFPeA)                          | 40.0        | 33.9        |                | ng/L |   | 85   | 50 - 150     | 3     | 30  |       |
| Perfluorotetradecanoic acid (PFTeA)                      | 40.0        | 51.9        |                | ng/L |   | 130  | 70 - 130     | 1     | 20  |       |
| Perfluorotridecanoic acid (PFTriA)                       | 40.0        | 39.8        |                | ng/L |   | 99   | 70 - 130     | 3     | 20  |       |
| Perfluoroundecanoic acid (PFUnA)                         | 40.0        | 39.6        |                | ng/L |   | 99   | 70 - 130     | 9     | 20  |       |

| Isotope Dilution | LCSD      |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 13C2 PFDA        | 98        |           | 50 - 150 |
| 13C2 PFDoA       | 81        |           | 50 - 150 |
| 13C2 PFHxA       | 116       |           | 50 - 150 |
| 13C2 PFUnA       | 95        |           | 50 - 150 |
| 13C2 PFTeDA      | 82        |           | 50 - 150 |
| 13C4 PFBA        | 105       |           | 25 - 150 |
| 13C4 PFOA        | 118       |           | 50 - 150 |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 200-150808/3-A

Matrix: Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 150808

| Isotope Dilution | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|------------------|-------------------|-------------------|----------|
| 13C4 PFOS        | 108               |                   | 50 - 150 |
| 13C4 PFHpA       | 129               |                   | 50 - 150 |
| 13C5 PFNA        | 114               |                   | 50 - 150 |
| 13C5 PFPeA       | 129               |                   | 25 - 150 |
| 13C8 FOSA        | 79                |                   | 25 - 150 |
| 18O2 PFHxS       | 113               |                   | 50 - 150 |
| d3-NMeFOSAA      | 88                |                   | 50 - 150 |
| d5-NEtFOSAA      | 82                |                   | 50 - 150 |
| M2-6:2 FTS       | 85                |                   | 25 - 150 |
| M2-8:2 FTS       | 103               |                   | 25 - 150 |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-509937/1-A

Matrix: Water

Analysis Batch: 510715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509937

| Analyte   | MB<br>Result | MB<br>Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------------|-----------------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND           |                 | 0.20   | 0.060   | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Antimony  | ND           |                 | 0.020  | 0.0068  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Barium    | ND           |                 | 0.0020 | 0.00070 | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Beryllium | ND           |                 | 0.0020 | 0.00030 | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Cadmium   | ND           |                 | 0.0020 | 0.00050 | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Calcium   | ND           |                 | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Cobalt    | ND           |                 | 0.0040 | 0.00063 | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Copper    | ND           |                 | 0.010  | 0.0016  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Iron      | ND           |                 | 0.050  | 0.019   | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Lead      | ND           |                 | 0.010  | 0.0030  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Magnesium | ND           |                 | 0.20   | 0.043   | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Manganese | 0.000870     | J               | 0.0030 | 0.00040 | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Nickel    | ND           |                 | 0.010  | 0.0013  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Potassium | ND           |                 | 0.50   | 0.10    | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Silver    | ND           |                 | 0.0060 | 0.0017  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Sodium    | ND           |                 | 1.0    | 0.32    | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Thallium  | ND           |                 | 0.020  | 0.010   | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |
| Vanadium  | ND           |                 | 0.0050 | 0.0015  | mg/L |   | 12/16/19 10:23 | 12/18/19 21:11 | 1       |

Lab Sample ID: MB 480-509937/1-A

Matrix: Water

Analysis Batch: 511243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509937

| Analyte  | MB<br>Result | MB<br>Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND           |                 | 0.015  | 0.0056 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:22 | 1       |
| Chromium | ND           |                 | 0.0040 | 0.0010 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:22 | 1       |
| Selenium | ND           |                 | 0.025  | 0.0087 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:22 | 1       |
| Zinc     | ND           |                 | 0.010  | 0.0015 | mg/L |   | 12/16/19 10:23 | 12/20/19 22:22 | 1       |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-509937/1-A

Matrix: Water

Analysis Batch: 511560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509937

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|--------|------|---|----------------|----------------|---------|
| Boron   | ND           |                 | 0.020 | 0.0040 | mg/L |   | 12/16/19 10:23 | 12/23/19 17:04 | 1       |

Lab Sample ID: LCS 480-509937/2-A

Matrix: Water

Analysis Batch: 510715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509937

| Analyte   | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------|----------------|---------------|------------------|------|---|------|-----------------|
| Aluminum  | 10.0           | 10.50         |                  | mg/L |   | 105  | 80 - 120        |
| Antimony  | 0.200          | 0.231         |                  | mg/L |   | 116  | 80 - 120        |
| Barium    | 0.200          | 0.228         |                  | mg/L |   | 114  | 80 - 120        |
| Beryllium | 0.200          | 0.210         |                  | mg/L |   | 105  | 80 - 120        |
| Cadmium   | 0.200          | 0.206         |                  | mg/L |   | 103  | 80 - 120        |
| Calcium   | 10.0           | 10.88         |                  | mg/L |   | 109  | 80 - 120        |
| Cobalt    | 0.200          | 0.207         |                  | mg/L |   | 104  | 80 - 120        |
| Copper    | 0.200          | 0.195         |                  | mg/L |   | 97   | 80 - 120        |
| Iron      | 10.0           | 10.02         |                  | mg/L |   | 100  | 80 - 120        |
| Lead      | 0.200          | 0.206         |                  | mg/L |   | 103  | 80 - 120        |
| Magnesium | 10.0           | 11.04         |                  | mg/L |   | 110  | 80 - 120        |
| Manganese | 0.200          | 0.206         |                  | mg/L |   | 103  | 80 - 120        |
| Nickel    | 0.200          | 0.202         |                  | mg/L |   | 101  | 80 - 120        |
| Potassium | 10.0           | 9.63          |                  | mg/L |   | 96   | 80 - 120        |
| Silver    | 0.0500         | 0.0543        |                  | mg/L |   | 109  | 80 - 120        |
| Sodium    | 10.0           | 9.73          |                  | mg/L |   | 97   | 80 - 120        |
| Thallium  | 0.200          | 0.202         |                  | mg/L |   | 101  | 80 - 120        |
| Vanadium  | 0.200          | 0.202         |                  | mg/L |   | 101  | 80 - 120        |

Lab Sample ID: LCS 480-509937/2-A

Matrix: Water

Analysis Batch: 511243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509937

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Arsenic  | 0.200          | 0.199         |                  | mg/L |   | 99   | 80 - 120        |
| Chromium | 0.200          | 0.199         |                  | mg/L |   | 100  | 80 - 120        |
| Selenium | 0.200          | 0.192         |                  | mg/L |   | 96   | 80 - 120        |
| Zinc     | 0.200          | 0.198         |                  | mg/L |   | 99   | 80 - 120        |

Lab Sample ID: LCS 480-509937/2-A

Matrix: Water

Analysis Batch: 511560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509937

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Boron   | 0.200          | 0.200         |                  | mg/L |   | 100  | 80 - 120        |

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-511436/1-A  
Matrix: Water  
Analysis Batch: 511525

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 511436

| Analyte | MB Result | MB Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.00020 | 0.00012 | mg/L |   | 12/23/19 12:08 | 12/23/19 16:04 | 1       |

Lab Sample ID: LCS 480-511436/2-A  
Matrix: Water  
Analysis Batch: 511525

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 511436

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 0.00667     | 0.00688    |               | mg/L |   | 103  | 80 - 120     |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-510058/28  
Matrix: Water  
Analysis Batch: 510058

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Bromide  | ND        |              | 0.20 | 0.073 | mg/L |   |          | 12/16/19 19:36 | 1       |
| Chloride | ND        |              | 0.50 | 0.28  | mg/L |   |          | 12/16/19 19:36 | 1       |
| Sulfate  | ND        |              | 2.0  | 0.35  | mg/L |   |          | 12/16/19 19:36 | 1       |

Lab Sample ID: LCS 480-510058/27  
Matrix: Water  
Analysis Batch: 510058

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Bromide  | 5.00        | 5.31       |               | mg/L |   | 106  | 90 - 110     |
| Chloride | 50.0        | 49.99      |               | mg/L |   | 100  | 90 - 110     |
| Sulfate  | 50.0        | 51.35      |               | mg/L |   | 103  | 90 - 110     |

Lab Sample ID: 480-164158-1 MS  
Matrix: Water  
Analysis Batch: 510058

Client Sample ID: 3-WES-006-001-01  
Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Bromide  | 2.3           |                  | 25.0        | 26.54     |              | mg/L |   | 97   | 80 - 120     |
| Chloride | 110           |                  | 250         | 338.1     |              | mg/L |   | 91   | 81 - 120     |
| Sulfate  | 15.7          |                  | 250         | 257.8     |              | mg/L |   | 97   | 80 - 120     |

Lab Sample ID: MB 480-510364/4  
Matrix: Water  
Analysis Batch: 510364

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Bromide  | ND        | ^            | 0.20 | 0.073 | mg/L |   |          | 12/17/19 22:53 | 1       |
| Chloride | ND        |              | 0.50 | 0.28  | mg/L |   |          | 12/17/19 22:53 | 1       |
| Sulfate  | ND        |              | 2.0  | 0.35  | mg/L |   |          | 12/17/19 22:53 | 1       |

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-510364/3

Matrix: Water

Analysis Batch: 510364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Bromide  | 5.00        | 5.57       | ^ *           | mg/L |   | 111  | 90 - 110     |
| Chloride | 50.0        | 52.86      |               | mg/L |   | 106  | 90 - 110     |
| Sulfate  | 50.0        | 53.59      |               | mg/L |   | 107  | 90 - 110     |

Lab Sample ID: 480-164158-6 MS

Matrix: Water

Analysis Batch: 510364

Client Sample ID: 3-WES-006-001-06

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Bromide  | ND            | ^ *              | 50.0        | 57.95     | ^            | mg/L |   | 116  | 80 - 120     |
| Chloride | 680           |                  | 500         | 1156      | E            | mg/L |   | 95   | 81 - 120     |
| Sulfate  | 53.4          |                  | 500         | 630.6     |              | mg/L |   | 115  | 80 - 120     |

Lab Sample ID: 480-164158-6 MSD

Matrix: Water

Analysis Batch: 510364

Client Sample ID: 3-WES-006-001-06

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Bromide  | ND            | ^ *              | 50.0        | 57.41      | ^             | mg/L |   | 115  | 80 - 120     | 1   | 15        |
| Chloride | 680           |                  | 500         | 1161       | E             | mg/L |   | 96   | 81 - 120     | 0   | 15        |
| Sulfate  | 53.4          |                  | 500         | 634.3      |               | mg/L |   | 116  | 80 - 120     | 1   | 15        |

Lab Sample ID: MB 480-510785/4

Matrix: Water

Analysis Batch: 510785

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Bromide  | ND        |              | 0.20 | 0.073 | mg/L |   |          | 12/19/19 12:41 | 1       |
| Chloride | ND        |              | 0.50 | 0.28  | mg/L |   |          | 12/19/19 12:41 | 1       |
| Sulfate  | ND        |              | 2.0  | 0.35  | mg/L |   |          | 12/19/19 12:41 | 1       |

Lab Sample ID: LCS 480-510785/3

Matrix: Water

Analysis Batch: 510785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Bromide  | 5.00        | 4.96       |               | mg/L |   | 99   | 90 - 110     |
| Chloride | 50.0        | 50.48      |               | mg/L |   | 101  | 90 - 110     |
| Sulfate  | 50.0        | 49.86      |               | mg/L |   | 100  | 90 - 110     |

Lab Sample ID: 480-164158-5 MS

Matrix: Water

Analysis Batch: 510785

Client Sample ID: 3-WES-006-001-05

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Bromide  | 0.40          |                  | 10.0        | 9.89      |              | mg/L |   | 95   | 80 - 120     |
| Chloride | 106           |                  | 100         | 196.7     |              | mg/L |   | 90   | 81 - 120     |
| Sulfate  | 37.7          |                  | 100         | 119.2     |              | mg/L |   | 81   | 80 - 120     |

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-164158-5 MSD

Matrix: Water

Analysis Batch: 510785

Client Sample ID: 3-WES-006-001-05

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Bromide  | 0.40          |                  | 10.0        | 9.95       |               | mg/L |   | 96   | 80 - 120     | 1   | 15        |
| Chloride | 106           |                  | 100         | 197.0      |               | mg/L |   | 91   | 81 - 120     | 0   | 15        |
| Sulfate  | 37.7          |                  | 100         | 119.5      |               | mg/L |   | 82   | 80 - 120     | 0   | 15        |

## Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-510099/27

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia | ND        |              | 0.020 | 0.0090 | mg/L |   |          | 12/16/19 12:03 | 1       |

Lab Sample ID: MB 480-510099/75

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia | ND        |              | 0.020 | 0.0090 | mg/L |   |          | 12/16/19 12:44 | 1       |

Lab Sample ID: MB 480-510099/99

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia | ND        |              | 0.020 | 0.0090 | mg/L |   |          | 12/16/19 13:04 | 1       |

Lab Sample ID: LCS 480-510099/100

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia | 1.00        | 1.05       |               | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: LCS 480-510099/28

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia | 1.00        | 1.06       |               | mg/L |   | 106  | 90 - 110     |

Lab Sample ID: LCS 480-510099/76

Matrix: Water

Analysis Batch: 510099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia | 1.00        | 1.06       |               | mg/L |   | 106  | 90 - 110     |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-164158-1 MS

Matrix: Water

Analysis Batch: 510099

Client Sample ID: 3-WES-006-001-01

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Ammonia | 11.1          |                  | 2.00        | 13.20     | 4            | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: 480-164158-1 DU

Matrix: Water

Analysis Batch: 510099

Client Sample ID: 3-WES-006-001-01

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Ammonia | 11.1          |                  | 11.60     |              | mg/L |   | 4   | 20        |

## Method: 410.4 - COD

Lab Sample ID: MB 480-510282/28

Matrix: Water

Analysis Batch: 510282

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Chemical Oxygen Demand | ND        |              | 10.0 | 5.0 | mg/L |   |          | 12/14/19 18:47 | 1       |

Lab Sample ID: LCS 480-510282/29

Matrix: Water

Analysis Batch: 510282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Chemical Oxygen Demand | 25.0        | 25.67      |               | mg/L |   | 103  | 90 - 110     |

Lab Sample ID: MB 480-511102/4

Matrix: Water

Analysis Batch: 511102

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Chemical Oxygen Demand | ND        |              | 10.0 | 5.0 | mg/L |   |          | 12/19/19 19:01 | 1       |

Lab Sample ID: LCS 480-511102/5

Matrix: Water

Analysis Batch: 511102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Chemical Oxygen Demand | 25.0        | 24.61      |               | mg/L |   | 98   | 90 - 110     |

## Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-511961/51

Matrix: Water

Analysis Batch: 511961

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Total Organic Carbon | ND        |              | 1.0 | 0.43 | mg/L |   |          | 12/25/19 18:13 | 1       |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-511961/52

Matrix: Water

Analysis Batch: 511961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 60.0        | 57.37      |               | mg/L |   | 96   | 90 - 110     |

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-510952/30

Matrix: Water

Analysis Batch: 510952

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte           | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Alkalinity, Total | ND        |              | 5.0 | 0.79 | mg/L |   |          | 12/19/19 14:04 | 1       |

Lab Sample ID: LCS 480-510952/31

Matrix: Water

Analysis Batch: 510952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|------|---|------|--------------|
| Alkalinity, Total | 100         | 90.96      |               | mg/L |   | 91   | 90 - 110     |

Lab Sample ID: MB 480-511935/30

Matrix: Water

Analysis Batch: 511935

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte           | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Alkalinity, Total | ND        |              | 5.0 | 0.79 | mg/L |   |          | 12/26/19 21:52 | 1       |

Lab Sample ID: MB 480-511935/7

Matrix: Water

Analysis Batch: 511935

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte           | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Alkalinity, Total | 1.73      | J            | 5.0 | 0.79 | mg/L |   |          | 12/26/19 18:33 | 1       |

Lab Sample ID: LCS 480-511935/31

Matrix: Water

Analysis Batch: 511935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|------|---|------|--------------|
| Alkalinity, Total | 100         | 94.76      |               | mg/L |   | 95   | 90 - 110     |

Lab Sample ID: LCS 480-511935/8

Matrix: Water

Analysis Batch: 511935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|------|---|------|--------------|
| Alkalinity, Total | 100         | 94.61      |               | mg/L |   | 95   | 90 - 110     |

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# QC Sample Results

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Method: SM 2340C - Hardness, Total (mg/l as CaCO3)

Lab Sample ID: MB 480-510674/3

Matrix: Water

Analysis Batch: 510674

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Total hardness as CaCO3 | ND           |                 | 2.0 | 0.53 | mg/L |   |          | 12/18/19 09:42 | 1       |

Lab Sample ID: LCS 480-510674/4

Matrix: Water

Analysis Batch: 510674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total hardness as CaCO3 | 272            | 272.0         |                  | mg/L |   | 100  | 90 - 110        |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-510350/1

Matrix: Water

Analysis Batch: 510350

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | ND           |                 | 10.0 | 4.0 | mg/L |   |          | 12/17/19 13:44 | 1       |

Lab Sample ID: LCS 480-510350/2

Matrix: Water

Analysis Batch: 510350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Dissolved Solids | 500            | 447.0         |                  | mg/L |   | 89   | 85 - 115        |

# QC Association Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## GC/MS VOA

### Analysis Batch: 509985

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-7     | 3-WES-006-001-07   | Total/NA  | Water  | 8260C  |            |
| MB 480-509985/7  | Method Blank       | Total/NA  | Water  | 8260C  |            |
| LCS 480-509985/5 | Lab Control Sample | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 510494

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1     | 3-WES-006-001-01   | Total/NA  | Water  | 8260C  |            |
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | 8260C  |            |
| MB 480-510494/7  | Method Blank       | Total/NA  | Water  | 8260C  |            |
| LCS 480-510494/5 | Lab Control Sample | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 510709

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | 8260C  |            |
| 480-164158-6     | 3-WES-006-001-06   | Total/NA  | Water  | 8260C  |            |
| MB 480-510709/6  | Method Blank       | Total/NA  | Water  | 8260C  |            |
| LCS 480-510709/4 | Lab Control Sample | Total/NA  | Water  | 8260C  |            |

## GC/MS Semi VOA

### Prep Batch: 510038

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 3510C  |            |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 3510C  |            |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 3510C  |            |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 3510C  |            |
| MB 480-510038/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |
| LCS 480-510038/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |

### Prep Batch: 510224

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 3510C  |            |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 3510C  |            |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 3510C  |            |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 3510C  |            |
| MB 480-510224/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |
| LCS 480-510224/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 510599

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|--------------------|-----------|--------|--------------|------------|
| MB 480-510224/1-A  | Method Blank       | Total/NA  | Water  | 8270D SIM ID | 510224     |
| LCS 480-510224/2-A | Lab Control Sample | Total/NA  | Water  | 8270D SIM ID | 510224     |

### Analysis Batch: 510600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method       | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 480-164158-4  | 3-WES-006-001-04 | Total/NA  | Water  | 8270D SIM ID | 510224     |
| 480-164158-5  | 3-WES-006-001-05 | Total/NA  | Water  | 8270D SIM ID | 510224     |
| 480-164158-6  | 3-WES-006-001-06 | Total/NA  | Water  | 8270D SIM ID | 510224     |

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# QC Association Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## GC/MS Semi VOA

### Analysis Batch: 511083

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method       | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 480-164158-1  | 3-WES-006-001-01 | Total/NA  | Water  | 8270D SIM ID | 510224     |

### Analysis Batch: 511172

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|--------------------|-----------|--------|--------------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 8270D_LL_PAH | 510038     |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 8270D_LL_PAH | 510038     |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 8270D_LL_PAH | 510038     |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 8270D_LL_PAH | 510038     |
| MB 480-510038/1-A  | Method Blank       | Total/NA  | Water  | 8270D_LL_PAH | 510038     |
| LCS 480-510038/2-A | Lab Control Sample | Total/NA  | Water  | 8270D_LL_PAH | 510038     |

## LCMS

### Prep Batch: 150808

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 480-164158-1        | 3-WES-006-001-01       | Total/NA  | Water  | 3535   |            |
| 480-164158-2        | 3-WES-006-001-02       | Total/NA  | Water  | 3535   |            |
| 480-164158-3        | 3-WES-006-001-03       | Total/NA  | Water  | 3535   |            |
| 480-164158-4        | 3-WES-006-001-04       | Total/NA  | Water  | 3535   |            |
| 480-164158-5        | 3-WES-006-001-05       | Total/NA  | Water  | 3535   |            |
| 480-164158-6        | 3-WES-006-001-06       | Total/NA  | Water  | 3535   |            |
| MB 200-150808/1-A   | Method Blank           | Total/NA  | Water  | 3535   |            |
| LCS 200-150808/2-A  | Lab Control Sample     | Total/NA  | Water  | 3535   |            |
| LCSD 200-150808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 3535   |            |

### Analysis Batch: 150850

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| 480-164158-1        | 3-WES-006-001-01       | Total/NA  | Water  | 537 (modified) | 150808     |
| 480-164158-2        | 3-WES-006-001-02       | Total/NA  | Water  | 537 (modified) | 150808     |
| 480-164158-3        | 3-WES-006-001-03       | Total/NA  | Water  | 537 (modified) | 150808     |
| 480-164158-4        | 3-WES-006-001-04       | Total/NA  | Water  | 537 (modified) | 150808     |
| 480-164158-5        | 3-WES-006-001-05       | Total/NA  | Water  | 537 (modified) | 150808     |
| 480-164158-6        | 3-WES-006-001-06       | Total/NA  | Water  | 537 (modified) | 150808     |
| MB 200-150808/1-A   | Method Blank           | Total/NA  | Water  | 537 (modified) | 150808     |
| LCS 200-150808/2-A  | Lab Control Sample     | Total/NA  | Water  | 537 (modified) | 150808     |
| LCSD 200-150808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 537 (modified) | 150808     |

## Metals

### Prep Batch: 509937

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 3005A  |            |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 3005A  |            |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 3005A  |            |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 3005A  |            |
| MB 480-509937/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |
| LCS 480-509937/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |

### Analysis Batch: 510715

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-164158-1  | 3-WES-006-001-01 | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-4  | 3-WES-006-001-04 | Total/NA  | Water  | 6010C  | 509937     |

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Metals (Continued)

### Analysis Batch: 510715 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 6010C  | 509937     |
| MB 480-509937/1-A  | Method Blank       | Total/NA  | Water  | 6010C  | 509937     |
| LCS 480-509937/2-A | Lab Control Sample | Total/NA  | Water  | 6010C  | 509937     |

### Analysis Batch: 511243

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 6010C  | 509937     |
| MB 480-509937/1-A  | Method Blank       | Total/NA  | Water  | 6010C  | 509937     |
| LCS 480-509937/2-A | Lab Control Sample | Total/NA  | Water  | 6010C  | 509937     |

### Prep Batch: 511436

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 7470A  |            |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 7470A  |            |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 7470A  |            |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 7470A  |            |
| MB 480-511436/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |
| LCS 480-511436/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |

### Analysis Batch: 511525

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 7470A  | 511436     |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 7470A  | 511436     |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 7470A  | 511436     |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 7470A  | 511436     |
| MB 480-511436/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 511436     |
| LCS 480-511436/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 511436     |

### Analysis Batch: 511560

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 6010C  | 509937     |
| MB 480-509937/1-A  | Method Blank       | Total/NA  | Water  | 6010C  | 509937     |
| LCS 480-509937/2-A | Lab Control Sample | Total/NA  | Water  | 6010C  | 509937     |

### Analysis Batch: 512535

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-164158-5  | 3-WES-006-001-05 | Total/NA  | Water  | 6010C  | 509937     |
| 480-164158-6  | 3-WES-006-001-06 | Total/NA  | Water  | 6010C  | 509937     |

## General Chemistry

### Analysis Batch: 510058

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 480-164158-1     | 3-WES-006-001-01 | Total/NA  | Water  | 300.0  |            |
| MB 480-510058/28 | Method Blank     | Total/NA  | Water  | 300.0  |            |

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# QC Association Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## General Chemistry (Continued)

### Analysis Batch: 510058 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| LCS 480-510058/27 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 480-164158-1 MS   | 3-WES-006-001-01   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 510099

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1       | 3-WES-006-001-01   | Total/NA  | Water  | 350.1  |            |
| 480-164158-4       | 3-WES-006-001-04   | Total/NA  | Water  | 350.1  |            |
| 480-164158-5       | 3-WES-006-001-05   | Total/NA  | Water  | 350.1  |            |
| 480-164158-6       | 3-WES-006-001-06   | Total/NA  | Water  | 350.1  |            |
| MB 480-510099/27   | Method Blank       | Total/NA  | Water  | 350.1  |            |
| MB 480-510099/75   | Method Blank       | Total/NA  | Water  | 350.1  |            |
| MB 480-510099/99   | Method Blank       | Total/NA  | Water  | 350.1  |            |
| LCS 480-510099/100 | Lab Control Sample | Total/NA  | Water  | 350.1  |            |
| LCS 480-510099/28  | Lab Control Sample | Total/NA  | Water  | 350.1  |            |
| LCS 480-510099/76  | Lab Control Sample | Total/NA  | Water  | 350.1  |            |
| 480-164158-1 MS    | 3-WES-006-001-01   | Total/NA  | Water  | 350.1  |            |
| 480-164158-1 DU    | 3-WES-006-001-01   | Total/NA  | Water  | 350.1  |            |

### Analysis Batch: 510282

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1      | 3-WES-006-001-01   | Total/NA  | Water  | 410.4  |            |
| MB 480-510282/28  | Method Blank       | Total/NA  | Water  | 410.4  |            |
| LCS 480-510282/29 | Lab Control Sample | Total/NA  | Water  | 410.4  |            |

### Analysis Batch: 510350

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-164158-1     | 3-WES-006-001-01   | Total/NA  | Water  | SM 2540C |            |
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | SM 2540C |            |
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | SM 2540C |            |
| 480-164158-6     | 3-WES-006-001-06   | Total/NA  | Water  | SM 2540C |            |
| MB 480-510350/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 480-510350/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 510364

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | 300.0  |            |
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | 300.0  |            |
| 480-164158-6     | 3-WES-006-001-06   | Total/NA  | Water  | 300.0  |            |
| MB 480-510364/4  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 480-510364/3 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 480-164158-6 MS  | 3-WES-006-001-06   | Total/NA  | Water  | 300.0  |            |
| 480-164158-6 MSD | 3-WES-006-001-06   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 510674

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-164158-1     | 3-WES-006-001-01   | Total/NA  | Water  | SM 2340C |            |
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | SM 2340C |            |
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | SM 2340C |            |
| 480-164158-6     | 3-WES-006-001-06   | Total/NA  | Water  | SM 2340C |            |
| MB 480-510674/3  | Method Blank       | Total/NA  | Water  | SM 2340C |            |
| LCS 480-510674/4 | Lab Control Sample | Total/NA  | Water  | SM 2340C |            |

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# QC Association Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## General Chemistry

### Analysis Batch: 510785

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | 300.0  |            |
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | 300.0  |            |
| MB 480-510785/4  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 480-510785/3 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 480-164158-5 MS  | 3-WES-006-001-05   | Total/NA  | Water  | 300.0  |            |
| 480-164158-5 MSD | 3-WES-006-001-05   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 510952

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 480-164158-1      | 3-WES-006-001-01   | Total/NA  | Water  | SM 2320B |            |
| MB 480-510952/30  | Method Blank       | Total/NA  | Water  | SM 2320B |            |
| LCS 480-510952/31 | Lab Control Sample | Total/NA  | Water  | SM 2320B |            |

### Analysis Batch: 511102

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-4     | 3-WES-006-001-04   | Total/NA  | Water  | 410.4  |            |
| 480-164158-5     | 3-WES-006-001-05   | Total/NA  | Water  | 410.4  |            |
| 480-164158-6     | 3-WES-006-001-06   | Total/NA  | Water  | 410.4  |            |
| MB 480-511102/4  | Method Blank       | Total/NA  | Water  | 410.4  |            |
| LCS 480-511102/5 | Lab Control Sample | Total/NA  | Water  | 410.4  |            |

### Analysis Batch: 511935

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 480-164158-4      | 3-WES-006-001-04   | Total/NA  | Water  | SM 2320B |            |
| 480-164158-5      | 3-WES-006-001-05   | Total/NA  | Water  | SM 2320B |            |
| 480-164158-6      | 3-WES-006-001-06   | Total/NA  | Water  | SM 2320B |            |
| MB 480-511935/30  | Method Blank       | Total/NA  | Water  | SM 2320B |            |
| MB 480-511935/7   | Method Blank       | Total/NA  | Water  | SM 2320B |            |
| LCS 480-511935/31 | Lab Control Sample | Total/NA  | Water  | SM 2320B |            |
| LCS 480-511935/8  | Lab Control Sample | Total/NA  | Water  | SM 2320B |            |

### Analysis Batch: 511961

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-164158-1      | 3-WES-006-001-01   | Total/NA  | Water  | 9060A  |            |
| 480-164158-4      | 3-WES-006-001-04   | Total/NA  | Water  | 9060A  |            |
| 480-164158-5      | 3-WES-006-001-05   | Total/NA  | Water  | 9060A  |            |
| 480-164158-6      | 3-WES-006-001-06   | Total/NA  | Water  | 9060A  |            |
| MB 480-511961/51  | Method Blank       | Total/NA  | Water  | 9060A  |            |
| LCS 480-511961/52 | Lab Control Sample | Total/NA  | Water  | 9060A  |            |

# Lab Chronicle

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Client Sample ID: 3-WES-006-001-01**

**Lab Sample ID: 480-164158-1**

**Date Collected: 12/12/19 12:00**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 10              | 510494       | 12/18/19 14:34       | CDC     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510224       | 12/17/19 08:31       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 5               | 511083       | 12/19/19 13:55       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510038       | 12/16/19 08:59       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D_LL_PAH   |     | 1               | 511172       | 12/21/19 12:47       | PJQ     | TAL BUF |
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 19:37       | JM1     | TAL BUR |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 510715       | 12/18/19 23:11       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 511243       | 12/20/19 22:33       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 511560       | 12/23/19 17:11       | AMH     | TAL BUF |
| Total/NA  | Prep       | 7470A          |     |                 | 511436       | 12/23/19 12:08       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 7470A          |     | 1               | 511525       | 12/23/19 16:30       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 300.0          |     | 5               | 510058       | 12/17/19 00:05       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 350.1          |     | 10              | 510099       | 12/16/19 13:08       | CLT     | TAL BUF |
| Total/NA  | Analysis   | 410.4          |     | 1               | 510282       | 12/14/19 18:47       | CSS     | TAL BUF |
| Total/NA  | Analysis   | 9060A          |     | 1               | 511961       | 12/25/19 22:17       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | SM 2320B       |     | 1               | 510952       | 12/19/19 16:14       | NLA     | TAL BUF |
| Total/NA  | Analysis   | SM 2340C       |     | 1               | 510674       | 12/18/19 09:42       | MJB     | TAL BUF |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 510350       | 12/17/19 13:44       | CSS     | TAL BUF |

**Client Sample ID: 3-WES-006-001-02**

**Lab Sample ID: 480-164158-2**

**Date Collected: 12/12/19 13:00**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 19:45       | JM1     | TAL BUR |

**Client Sample ID: 3-WES-006-001-03**

**Lab Sample ID: 480-164158-3**

**Date Collected: 12/12/19 13:05**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 19:53       | JM1     | TAL BUR |

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# Lab Chronicle

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Client Sample ID: 3-WES-006-001-04**

**Lab Sample ID: 480-164158-4**

**Date Collected: 12/12/19 13:15**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 5               | 510494       | 12/18/19 14:58       | CDC     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510224       | 12/17/19 08:31       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 510600       | 12/19/19 03:12       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510038       | 12/16/19 08:59       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D_LL_PAH   |     | 1               | 511172       | 12/21/19 13:17       | PJQ     | TAL BUF |
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 20:01       | JM1     | TAL BUR |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 510715       | 12/18/19 23:14       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 511243       | 12/20/19 22:36       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 2               | 511243       | 12/20/19 22:40       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 511560       | 12/23/19 17:15       | AMH     | TAL BUF |
| Total/NA  | Prep       | 7470A          |     |                 | 511436       | 12/23/19 12:08       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 7470A          |     | 1               | 511525       | 12/23/19 16:32       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 300.0          |     | 5               | 510364       | 12/17/19 23:49       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 300.0          |     | 5               | 510785       | 12/19/19 13:52       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 350.1          |     | 2               | 510099       | 12/16/19 12:56       | CLT     | TAL BUF |
| Total/NA  | Analysis   | 410.4          |     | 1               | 511102       | 12/19/19 19:01       | CSS     | TAL BUF |
| Total/NA  | Analysis   | 9060A          |     | 1               | 511961       | 12/26/19 01:01       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | SM 2320B       |     | 1               | 511935       | 12/26/19 20:46       | NLA     | TAL BUF |
| Total/NA  | Analysis   | SM 2340C       |     | 1               | 510674       | 12/18/19 09:42       | MJB     | TAL BUF |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 510350       | 12/17/19 13:44       | CSS     | TAL BUF |

**Client Sample ID: 3-WES-006-001-05**

**Lab Sample ID: 480-164158-5**

**Date Collected: 12/12/19 14:15**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 4               | 510709       | 12/19/19 01:07       | S1V     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510224       | 12/17/19 08:31       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 510600       | 12/19/19 03:35       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510038       | 12/16/19 08:59       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D_LL_PAH   |     | 10              | 511172       | 12/21/19 13:45       | PJQ     | TAL BUF |
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 20:09       | JM1     | TAL BUR |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 5               | 510715       | 12/18/19 23:22       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 512535       | 01/06/20 10:42       | AMH     | TAL BUF |

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Client Sample ID: 3-WES-006-001-05**

**Lab Sample ID: 480-164158-5**

**Date Collected: 12/12/19 14:15**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3005A        |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 5               | 511243       | 12/20/19 22:59       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7470A        |     |                 | 511436       | 12/23/19 12:08       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 7470A        |     | 1               | 511525       | 12/23/19 16:36       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 300.0        |     | 2               | 510364       | 12/18/19 00:04       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 300.0        |     | 2               | 510785       | 12/19/19 14:06       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 350.1        |     | 1               | 510099       | 12/16/19 12:07       | CLT     | TAL BUF |
| Total/NA  | Analysis   | 410.4        |     | 1               | 511102       | 12/19/19 19:01       | CSS     | TAL BUF |
| Total/NA  | Analysis   | 9060A        |     | 1               | 511961       | 12/26/19 01:29       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | SM 2320B     |     | 1               | 511935       | 12/26/19 20:52       | NLA     | TAL BUF |
| Total/NA  | Analysis   | SM 2340C     |     | 1               | 510674       | 12/18/19 09:42       | MJB     | TAL BUF |
| Total/NA  | Analysis   | SM 2540C     |     | 1               | 510350       | 12/17/19 13:44       | CSS     | TAL BUF |

**Client Sample ID: 3-WES-006-001-06**

**Lab Sample ID: 480-164158-6**

**Date Collected: 12/12/19 15:45**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 510709       | 12/19/19 01:31       | S1V     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510224       | 12/17/19 08:31       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 510600       | 12/19/19 03:58       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3510C          |     |                 | 510038       | 12/16/19 08:59       | JMP     | TAL BUF |
| Total/NA  | Analysis   | 8270D_LL_PAH   |     | 5               | 511172       | 12/21/19 14:13       | PJQ     | TAL BUF |
| Total/NA  | Prep       | 3535           |     |                 | 150808       | 12/17/19 15:27       | MBM     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 150850       | 12/18/19 20:18       | JM1     | TAL BUR |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 510715       | 12/18/19 23:30       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 512535       | 01/06/20 10:46       | AMH     | TAL BUF |
| Total/NA  | Prep       | 3005A          |     |                 | 509937       | 12/16/19 10:23       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C          |     | 1               | 511243       | 12/20/19 23:03       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7470A          |     |                 | 511436       | 12/23/19 12:08       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 7470A          |     | 1               | 511525       | 12/23/19 16:37       | BMB     | TAL BUF |
| Total/NA  | Analysis   | 300.0          |     | 10              | 510364       | 12/18/19 00:18       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | 350.1          |     | 1               | 510099       | 12/16/19 12:08       | CLT     | TAL BUF |
| Total/NA  | Analysis   | 410.4          |     | 1               | 511102       | 12/19/19 19:01       | CSS     | TAL BUF |
| Total/NA  | Analysis   | 9060A          |     | 1               | 511961       | 12/26/19 01:56       | IMZ     | TAL BUF |
| Total/NA  | Analysis   | SM 2320B       |     | 1               | 511935       | 12/26/19 20:57       | NLA     | TAL BUF |
| Total/NA  | Analysis   | SM 2340C       |     | 1               | 510674       | 12/18/19 09:42       | MJB     | TAL BUF |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 510350       | 12/17/19 13:44       | CSS     | TAL BUF |

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

**Client Sample ID: 3-WES-006-001-07**

**Lab Sample ID: 480-164158-7**

**Date Collected: 12/12/19 00:00**

**Matrix: Water**

**Date Received: 12/13/19 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 509985       | 12/16/19 14:21       | CRL     | TAL BUF |

## Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

## Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-20        |

## Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10391                 | 04-01-20        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte                                                  |
|-----------------|-------------|--------|----------------------------------------------------------|
| 537 (modified)  | 3535        | Water  | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           |
| 537 (modified)  | 3535        | Water  | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           |
| 537 (modified)  | 3535        | Water  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  |
| 537 (modified)  | 3535        | Water  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) |
| 537 (modified)  | 3535        | Water  | Perfluorobutanesulfonic acid (PFBS)                      |
| 537 (modified)  | 3535        | Water  | Perfluorobutanoic acid (PFBA)                            |
| 537 (modified)  | 3535        | Water  | Perfluorodecanesulfonic acid (PFDS)                      |
| 537 (modified)  | 3535        | Water  | Perfluorodecanoic acid (PFDA)                            |
| 537 (modified)  | 3535        | Water  | Perfluorododecanoic acid (PFDoA)                         |
| 537 (modified)  | 3535        | Water  | Perfluoroheptanesulfonic Acid (PFHpS)                    |
| 537 (modified)  | 3535        | Water  | Perfluoroheptanoic acid (PFHpA)                          |
| 537 (modified)  | 3535        | Water  | Perfluorohexanesulfonic acid (PFHxS)                     |
| 537 (modified)  | 3535        | Water  | Perfluorohexanoic acid (PFHxA)                           |
| 537 (modified)  | 3535        | Water  | Perfluorononanoic acid (PFNA)                            |
| 537 (modified)  | 3535        | Water  | Perfluorooctanesulfonamide (PFOSA)                       |
| 537 (modified)  | 3535        | Water  | Perfluorooctanesulfonic acid (PFOS)                      |
| 537 (modified)  | 3535        | Water  | Perfluorooctanoic acid (PFOA)                            |
| 537 (modified)  | 3535        | Water  | Perfluoropentanoic acid (PFPeA)                          |
| 537 (modified)  | 3535        | Water  | Perfluorotetradecanoic acid (PFTeA)                      |
| 537 (modified)  | 3535        | Water  | Perfluorotridecanoic acid (PFTriA)                       |
| 537 (modified)  | 3535        | Water  | Perfluoroundecanoic acid (PFUnA)                         |

# Method Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

| Method         | Method Description                                            | Protocol | Laboratory |
|----------------|---------------------------------------------------------------|----------|------------|
| 8260C          | Volatile Organic Compounds by GC/MS                           | SW846    | TAL BUF    |
| 8270D SIM ID   | Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) | SW846    | TAL BUF    |
| 8270D_LL_PAH   | Semivolatile Organic Compounds (GC/MS) Low level PAH          | SW846    | TAL BUF    |
| 537 (modified) | Fluorinated Alkyl Substances                                  | EPA      | TAL BUR    |
| 6010C          | Metals (ICP)                                                  | SW846    | TAL BUF    |
| 7470A          | Mercury (CVAA)                                                | SW846    | TAL BUF    |
| 300.0          | Anions, Ion Chromatography                                    | MCAWW    | TAL BUF    |
| 350.1          | Nitrogen, Ammonia                                             | MCAWW    | TAL BUF    |
| 410.4          | COD                                                           | MCAWW    | TAL BUF    |
| 9060A          | Organic Carbon, Total (TOC)                                   | SW846    | TAL BUF    |
| SM 2320B       | Alkalinity                                                    | SM       | TAL BUF    |
| SM 2340C       | Hardness, Total (mg/l as CaCO <sub>3</sub> )                  | SM       | TAL BUF    |
| SM 2540C       | Solids, Total Dissolved (TDS)                                 | SM       | TAL BUF    |
| 3005A          | Preparation, Total Metals                                     | SW846    | TAL BUF    |
| 3510C          | Liquid-Liquid Extraction (Separatory Funnel)                  | SW846    | TAL BUF    |
| 3535           | Solid-Phase Extraction (SPE)                                  | SW846    | TAL BUR    |
| 5030C          | Purge and Trap                                                | SW846    | TAL BUF    |
| 7470A          | Preparation, Mercury                                          | SW846    | TAL BUF    |

## Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: Parsons Corporation  
Project/Site: 3-WES-006 Rocky Ledge

Job ID: 480-164158-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 480-164158-1  | 3-WES-006-001-01 | Water  | 12/12/19 12:00 | 12/13/19 09:00 |          |
| 480-164158-2  | 3-WES-006-001-02 | Water  | 12/12/19 13:00 | 12/13/19 09:00 |          |
| 480-164158-3  | 3-WES-006-001-03 | Water  | 12/12/19 13:05 | 12/13/19 09:00 |          |
| 480-164158-4  | 3-WES-006-001-04 | Water  | 12/12/19 13:15 | 12/13/19 09:00 |          |
| 480-164158-5  | 3-WES-006-001-05 | Water  | 12/12/19 14:15 | 12/13/19 09:00 |          |
| 480-164158-6  | 3-WES-006-001-06 | Water  | 12/12/19 15:45 | 12/13/19 09:00 |          |
| 480-164158-7  | 3-WES-006-001-07 | Water  | 12/12/19 00:00 | 12/13/19 09:00 |          |

21390

## CHAIN-OF-CUSTODY / Analytical Request Document

## Section A Laboratory Information

Lab Name: TestAmerica

Attention: John Schove

Address: 10 Hazelwood Drive  
Amherst, NY 14228-2298

Phone: (716) 504-9838

Email: John.Schove@testamerica.com

## Section C Deliverable Requirements

Report To: Sara.Weishaupt@parsons.com

Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com  
Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

## Section B Client Information

Company: Parsons

Attention: Sara Weishaupt

Address: 301 Plainfield Road, Suite 350  
Syracuse, NY 13212

Phone: 315-552-9681

Email: Sara.Weishaupt@parsons.com

Purchase Order No:

TAT - 10 Day

## Section D Additional Information

COC #:

3-WES-006-001

Project Name:

ILI - Region 3

Project Site:

Rocky Ledge

Project Number:

450619

Preservative codes (for water only):

0 1 0 0 2 2 3 1 0 0 0

Alkalinity SM20 2320B

TDS SM25400

SO4/CHL/BRO 300.0

TOC 9060A

Ammonia/COD 350.1/410.4

Hard-SM20 2340C

Mod Bsn Met/Hg 6010/7470

1, 4 - Dioxane 8270SIM

PAHs 8270SIM

Modified Baseline VOCs 8260

PFAS Modified 537

Composite (Y/N)

MS/MSD

#Bottles

1 1 1 1 1 1 1 1 1 1

2 2 2 2 2 2 2 2 2 2

3 3 3 3 3 3 3 3 3 3

4 4 4 4 4 4 4 4 4 4

5 5 5 5 5 5 5 5 5 5

6 6 6 6 6 6 6 6 6 6

7 7 7 7 7 7 7 7 7 7

8 8 8 8 8 8 8 8 8 8

9 9 9 9 9 9 9 9 9 9

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11 11 11 11 11 11 11 11 11 11

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13 13 13 13 13 13 13 13 13 13

14 14 14 14 14 14 14 14 14 14

15 15 15 15 15 15 15 15 15 15

16 16 16 16 16 16 16 16 16 16

## Special Instructions:

480-164158 Chain of Custody

Samplers Name:

Faith McDonald

Company:

Parsons

Date/Time:

12/15/19 1715

Shipment Tracking No:

1715

Date/Time:

12/15/19 1715

Relinquished By:

Faith McDonald

Accepted By:

Faith McDonald

Date/Time:

12/15/19 1715

Company:

Parsons

Date/Time:

12/15/19 1715

Relinquished By:

Faith McDonald

Accepted By:

Faith McDonald

Date/Time:

12/15/19 1715

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; [8 = Other (H3PO4)];

Company: Parsons

Date/Time: 12/15/19 1715

Relinquished By:

Faith McDonald

Accepted By:

Faith McDonald

Date/Time:

12/15/19 1715

Company:

Parsons

Date/Time:

12/15/19 1715

Relinquished By:

Faith McDonald

Accepted By:

Faith McDonald

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Date/Time:

12/15/19 1715

Company:

Parsons

Date/Time:

12/15/19 1715

Relinquished By:

Faith McDonald

Accepted By:

Faith McDonald

Date/Time:

12/15/19 1715



ORIGIN ID:DKKA (716) 691-2600  
CHRIS KOLB  
TESTAMERICA  
10 HAZELWOOD DR

AMHERST, NY 14228  
UNITED STATES US

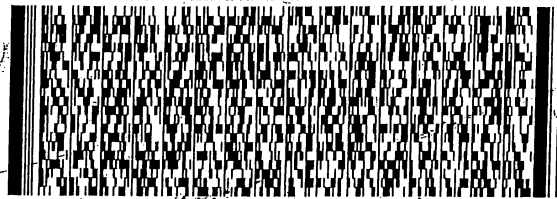
SHIP DATE: 16DEC19  
ACTWGT: 22.30 LB  
CAD: 846654/CAFE3310  
DIMS: 19x15x10 IN

BILL RECIPIENT

TO **SAMPLE MGT.**  
**TA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

(802) 680-1980

REF: TA BURLINGTON



**FedEx**  
Express



JT912190619071uy

TRK# 4276 0722 1734  
0201

**TUE - 17 DEC 10:30A**  
**PRIORITY OVERNIGHT**

**XH BTVA**

**05403**

VT-US **BTVA**



## Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-164158-1

**Login Number: 164158**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Harper, Marcus D**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified                                                     | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |         |
| Multiphasic samples are not present.                                             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Sampling Company provided.                                                       | True   |         |
| Samples received within 48 hours of sampling.                                    | True   |         |
| Samples requiring field filtration have been filtered in the field.              | N/A    |         |
| Chlorine Residual checked.                                                       | N/A    |         |

## Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-164158-1

**Login Number: 164158**

**List Number: 2**

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**List Source: Eurofins TestAmerica, Burlington**

**List Creation: 12/17/19 02:41 PM**

| Question                                                                                 | Answer | Comment                                  |
|------------------------------------------------------------------------------------------|--------|------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact.                                        | True   | 975440                                   |
| Sample custody seals, if present, are intact.                                            | True   |                                          |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                          |
| Samples were received on ice.                                                            | True   |                                          |
| Cooler Temperature is acceptable.                                                        | True   | 0.6°C                                    |
| Cooler Temperature is recorded.                                                          | True   |                                          |
| COC is present.                                                                          | True   |                                          |
| COC is filled out in ink and legible.                                                    | True   |                                          |
| COC is filled out with all pertinent information.                                        | True   | Received project as a subcontract.       |
| Is the Field Sampler's name present on COC?                                              | N/A    |                                          |
| There are no discrepancies between the containers received and the COC.                  | True   |                                          |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                          |
| Sample containers have legible labels.                                                   | True   |                                          |
| Containers are not broken or leaking.                                                    | True   |                                          |
| Sample collection date/times are provided.                                               | True   |                                          |
| Appropriate sample containers are used.                                                  | True   |                                          |
| Sample bottles are completely filled.                                                    | N/A    |                                          |
| Sample Preservation Verified.                                                            | True   |                                          |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                          |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                          |
| Multiphasic samples are not present.                                                     | True   |                                          |
| Samples do not require splitting or compositing.                                         | True   |                                          |
| Residual Chlorine Checked.                                                               | N/A    |                                          |