

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

- (a) By the owners and operators who took the UST system out of service;
- (b) By the current owners and operators of the UST system site; or
- (c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank is located.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the CAP regulation requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Zachary Lieb _____, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.



Signature of Person Performing Site Assessment

1/15/19

Date

PADEP UMR Installer

Title of Person Performing Site Assessment

Moody and Associates, Inc.

Name of Company Performing Site Assessment

724-746-5200 Ext-2017

Telephone Number of Person Performing Site Assessment

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 004 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 02 - 23316

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

YES -----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

-----> Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

NO -----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

YES -----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. if "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

- (a) By the owners and operators who took the UST system out of service;
- (b) By the current owners and operators of the UST system site; or
- (c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank is located.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

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Signature of Person Performing Site Assessment

1/15/19

Date

PADEP UMR Installer

Title of Person Performing Site Assessment

Moody and Associates, Inc.

Name of Company Performing Site Assessment

724-746-5200 Ext-2017

Telephone Number of Person Performing Site Assessment

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 005 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 02 - 23316

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

-----> Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling-----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

NO-----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. if "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

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- (b) By the current owners and operators of the UST system site; or
- (c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank is located.

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Signature of Person Performing Site Assessment

1/15/19

Date

PADEP UMR Installer
Title of Person Performing Site Assessment

Moody and Associates, Inc.
Name of Company Performing Site Assessment

724-746-5200 Ext-2017
Telephone Number of Person Performing Site Assessment

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 006 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 02 - 23316

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

-----> Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling-----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

NO-----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

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Signature of Person Performing Site Assessment

1/15/19

Date

PADEP UMR Installer
Title of Person Performing Site Assessment

Moody and Associates, Inc.
Name of Company Performing Site Assessment

724-746-5200 Ext-2017
Telephone Number of Person Performing Site Assessment

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

**Sample/Analysis Information
(Attachment for Section III.)**

Facility ID Number 02 - 23316

| Sample I.D. (See diagram) | Parameter | Analytical Method ¹ | | Media | Result (units) | Detection Limit (units) | Date Sample Taken | Date Sample Analyzed |
|------------------------------|-----------|--------------------------------|--|-------|----------------|-------------------------|-------------------|----------------------|
| See Attached | Summary | Tables | | | | | / / | / / |
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Facility ID Number 02 - 23316

| Sample I.D. (See diagram) | Parameter | Analytical Method ¹ | | Media | Result (units) | Detection Limit (units) | Date Sample Taken | Date Sample Analyzed |
|------------------------------|-----------|--------------------------------|--|-------|----------------|-------------------------|-------------------|----------------------|
| See Attached | Summary | Tables | | | | | / / | / / |
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¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:
 P - Samples placed in a soil sample vial with a preservative present.
 E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
 N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large scale map of the site where tanks were closed. Scales between 1" = 10 and 1" = 100 feet frequently work out well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tanks removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: Marathon Fuel Station 02 - 23316

County: Allegheny County

Township/Borough: North Versailles Township

Summary Tables

Table 1: Summary of Soil Screening Results
1826 Lincoln Highway North Versailles, PA 15137-251
December 4, 2018-December 6, 2018
North Versailles Township, Allegheny County, Pennsylvania
KRG North Versailles, LLC

| Screening Location | PID Reading (ppm) |
|--------------------|-------------------|
| GS-1 | 0.2 |
| GS-2 | 0.5 |
| GS-3 | 0.1 |
| GS-4 | 1.2 |
| GS-5 | 1.1 |
| GS-6 | 0.7 |
| GS-7 | 0.5 |
| GS-8 | 1.1 |
| GS-9 | 8.3 |
| DS-1 | 0.0 |
| DS-2 | 0.1 |
| DS-3 | 0.0 |
| DS-4 | 0.0 |
| DS-5 | 0.0 |
| DS-6 | 0.0 |
| DS-7 | 0.4 |
| DS-8 | 0.3 |
| DS-9 | 9.8 |

| Screening Location | PID Reading (ppm) |
|--------------------|-------------------|
| DP-1 | 0.5 |
| DP-2 | 0.6 |
| GP-1 | 2.0 |
| GP-2 | 2.4 |
| GP-3 | 0.9 |
| GP-4 | 1.0 |
| GP-5 | 1.0 |
| GD-1 | 2.0 |
| GD-2 | 1.5 |
| GD-3 | 0.5 |
| GD-4 | 0.6 |
| DD-1 | 1.3 |
| DD-2 | 0.3 |
| DD-3 | 1.3 |
| DD-4 | 2.3 |
| Test Pit-1 West | 11.0 |
| Pest Pit-2 East | 75.0 |

Notes:

ppm: Parts per Million in Air

* Figure 3 Illustrates Screening Locations

Table 2
Summary of Soil Laboratory Analytical Results
Unleaded Gasoline Underground Storage Tank Post-Excavation Soil Samples
KRG North Versailles, LLC
North Versailles Township, Allegheny County, Pennsylvania

| PARAMETERS | UNITS | SAMPLE ID | | | | | | | | | Selected Soil Screening Criteria | Statewide Health Standard Vapor Intrusion Screening Values * |
|----------------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------------------|--|
| | | GS-1 | GS-2 | GS-3 | GS-4 | GS-5 | GS-6 | GS-7 | GS-8 | GS-9 | | |
| | | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | 12/4/2018 | | |
| General Chemistry | | | | | | | | | | | | |
| % Solids | % | 80.8 | 81.4 | 82.0 | 81.1 | 78.2 | 89.3 | 85.7 | 82.9 | 84.6 | NA | NA |
| Volatile Organics | | | | | | | | | | | | |
| Benzene | ug/kg | <47.5 | <49.8 | 10.6 | <1.0 | <1.3 | <0.98 | <1.9 | <1.6 | <60.2 | 500 | 130 |
| Ethylbenzene | ug/kg | <47.5 | <49.8 | 31.0 | <1.0 | <1.3 | 1.6 | <1.9 | <1.6 | 270.0 | 70,000 | 46,000 |
| Isopropylbenzene (Cumene) | ug/kg | <47.5 | <49.8 | 23.8 | <1.0 | <1.3 | 2.3 | <1.9 | <1.6 | 145.0 | 2,500,000 | 2,500,000 |
| Methyl t-Butyl Ether | ug/kg | <47.5 | <49.8 | 2.7 | <1.0 | 4.3 | <0.98 | <1.9 | <1.6 | <60.2 | 2,800 | 1,400 |
| Naphthalene | ug/kg | <95.1 | <99.7 | 5.9 | 4.7 | <1.3 | 5.7 | <1.9 | <1.6 | 1480.0 | 25,000 | 25,000 |
| Toluene | ug/kg | <47.5 | <49.8 | 90.0 | <1.0 | 3.1 | 2.2 | 5.1 | 8.0 | <60.2 | 100,000 | 44,000 |
| Total Xylenes | ug/kg | <143 | <150 | 193.0 | <3.1 | <3.9 | 17.3 | <5.8 | <1.6 | 308.0 | 1,000,000 | 990,000 |
| Trimethylbenzene, 1,2,4- | ug/kg | <47.5 | <49.8 | 65.8 | <1.0 | <1.3 | 20.9 | <1.9 | <1.6 | 3760.0 | 35,000 | 35,000 |
| Trimethylbenzene, 1,3,5- | ug/kg | <47.5 | <49.8 | 22.1 | <1.0 | <1.3 | 5.9 | <1.9 | <1.6 | 1150.0 | 210,000 | 210,000 |

| Soil Screening Criteria ¹ | | |
|--------------------------------------|------------------------|-----------|
| MSC _{DC} | MSC _{Soil-GW} | |
| | 100 x | Generic |
| NA | NA | NA |
| 290,000 | 500 | 130 |
| 890,000 | 70,000 | 46,000 |
| 10,000,000 | 350,000 | 2,500,000 |
| 8,600,000 | 2,000 | 2,800 |
| 760,000 | 10,000 | 25,000 |
| 10,000,000 | 100,000 | 44,000 |
| 8,000,000 | 1,000,000 | 990,000 |
| 560,000 | 6,200 | 35,000 |
| 10,000,000 | 120,000 | 210,000 |

Notes:

Soil samples collected from under Gas Tank-1, Gas Tank-2, and Gas Tank-3

*- Vapor Intrusion Screening Values from the PADEP Act 2 Land Recycling Technical Guidance Manual Nov. 19, 2016 Table 2

(1) Values reflect Medium-Specific Concentrations obtained from Tables 3a and 3b of Appendix A under 25 Pa Code §250

MSC_{DC} = Medium-Specific Concentrations For Regulated Substances in Soil - Non-Residential Direct Contact 0-2 feet

MSC_{Soil-GW} = Medium-Specific Concentrations For Regulated Substances in Soil to Groundwater -Based on Non-Residential Used Aquifer with TDS ≤ 2500 mg/L

NA = Not Applicable

Table 3
Summary of Soil Laboratory Analytical Results
Diesel Fuel Underground Storage Tank Post-Excavation Soil Samples
KRG North Versailles, LLC
North Versailles Township, Allegheny County, Pennsylvania

| PARAMETERS | | SAMPLE ID | | | | | | | | | Selected Soil Screening Criteria | Statewide Health Standard Vapor Intrusion Screening Values * |
|---------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------------------|--|
| | | DS-1 | DS-2 | DS-3 | DS-4 | DS-5 | DS-6 | DS-7 | DS-8 | DS-9 | | |
| | | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | 12/5/2018 | | |
| General Chemistry | Units | | | | | | | | | | | |
| % Solids | % | 92.5 | 82.6 | 83.2 | 79.5 | 82.3 | 82.1 | 84.4 | 78.8 | 87.8 | NA | NA |
| Volatile Organics | Units | | | | | | | | | | | |
| Benzene | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 500 | 130 |
| Ethylbenzene | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 70,000 | 46,000 |
| Isopropylbenzene (Cumene) | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 2,500,000 | 2,500,000 |
| Methyl t-Butyl Ether | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 2,800 | 1,400 |
| Naphthalene | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 25,000 | 25,000 |
| Toluene | ug/kg | <2.70 | <1.90 | 8.70 | 3.20 | 12.50 | 2.10 | 4.80 | 3.70 | 5.70 | 100,000 | 44,000 |
| Trimethylbenzene, 1,2,4- | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 35,000 | 35,000 |
| Trimethylbenzene, 1,3,5- | ug/kg | <2.70 | <1.90 | <2.00 | <2.00 | <1.80 | <2.00 | <1.80 | <1.9 | <2.00 | 210,000 | 210,000 |

| Soil Screening Criteria ¹ | | |
|--------------------------------------|------------------------|-----------|
| MSC _{DC} | MSC _{Soil-GW} | |
| | 100 x | Generic |
| NA | NA | NA |
| 290,000 | 500 | 130 |
| 890,000 | 70,000 | 46,000 |
| 10,000,000 | 350,000 | 2,500,000 |
| 8,600,000 | 2,000 | 2,800 |
| 760,000 | 10,000 | 25,000 |
| 10,000,000 | 100,000 | 44,000 |
| 560,000 | 6,200 | 35,000 |
| 10,000,000 | 120,000 | 210,000 |

Notes:

Soil samples collected from under Diesel Tank-1, Diesel Tank-2, and Diesel Tank-3

*- Vapor Intrusion Screening Values from the PADEP Act 2 Land Recycling Technical Guidance Manual Nov. 19, 2016 Table 3

(1) Values reflect Medium-Specific Concentrations obtained from Tables 3a and 3b of Appendix A under 25 Pa Code §250

MSC_{DC} = Medium-Specific Concentrations For Regulated Substances in Soil - Non-Residential Direct Contact 0-2 feet

MSC_{Soil-GW} = Medium-Specific Concentrations For Regulated Substances in Soil to Groundwater -Based on Non-Residential Used Aquifer with TDS ≤ 2500 mg/L

NA = Not Applicable

Table 4
Summary of Soil Laboratory Analytical Results
Unleaded Gas/Diesel Fuel Piping & Dispenser Post-Excavation Soil Samples
KRG North Versailles, LLC
North Versailles Township, Allegheny County, Pennsylvania

| PARAMETERS | | SAMPLE ID | | | | | | | | | | | | Selected Soil Screening Criteria | Statewide Health Standard Vapor Intrusion Screening Values * | |
|---------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------------------|--|-----------|
| | | DP-1 | DP-2 | GP-1 | GP-2 | GP-3 | GP-4 | GP-5 | DD-1 | DD-2 | GD-1 | GD-2 | GD-3 | | | GD-4 |
| | | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | 12/6/2018 | | |
| General Chemistry | Units | | | | | | | | | | | | | | | |
| % Solids | % | 83.3 | 90.5 | 83.9 | 97.0 | 92.5 | 75.9 | 95.5 | 79.5 | 85.5 | 81.9 | 71.8 | 82.3 | 82.1 | NA | NA |
| Volatile Organics | Units | | | | | | | | | | | | | | | |
| Benzene | ug/kg | <2.1 | <1.5 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 500 | 130 |
| Ethylbenzene | ug/kg | <2.1 | <1.5 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 70,000 | 46,000 |
| Isopropylbenzene (Cumene) | ug/kg | <2.1 | <1.5 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 2,500,000 | 2,500,000 |
| Methyl t-Butyl Ether | ug/kg | <2.1 | <1.5 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 2,800 | 1,400 |
| Naphthalene | ug/kg | <2.1 | 5.1 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 25,000 | 25,000 |
| Toluene | ug/kg | <2.1 | 4.5 | 4.0 | <1.1 | <1.4 | 17.7 | 5.3 | <2.3 | <2.6 | <2.7 | 3.3 | 3.9 | <2.7 | 100,000 | 44,000 |
| Total Xylenes | ug/kg | NA | NA | <5.4 | <3.2 | <4.3 | <10.3 | <4.5 | NA | NA | <8.0 | <8.5 | <6.0 | <8.1 | 1,000,000 | 990,000 |
| Trimethylbenzene, 1,2,4- | ug/kg | <2.1 | 3.9 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 35,000 | 35,000 |
| Trimethylbenzene, 1,3,5- | ug/kg | <2.1 | <1.5 | <1.8 | <1.1 | <1.4 | <3.4 | <1.5 | <2.3 | <2.6 | <2.7 | <2.8 | <2.0 | <2.7 | 210,000 | 210,000 |

| Soil Screening Criteria ¹ | | |
|--------------------------------------|------------------------|-----------|
| MSC _{DC} | MSC _{Soil-GW} | |
| | 100 x | Generic |
| NA | NA | NA |
| 290,000 | 500 | 130 |
| 890,000 | 70,000 | 46,000 |
| 10,000,000 | 350,000 | 2,500,000 |
| 8,600,000 | 2,000 | 2,800 |
| 760,000 | 10,000 | 25,000 |
| 10,000,000 | 100,000 | 44,000 |
| 8,000,000 | 1,000,000 | 990,000 |
| 560,000 | 6,200 | 35,000 |
| 10,000,000 | 120,000 | 210,000 |

Notes:

Soil samples collected from under Diesel Fuel and Gasoline Pipes and Dispensers

*- Vapor Intrusion Screening Values from the PADEP Act 2 Land Recycling Technical Guidance Manual Nov. 19, 2016 Table 2

(1) Values reflect Medium-Specific Concentrations obtained from Tables 3a and 3b of Appendix A under 25 Pa Code §250

MSC_{DC} = Medium-Specific Concentrations For Regulated Substances in Soil - Non-Residential Direct Contact 0-2 feet

MSC_{Soil-GW} = Medium-Specific Concentrations For Regulated Substances in Soil to Groundwater -Based on Non-Residential Used Aquifer with TDS ≤ 2500 mg/L

NA = Not Applicable

Table 5
Summary of Soil Laboratory Analytical Results
Test Pit Soil Samples
KRG North Versailles, LLC
North Versailles Township, Allegheny County, Pennsylvania

| PARAMETERS | | SAMPLE ID | | Selected Soil Screening Criteria | Statewide Health Standard Vapor Intrusion Screening Values * |
|---------------------------|--------------|-------------------|-------------------|----------------------------------|--|
| | | Test Pit-1 (West) | Test Pit-2 (East) | | |
| | | 12/5/2018 | 12/5/2018 | | |
| General Chemistry | Units | | | | |
| % Solids | % | 78.7 | 81.8 | NA | NA |
| Volatile Organics | Units | | | | |
| Benzene | ug/kg | <2.0 | <29.5 | 500 | 130 |
| Ethylbenzene | ug/kg | <2.0 | <29.5 | 70,000 | 46,000 |
| Isopropylbenzene (Cumene) | ug/kg | <2.0 | <29.5 | 2,500,000 | 2,500,000 |
| Methyl t-Butyl Ether | ug/kg | 12.8 | <29.5 | 2,800 | 1,400 |
| Naphthalene | ug/kg | 6.9 | <29.5 | 25,000 | 25,000 |
| Toluene | ug/kg | <2.0 | <29.5 | 100,000 | 44,000 |
| Trimethylbenzene, 1,2,4- | ug/kg | 21.2 | <29.5 | 35,000 | 35,000 |
| Trimethylbenzene, 1,3,5- | ug/kg | 6.9 | <29.5 | 210,000 | 210,000 |

| Soil Screening Criteria ¹ | | |
|--------------------------------------|------------------------|-----------|
| MSC _{DC} | MSC _{Soil-GW} | |
| | 100 x | Generic |
| NA | NA | NA |
| 290,000 | 500 | 130 |
| 890,000 | 70,000 | 46,000 |
| 10,000,000 | 350,000 | 2,500,000 |
| 8,600,000 | 2,000 | 2,800 |
| 760,000 | 10,000 | 25,000 |
| 10,000,000 | 100,000 | 44,000 |
| 560,000 | 6,200 | 35,000 |
| 10,000,000 | 120,000 | 210,000 |

Notes:

Soil samples collected from under Diesel Tank-1, Diesel Tank-2, and Diesel Tank-3

*- Vapor Intrusion Screening Values from the PADEP Act 2 Land Recycling Technical Guidance Manual Nov. 19, 2016 Table 3

(1) Values reflect Medium-Specific Concentrations obtained from Tables 3a and 3b of Appendix A under 25 Pa Code §250

MSC_{DC} = Medium-Specific Concentrations For Regulated Substances in Soil - Non-Residential Direct Contact 0-2 feet

MSC_{Soil-GW} = Medium-Specific Concentrations For Regulated Substances in Soil to Groundwater -Based on Non-Residential Used Aquifer with TDS ≤ 2500 mg/L

NA = Not Applicable

Table 6
Summary of Pit Water Laboratory Analytical Results
Unleaded Gasoline Underground Storage Tank Post-Excavation Water Samples
KRG North Versailles, LLC
North Versailles Township, Allegheny County, Pennsylvania

| PARAMETERS | | SAMPLE ID | | | ¹ MSC _{GW} | Statewide Health Standard Vapor Intrusion Screening Values * |
|---------------------------|-------|-----------|-----------|-----------|--------------------------------|--|
| | | GW-1 | GW-2 | GW-3 | | |
| | | 12/4/2018 | 12/4/2018 | 12/4/2018 | | |
| <u>Volatile Organics</u> | Units | | | | | |
| Benzene | ug/L | 36.8 | 7.0 | 9.3 | 5 | 350 |
| Ethylbenzene | ug/L | 466.0 | 4.3 | 19.0 | 700 | 860 |
| Isopropylbenzene (Cumene) | ug/L | 514.0 | 4.5 | 17.5 | 3,500 | 24,000 |
| Methyl t-Butyl Ether | ug/L | <25.0 | 4.5 | 2.4 | 20 | 96,000 |
| Naphthalene | ug/L | 71.1 | 3.1 | 5.5 | 100 | 1,300 |
| Toluene | ug/L | 1,100.0 | 8.4 | 81.0 | 1,000 | 430,000 |
| Total Xylenes | ug/L | 2,950.0 | 43.5 | 171.0 | 10,000 | 12,000 |
| Trimethylbenzene, 1,2,4- | ug/L | 1,340.0 | 33.0 | 60.2 | 62 | 750 |
| Trimethylbenzene, 1,3,5- | ug/L | 366.0 | 9.1 | 16.9 | 1,200 | 1,200 |

Notes:

Water samples collected from under Gas Tank-1, Gas Tank-2, and Gas Tank-3 respectively

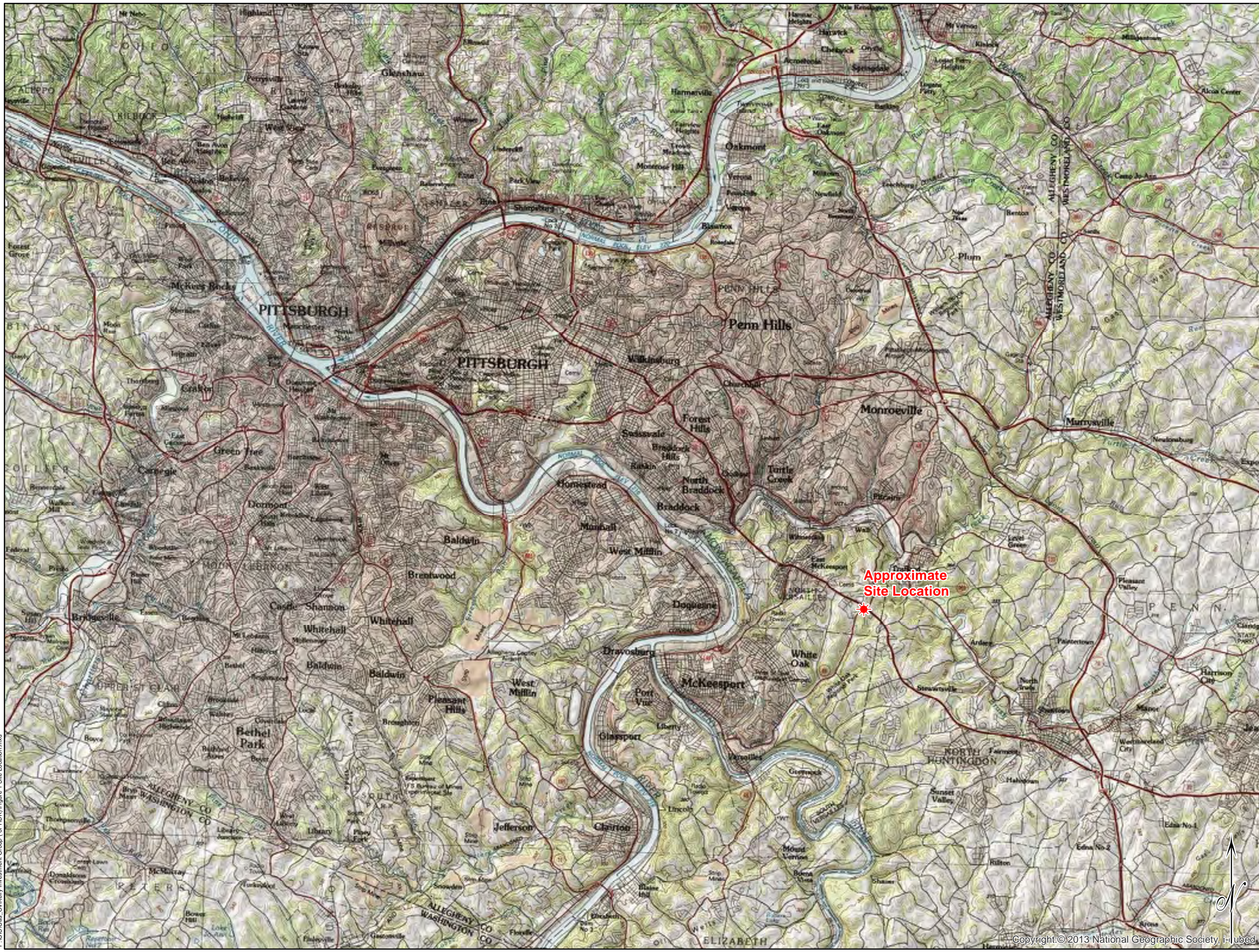
*- Vapor Intrusion Screening Values from the PADEP Act 2 Land Recycling Technical Guidance Manuel Nov. 19, 2016 Table 1

(1) Values reflect Medium-Specific Concentrations obtained from Table 1 of Appendix A under 25 Pa Code §250

MSC_{GW} = Medium-Specific Concentrations For Regulated Substances in Soil to Groundwater -Based on Non-Residential Used Aquifer with TDS ≤ 2500 mg/L

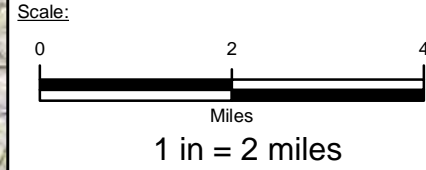
- Indicates a MSC Exceedance

Figures



LEGEND

★ Approximate Site Location



**FIGURE 1:
SITE LOCATION MAP**

North Versailles Township,
Allegheny County, PA
Project #: 18-266-MM

Prepared for:
KRG North Versailles, LLC.

199 Johnson Road
Building 2, Suite 101
Houston, PA 15342
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com

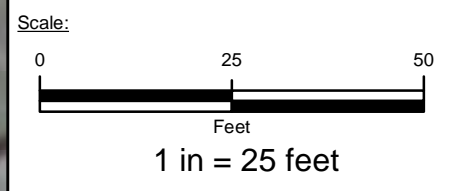


| | | | |
|-------------|-----|-----------|----------|
| Drawn by: | IDW | Date: | 11/29/18 |
| Checked by: | JB | Revision: | |



LEGEND

- Pipe
- Excavated Area
- Fuel Dispenser
- Convenience Store
- Underground Storage Tank
- Test Pit



**FIGURE 2:
AERIAL SITE MAP**

North Versailles Township,
Allegheny County, PA
Project #: 18-266-MM

Prepared for :
KRG North Versailles, LLC.

199 Johnson Road
Building 2, Suite 101
Houston, PA 15342
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com

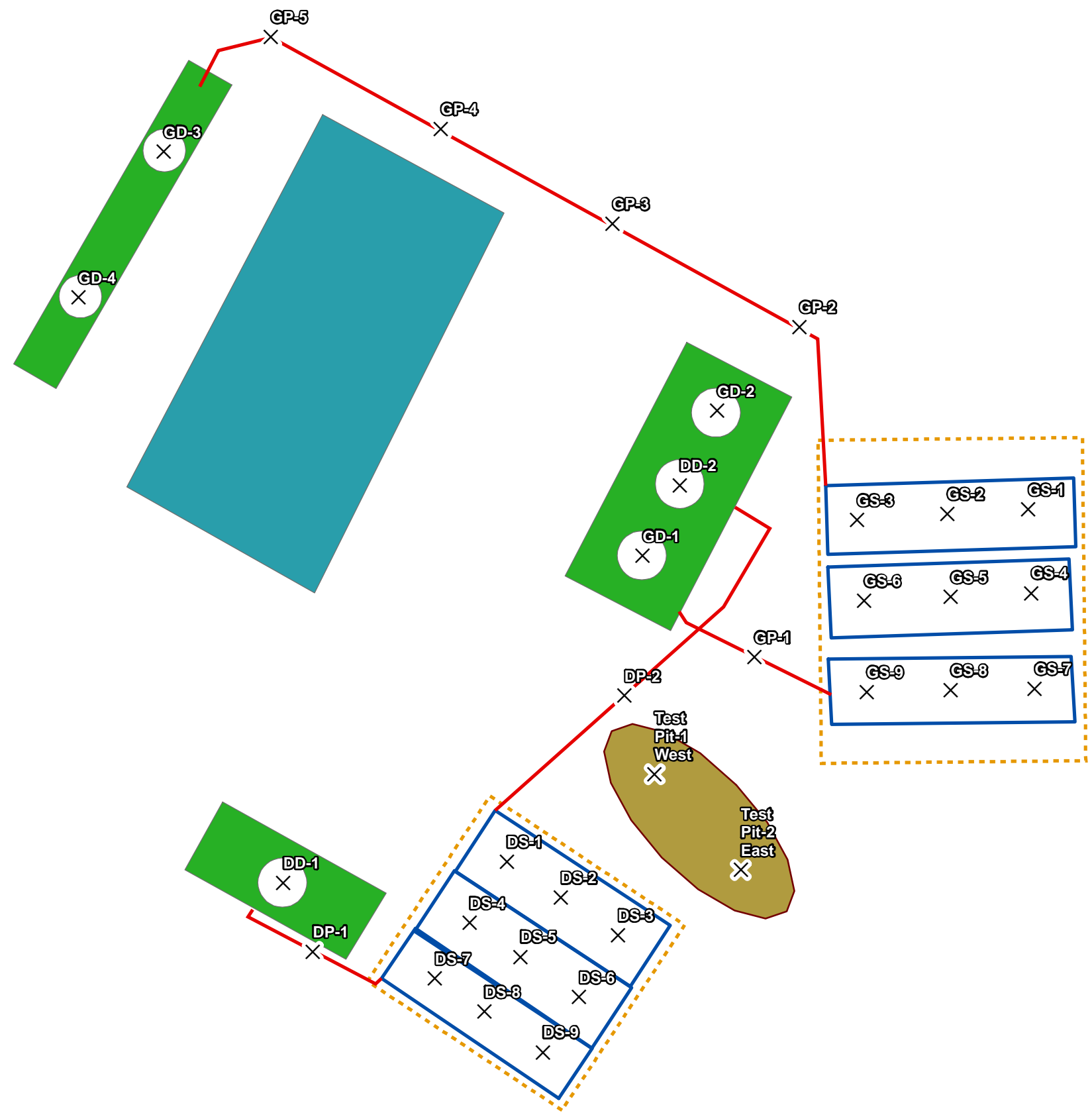


| | | | |
|-------------|-----|-----------|----------|
| Drawn by: | IDW | Date: | 12/18/18 |
| Checked by: | JB | Revision: | |

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

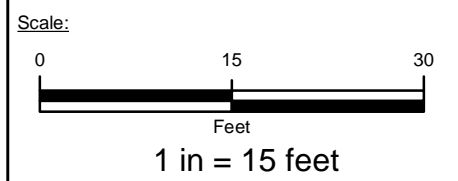
P:\GIS\Gas_Oil\Kelly Investment Group (or HDR)\Figure 2 Excavation Zones.mxd

P:\GIS\Gas_Oil\Kelly Investment Group (or HDR)\Figure 3 Sampling Locations.mxd



LEGEND

- ✕ Sampling Location
- Pipe
- ⊞ Excavated Area
- Fuel Dispenser
- Convenience Store
- Underground Storage Tank
- Test Pit



**FIGURE 3:
SAMPLING LOCATIONS MAP**

North Versailles Township,
Allegheny County, PA
Project #: 18-266-MM

Prepared for:
KRG North Versailles, LLC.

199 Johnson Road
Building 2, Suite 101
Houston, PA 15342
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com



| | | | |
|-------------|-----|-----------|----------|
| Drawn by: | IDW | Date: | 12/18/18 |
| Checked by: | JB | Revision: | |

Appendix A
Onsite Photographs

Unleaded Gasoline Tank Removal



Unleaded Gasoline Tank Removal



Gas Tank-3 Removal



Pit Water under Gas Tank-3



Unleaded Gasoline Tank Removal



Diesel Tank Removal



Diesel Tank Removal



Un-Impacted Tank Footprints



Test Pit Excavation



Grey Soils (14-16 ft bgl)



Test Pit Excavation



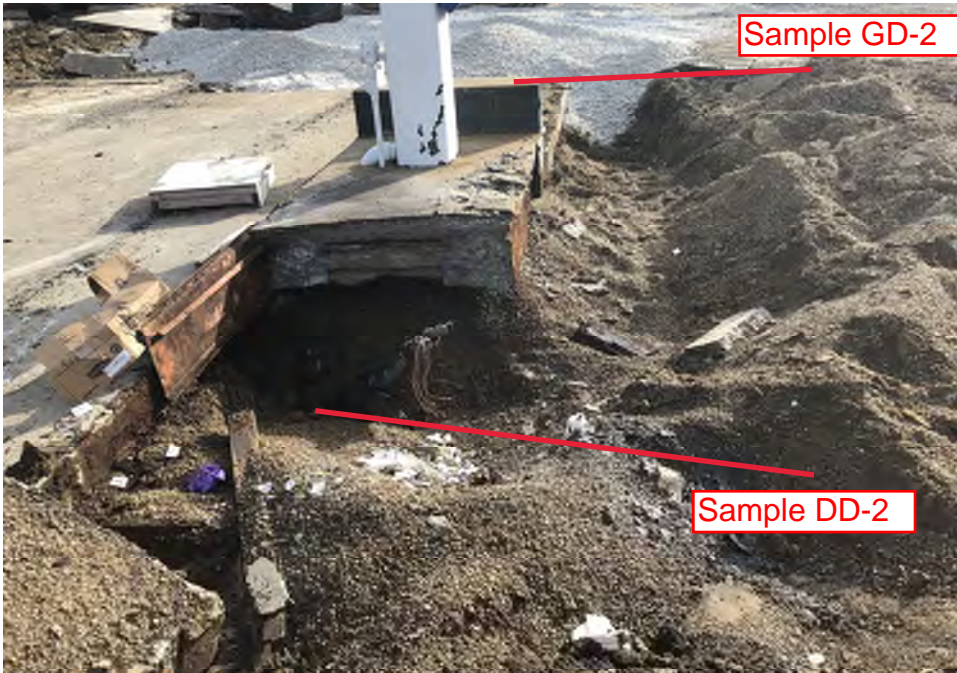
Piping & Dispenser Removal



Piping & Dispenser Removal



Gasoline Piping Going to Back of Building



Piping & Dispenser Removal



Gasoline Piping Going to Back of Building



GD-4 and GD-3

Appendix B
Laboratory Analytical Results



December 17, 2018

Zach Lieb
Moody & Associates, Inc - Houston PA
199 S. Johnson Road
Suite 101
Houston, PA 15342

Certificate of Analysis

| | | | |
|-----------------|-------------------------|---------------|-----------------------------------|
| Project Name: | Moody # 18-266MM | Workorder: | 3004227 |
| Purchase Order: | | Workorder ID: | 1836 Lincoln Hwy Gas Tanks |

Dear Zach Lieb:

Enclosed are the analytical results for samples received by the laboratory on Thursday, December 6, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matt Mitchell

Ms. Shannon Butler
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



SAMPLE SUMMARY

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------|--------|-----------------|-----------------|----------------|
| 3004227001 | GS-1 | Solid | 12/4/2018 11:50 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227002 | GS-2 | Solid | 12/4/2018 11:53 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227003 | GS-3 | Solid | 12/4/2018 11:56 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227004 | GS-4 | Solid | 12/4/2018 12:10 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227005 | GS-5 | Solid | 12/4/2018 12:13 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227006 | GS-6 | Solid | 12/4/2018 12:21 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227007 | GS-7 | Solid | 12/4/2018 12:30 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227008 | GS-8 | Solid | 12/4/2018 12:35 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227009 | GS-9 | Solid | 12/4/2018 12:40 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227010 | GW-1 | Water | 12/4/2018 11:58 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227011 | GW-2 | Water | 12/4/2018 12:15 | 12/6/2018 08:30 | Moody & Assoc. |
| 3004227012 | GW-3 | Water | 12/4/2018 12:45 | 12/6/2018 08:30 | Moody & Assoc. |

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**SAMPLE SUMMARY**

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |

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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227001**

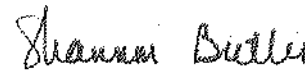
Date Collected: 12/4/2018 11:50

Matrix: Solid

 Sample ID: **GS-1**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Ethylbenzene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Naphthalene | ND | | ug/kg | 95.1 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Toluene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Total Xylenes | ND | | ug/kg | 143 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 47.5 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 129 | | % | 71 - 146 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| 4-Bromofluorobenzene (S) | 110 | | % | 46 - 138 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Dibromofluoromethane (S) | 121 | | % | 42 - 143 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| Toluene-d8 (S) | 110 | | % | 54 - 141 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:08 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 19.2 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 80.8 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



 Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227002**

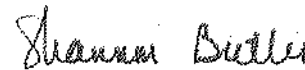
Date Collected: 12/4/2018 11:53

Matrix: Solid

 Sample ID: **GS-2**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Ethylbenzene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Naphthalene | ND | | ug/kg | 99.7 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Toluene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Total Xylenes | ND | | ug/kg | 150 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 49.8 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 121 | | % | 71 - 146 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| 4-Bromofluorobenzene (S) | 102 | | % | 46 - 138 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Dibromofluoromethane (S) | 114 | | % | 42 - 143 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| Toluene-d8 (S) | 102 | | % | 54 - 141 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:31 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 18.6 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 81.4 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227003**

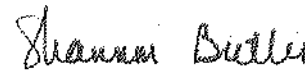
Date Collected: 12/4/2018 11:56

Matrix: Solid

 Sample ID: **GS-3**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | 10.6 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Ethylbenzene | 31.0 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Isopropylbenzene | 23.8 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Methyl t-Butyl Ether | 2.7 | 1,2 | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Naphthalene | 5.9 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Toluene | 90.0 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Total Xylenes | 193 | | ug/kg | 4.0 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| 1,2,4-Trimethylbenzene | 65.8 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| 1,3,5-Trimethylbenzene | 22.1 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 74.5 | | % | 56 - 124 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| 4-Bromofluorobenzene (S) | 95.7 | | % | 51 - 128 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Dibromofluoromethane (S) | 86.8 | | % | 62 - 123 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| Toluene-d8 (S) | 88.4 | | % | 59 - 131 | SW846 8260B | 12/4/18 11:56 | PDK | 12/8/18 06:52 | PDK | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 18.0 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 82.0 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227004**

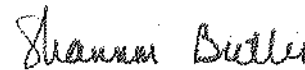
Date Collected: 12/4/2018 12:10

Matrix: Solid

 Sample ID: **GS-4**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Ethylbenzene | ND | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Isopropylbenzene | ND | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Naphthalene | 4.7 | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Toluene | ND | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Total Xylenes | ND | | ug/kg | 3.1 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| 1,2,4-Trimethylbenzene | 16.6 | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| 1,3,5-Trimethylbenzene | 7.5 | | ug/kg | 1.0 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 72 | | % | 56 - 124 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| 4-Bromofluorobenzene (S) | 109 | | % | 51 - 128 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Dibromofluoromethane (S) | 83 | | % | 62 - 123 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| Toluene-d8 (S) | 90.7 | | % | 59 - 131 | SW846 8260B | 12/4/18 12:10 | TMP | 12/11/18 08:45 | PDK | C |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 18.9 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 81.1 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227005**

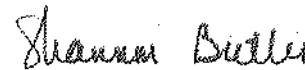
Date Collected: 12/4/2018 12:13

Matrix: Solid

 Sample ID: **GS-5**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Ethylbenzene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Isopropylbenzene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Methyl t-Butyl Ether | 4.3 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Naphthalene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Toluene | 3.1 | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Total Xylenes | ND | | ug/kg | 3.9 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.3 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 75 | | % | 56 - 124 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| 4-Bromofluorobenzene (S) | 106 | | % | 51 - 128 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Dibromofluoromethane (S) | 80.8 | | % | 62 - 123 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| Toluene-d8 (S) | 88.4 | | % | 59 - 131 | SW846 8260B | 12/4/18 12:13 | TMP | 12/11/18 09:09 | PDK | C |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 21.8 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 78.2 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227006**

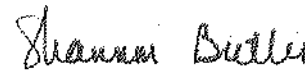
Date Collected: 12/4/2018 12:21

Matrix: Solid

 Sample ID: **GS-6**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Ethylbenzene | 1.6 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Isopropylbenzene | 2.3 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Methyl t-Butyl Ether | ND | 1,2 | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Naphthalene | 5.7 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Toluene | 2.2 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Total Xylenes | 17.3 | | ug/kg | 2.9 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| 1,2,4-Trimethylbenzene | 20.9 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| 1,3,5-Trimethylbenzene | 5.9 | | ug/kg | 0.98 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 72.2 | | % | 56 - 124 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| 4-Bromofluorobenzene (S) | 95.8 | | % | 51 - 128 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Dibromofluoromethane (S) | 88.6 | | % | 62 - 123 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| Toluene-d8 (S) | 87.9 | | % | 59 - 131 | SW846 8260B | 12/4/18 12:21 | PDK | 12/8/18 08:02 | PDK | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 10.7 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 89.3 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227007**

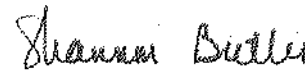
Date Collected: 12/4/2018 12:30

Matrix: Solid

 Sample ID: **GS-7**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Ethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Isopropylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Naphthalene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Toluene | 5.1 | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Total Xylenes | ND | | ug/kg | 5.8 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 68.7 | | % | 56 - 124 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| 4-Bromofluorobenzene (S) | 103 | | % | 51 - 128 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Dibromofluoromethane (S) | 78.6 | | % | 62 - 123 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| Toluene-d8 (S) | 88.4 | | % | 59 - 131 | SW846 8260B | 12/4/18 12:30 | TMP | 12/11/18 09:32 | PDK | C |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 14.3 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 85.7 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227008**

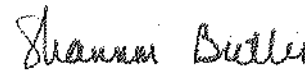
Date Collected: 12/4/2018 12:35

Matrix: Solid

 Sample ID: **GS-8**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Ethylbenzene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Isopropylbenzene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Naphthalene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Toluene | 8.0 | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Total Xylenes | ND | | ug/kg | 4.7 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.6 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 69 | | % | 56 - 124 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| 4-Bromofluorobenzene (S) | 106 | | % | 51 - 128 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Dibromofluoromethane (S) | 80.1 | | % | 62 - 123 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| Toluene-d8 (S) | 89.5 | | % | 59 - 131 | SW846 8260B | 12/4/18 12:35 | PDK | 12/11/18 09:56 | PDK | C |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.1 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 82.9 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



 Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227009**

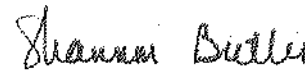
Date Collected: 12/4/2018 12:40

Matrix: Solid

 Sample ID: **GS-9**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Ethylbenzene | 270 | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Isopropylbenzene | 145 | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Naphthalene | 1480 | | ug/kg | 120 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Toluene | ND | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Total Xylenes | 308 | | ug/kg | 181 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| 1,2,4-Trimethylbenzene | 3760 | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| 1,3,5-Trimethylbenzene | 1150 | | ug/kg | 60.2 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 133 | | % | 71 - 146 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| 4-Bromofluorobenzene (S) | 108 | | % | 46 - 138 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Dibromofluoromethane (S) | 127 | | % | 42 - 143 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| Toluene-d8 (S) | 115 | | % | 54 - 141 | SW846 8260B | 12/4/18 11:50 | DD | 12/12/18 18:54 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 15.4 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |
| Total Solids | 84.6 | | % | 0.1 | S2540G-11 | | | 12/7/18 11:30 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227010**

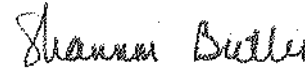
Date Collected: 12/4/2018 11:58

Matrix: Water

 Sample ID: **GW-1**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | 36.8 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Ethylbenzene | 466 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Isopropylbenzene | 514 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Methyl t-Butyl Ether | ND | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Naphthalene | 71.1 | | ug/L | 50.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Toluene | 1100 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Total Xylenes | 2950 | | ug/L | 75.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| 1,2,4-Trimethylbenzene | 1340 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| 1,3,5-Trimethylbenzene | 366 | | ug/L | 25.0 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 97.6 | | % | 62 - 133 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| 4-Bromofluorobenzene (S) | 100 | | % | 79 - 114 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Dibromofluoromethane (S) | 88 | | % | 78 - 116 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |
| Toluene-d8 (S) | 94.5 | | % | 76 - 127 | SW846 8260B | | | 12/10/18 20:11 | TMP | B |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227011**

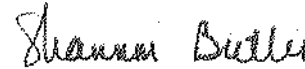
Date Collected: 12/4/2018 12:15

Matrix: Water

 Sample ID: **GW-2**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | 7.0 | 2,3 | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Ethylbenzene | 4.3 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Isopropylbenzene | 4.5 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Methyl t-Butyl Ether | 4.5 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Naphthalene | 3.1 | | ug/L | 2.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Toluene | 8.4 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Total Xylenes | 43.5 | | ug/L | 3.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| 1,2,4-Trimethylbenzene | 33.0 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| 1,3,5-Trimethylbenzene | 9.1 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 96 | | % | 62 - 133 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| 4-Bromofluorobenzene (S) | 118 | 1 | % | 79 - 114 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Dibromofluoromethane (S) | 89.8 | | % | 78 - 116 | SW846 8260B | | | 12/7/18 21:11 | DD | A |
| Toluene-d8 (S) | 99.6 | | % | 76 - 127 | SW846 8260B | | | 12/7/18 21:11 | DD | A |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

 Lab ID: **3004227012**

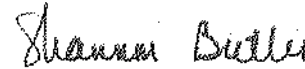
Date Collected: 12/4/2018 12:45

Matrix: Water

 Sample ID: **GW-3**

Date Received: 12/6/2018 08:30

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | 9.3 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Ethylbenzene | 19.0 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Isopropylbenzene | 17.5 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Methyl t-Butyl Ether | 2.4 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Naphthalene | 5.5 | | ug/L | 2.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Toluene | 81.0 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Total Xylenes | 171 | | ug/L | 3.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| 1,2,4-Trimethylbenzene | 60.2 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| 1,3,5-Trimethylbenzene | 16.9 | | ug/L | 1.0 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 93.4 | | % | 62 - 133 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| 4-Bromofluorobenzene (S) | 115 | 1 | % | 79 - 114 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Dibromofluoromethane (S) | 93.7 | | % | 78 - 116 | SW846 8260B | | | 12/7/18 21:33 | DD | A |
| Toluene-d8 (S) | 95.4 | | % | 76 - 127 | SW846 8260B | | | 12/7/18 21:33 | DD | A |



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ANALYTICAL RESULTS

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

PARAMETER QUALIFIERS

| Lab ID | # | Sample ID | Analytical Method | Analyte |
|---|---|-----------|-------------------|----------------------|
| 3004227003 | 1 | GS-3 | SW846 8260B | Methyl t-Butyl Ether |
| The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 120 and the control limits were 70 to 118. | | | | |
| 3004227003 | 2 | GS-3 | SW846 8260B | Methyl t-Butyl Ether |
| The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 127 and the control limits were 70 to 118. | | | | |
| 3004227006 | 1 | GS-6 | SW846 8260B | Methyl t-Butyl Ether |
| The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 120 and the control limits were 70 to 118. | | | | |
| 3004227006 | 2 | GS-6 | SW846 8260B | Methyl t-Butyl Ether |
| The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 127 and the control limits were 70 to 118. | | | | |
| 3004227011 | 1 | GW-2 | SW846 8260B | 4-Bromofluorobenzene |
| The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 118 and the control limits were 79 to 114. This result was reported at a dilution of 1. | | | | |
| 3004227011 | 2 | GW-2 | SW846 8260B | Benzene |
| Due to the excessive amount of sediment in this volatile sample, the liquid was decanted into a separate vial and analyzed. This may have introduced headspace. | | | | |
| 3004227011 | 3 | GW-2 | SW846 8260B | Benzene |
| pH - Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab. | | | | |
| 3004227012 | 1 | GW-3 | SW846 8260B | 4-Bromofluorobenzene |
| The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 115 and the control limits were 79 to 114. This result was reported at a dilution of 1. | | | | |

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3004227 1836 Lincoln Hwy Gas Tanks

| Lab ID | Sample ID | Analysis Method | Prep Method |
|------------|-----------|-----------------|-------------|
| 3004227001 | GS-1 | S2540G-11 | |
| 3004227001 | GS-1 | SW846 8260B | SW846 5035 |
| 3004227002 | GS-2 | S2540G-11 | |
| 3004227002 | GS-2 | SW846 8260B | SW846 5035 |
| 3004227003 | GS-3 | S2540G-11 | |
| 3004227003 | GS-3 | SW846 8260B | SW846 5035 |
| 3004227004 | GS-4 | S2540G-11 | |
| 3004227004 | GS-4 | SW846 8260B | SW846 5035 |
| 3004227005 | GS-5 | S2540G-11 | |
| 3004227005 | GS-5 | SW846 8260B | SW846 5035 |
| 3004227006 | GS-6 | S2540G-11 | |
| 3004227006 | GS-6 | SW846 8260B | SW846 5035 |
| 3004227007 | GS-7 | S2540G-11 | |
| 3004227007 | GS-7 | SW846 8260B | SW846 5035 |
| 3004227008 | GS-8 | S2540G-11 | |
| 3004227008 | GS-8 | SW846 8260B | SW846 5035 |
| 3004227009 | GS-9 | S2540G-11 | |
| 3004227009 | GS-9 | SW846 8260B | SW846 5035 |
| 3004227010 | GW-1 | SW846 8260B | |
| 3004227011 | GW-2 | SW846 8260B | |
| 3004227012 | GW-3 | SW846 8260B | |

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201 Felling Mill Road
 Middletown, VA 22645
 P: 703-656-8100
 F: 703-656-1432

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SIGNED AREAS MUST BE COMPLETED BY THE CLIENT
SAMPLER, INSTRUCTIONS ON THE BACK

Client Name: Middleburg Agencies
 Address: 197 Sudbourn Rd. Bldg #2
5th floor
Middleburg, VA 22642
 Contact: James H. ...
 Phone: 814-765-342
 Project Name: 197th Middleburg Hwy Gas Tanks
 Site: 20 - 22b H.A.

Normal Standard TAT is 10-12 business days.
 This Subject is an abnormal and requires
 Date Received: 3 DAY TAT Approved By: _____
 Email: _____
 Fax: _____

| Sample Description/Location | Sample Date | Time |
|-----------------------------|-------------|-------|
| GS-1 | 12-11-18 | 11:50 |
| GS-2 | 11-5-3 | 6:50 |
| GS-3 | 11-5-6 | 6:50 |
| GS-4 | 12-10 | 6:50 |
| GS-5 | 12-13 | 6:50 |
| GS-6 | 12-21 | 6:50 |
| GS-7 | 12-30 | 6:50 |
| GS-8 | 12-31 | 6:50 |
| GS-9 | 12-31 | 6:50 |
| GS-10 | 11-28 | 6:50 |

ANALYSE METHOD REQUESTED

| ANALYSE | Requested | Completed |
|------------|-----------|-----------|
| Lead | | |
| Cadmium | | |
| Copper | | |
| Chromium | | |
| Iron | | |
| Manganese | | |
| Nickel | | |
| Silver | | |
| Zinc | | |
| Vanadium | | |
| Barium | | |
| Mercury | | |
| Strontium | | |
| Barium | | |
| Phosphorus | | |
| Potassium | | |
| Sulfur | | |
| Calcium | | |
| Selenium | | |
| Chlorine | | |
| Bromine | | |
| Iodine | | |
| Fluorine | | |
| Oxygen | | |
| Hydrogen | | |
| Carbon | | |
| Nitrogen | | |

Order Number of Containers for Each of Field Number Above

| Field Number | Order Number |
|--------------|--------------|
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |

Redeemed By / Company Name: James H. ...
 Date: 12-11-18
 Time: 11:50
 Signature: _____

ANALYST SIGNATURE

Client Name: Middleburg Agencies
 Project Name: 197th Middleburg Hwy Gas Tanks
 Site: 20 - 22b H.A.

| | |
|--------------|--|
| Client Name | |
| Project Name | |
| Site | |
| Analyst | |
| Date | |

Special Preserving

USEICE NONE ASHY

APPEARANCE TO PATIENT

NO YES

ANALYSIS # _____

END OF FORM

1 of 1



301 Padung And Road
Middletown, PA 17057
P: 717-344-1541
F: 717-344-1542

Environmental

CHAIN OF CUSTODY
REQUEST FOR ANALYSIS

ALL FIELDS AREAS MUST BE COMPLETED BY THE CLIENT
SAMPLER. INSTRUCTIONS ON THE BACK.

Sampled by ALS

COC #: 3004227 92 of 10
ALS Quote #:

Project Name: Mundy + Associates
Address: 407 S. Johnson Rd, Altoona, PA 16601
Contact: Zack Link
Phone: 814-385-5262
Project Address: 88380
USE TO: Sites: 1100, 1100, 1100, 1100, 1100, 1100
Date Required: 30th of the month

| | | | |
|-------|-------------|------|------------------------------|
| Field | Sample Date | Time | Sampled by |
| GW-2 | 12/15 | 6:00 | PA DEP S... Muffled & ... |
| GW-3 | 12/15 | 6:45 | |

| Sample | Location | Depth | Time | Sampler | Remarks | Chain of Custody |
|--------|----------|-------|------|---------|---------|------------------|
| 1 | | | | | | |
| 1 | | | | | | |
| 5 | | | | | | |
| 7 | | | | | | |
| 9 | | | | | | |

Requested by: Mundy + Associates
Retrieved by: [Signature]

ALS Environmental
Middletown, PA 17057
Phone: 717-344-1541



December 14, 2018

Zach Lieb
Moody & Associates, Inc - Houston PA
199 S. Johnson Road
Suite 101
Houston, PA 15342

Certificate of Analysis

| | | | |
|-----------------|-------------------------|---------------|----------------------------------|
| Project Name: | Moody # 18-266MM | Workorder: | 3004552 |
| Purchase Order: | | Workorder ID: | 1836 Liberty Diesel Tanks |

Dear Zach Lieb:

Enclosed are the analytical results for samples received by the laboratory on Friday, December 7, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matt Mitchell

Ms. Shannon Butler
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder: 3004552 1836 Liberty Diesel Tanks

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------|--------|-----------------|-----------------|----------------|
| 3004552001 | DS-1 | Solid | 12/5/2018 08:55 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552002 | DS-2 | Solid | 12/5/2018 09:00 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552003 | DS-3 | Solid | 12/5/2018 09:05 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552004 | DS-4 | Solid | 12/5/2018 09:55 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552005 | DS-5 | Solid | 12/5/2018 10:00 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552006 | DS-6 | Solid | 12/5/2018 10:05 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552007 | DS-7 | Solid | 12/5/2018 10:18 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552008 | DS-8 | Solid | 12/5/2018 10:25 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004552009 | DS-9 | Solid | 12/5/2018 10:28 | 12/7/2018 09:18 | Moody & Assoc. |

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**SAMPLE SUMMARY**

Workorder: 3004552 1836 Liberty Diesel Tanks

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |

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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552001**

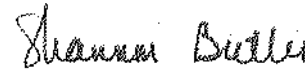
Date Collected: 12/5/2018 08:55

Matrix: Solid

 Sample ID: **DS-1**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Toluene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88.8 | | % | 56 - 124 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| 4-Bromofluorobenzene (S) | 100 | | % | 51 - 128 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Dibromofluoromethane (S) | 88.1 | | % | 62 - 123 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/5/18 08:55 | PDK | 12/13/18 03:16 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 7.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 92.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552002**

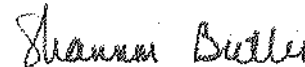
Date Collected: 12/5/2018 09:00

Matrix: Solid

 Sample ID: **DS-2**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Naphthalene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Toluene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 87.5 | | % | 56 - 124 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| 4-Bromofluorobenzene (S) | 99.6 | | % | 51 - 128 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Dibromofluoromethane (S) | 90.1 | | % | 62 - 123 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| Toluene-d8 (S) | 104 | | % | 59 - 131 | SW846 8260B | 12/5/18 09:00 | PDK | 12/13/18 03:40 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.4 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 82.6 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552003**

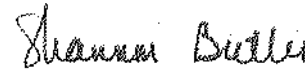
Date Collected: 12/5/2018 09:05

Matrix: Solid

 Sample ID: **DS-3**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Toluene | 8.7 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 90 | | % | 56 - 124 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| 4-Bromofluorobenzene (S) | 101 | | % | 51 - 128 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Dibromofluoromethane (S) | 91.9 | | % | 62 - 123 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| Toluene-d8 (S) | 106 | | % | 59 - 131 | SW846 8260B | 12/5/18 09:05 | PDK | 12/13/18 04:03 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 16.8 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 83.2 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552004**

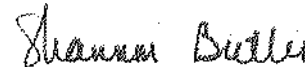
Date Collected: 12/5/2018 09:55

Matrix: Solid

 Sample ID: **DS-4**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Toluene | 3.2 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 89.6 | | % | 56 - 124 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| 4-Bromofluorobenzene (S) | 102 | | % | 51 - 128 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Dibromofluoromethane (S) | 92.8 | | % | 62 - 123 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/5/18 09:55 | PDK | 12/13/18 04:27 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 20.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 79.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552005**

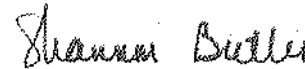
Date Collected: 12/5/2018 10:00

Matrix: Solid

 Sample ID: **DS-5**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Naphthalene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Toluene | 12.5 | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 90.2 | | % | 56 - 124 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| 4-Bromofluorobenzene (S) | 103 | | % | 51 - 128 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Dibromofluoromethane (S) | 92.5 | | % | 62 - 123 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| Toluene-d8 (S) | 108 | | % | 59 - 131 | SW846 8260B | 12/5/18 10:00 | PDK | 12/13/18 04:51 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.7 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 82.3 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

Lab ID: **3004552006**

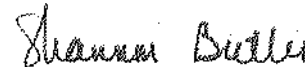
Date Collected: 12/5/2018 10:05

Matrix: Solid

Sample ID: **DS-6**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Toluene | 2.1 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88.4 | | % | 56 - 124 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| 4-Bromofluorobenzene (S) | 100 | | % | 51 - 128 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Dibromofluoromethane (S) | 91.7 | | % | 62 - 123 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| Toluene-d8 (S) | 106 | | % | 59 - 131 | SW846 8260B | 12/5/18 10:05 | PDK | 12/13/18 05:14 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.9 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 82.1 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552007**

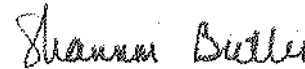
Date Collected: 12/5/2018 10:18

Matrix: Solid

 Sample ID: **DS-7**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Naphthalene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Toluene | 4.8 | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 84.6 | | % | 56 - 124 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| 4-Bromofluorobenzene (S) | 103 | | % | 51 - 128 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Dibromofluoromethane (S) | 91.2 | | % | 62 - 123 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/5/18 10:18 | PDK | 12/13/18 05:38 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 15.6 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 84.4 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552008**

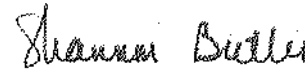
Date Collected: 12/5/2018 10:25

Matrix: Solid

 Sample ID: **DS-8**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Ethylbenzene | ND | 1 | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Isopropylbenzene | ND | 2 | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Naphthalene | ND | 5 | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Toluene | 3.7 | | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | 4 | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | 3 | ug/kg | 1.9 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88 | | % | 56 - 124 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| 4-Bromofluorobenzene (S) | 102 | | % | 51 - 128 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Dibromofluoromethane (S) | 92.4 | | % | 62 - 123 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| Toluene-d8 (S) | 106 | | % | 59 - 131 | SW846 8260B | 12/5/18 10:25 | PDK | 12/13/18 06:01 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 21.2 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 78.8 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

 Lab ID: **3004552009**

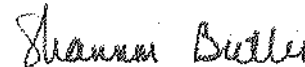
Date Collected: 12/5/2018 10:28

Matrix: Solid

 Sample ID: **DS-9**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Naphthalene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Toluene | 5.7 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 86.2 | | % | 56 - 124 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| 4-Bromofluorobenzene (S) | 99.2 | | % | 51 - 128 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Dibromofluoromethane (S) | 85.7 | | % | 62 - 123 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| Toluene-d8 (S) | 109 | | % | 59 - 131 | SW846 8260B | 12/5/18 10:28 | TMP | 12/13/18 17:49 | TMP | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 12.2 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 87.8 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3004552 1836 Liberty Diesel Tanks

PARAMETER QUALIFIERS

| Lab ID | # | Sample ID | Analytical Method | Analyte |
|--|---|-----------|-------------------|------------------------|
| 3004552008 | 1 | DS-8 | SW846 8260B | Ethylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 71.5 and the control limits were 73 to 133. | | | | |
| 3004552008 | 2 | DS-8 | SW846 8260B | Isopropylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 62 and the control limits were 71 to 137. | | | | |
| 3004552008 | 3 | DS-8 | SW846 8260B | 1,3,5-Trimethylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 55.7 and the control limits were 71 to 132. | | | | |
| 3004552008 | 4 | DS-8 | SW846 8260B | 1,2,4-Trimethylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as 52.8 and the control limits were 70 to 131. | | | | |
| 3004552008 | 5 | DS-8 | SW846 8260B | Naphthalene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 40.4 and the control limits were 60 to 146. | | | | |

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3004552 1836 Liberty Diesel Tanks

| Lab ID | Sample ID | Analysis Method | Prep Method |
|------------|-----------|-----------------|-------------|
| 3004552001 | DS-1 | S2540G-11 | |
| 3004552001 | DS-1 | SW846 8260B | SW846 5035 |
| 3004552002 | DS-2 | S2540G-11 | |
| 3004552002 | DS-2 | SW846 8260B | SW846 5035 |
| 3004552003 | DS-3 | S2540G-11 | |
| 3004552003 | DS-3 | SW846 8260B | SW846 5035 |
| 3004552004 | DS-4 | S2540G-11 | |
| 3004552004 | DS-4 | SW846 8260B | SW846 5035 |
| 3004552005 | DS-5 | S2540G-11 | |
| 3004552005 | DS-5 | SW846 8260B | SW846 5035 |
| 3004552006 | DS-6 | S2540G-11 | |
| 3004552006 | DS-6 | SW846 8260B | SW846 5035 |
| 3004552007 | DS-7 | S2540G-11 | |
| 3004552007 | DS-7 | SW846 8260B | SW846 5035 |
| 3004552008 | DS-8 | S2540G-11 | |
| 3004552008 | DS-8 | SW846 8260B | SW846 5035 |
| 3004552009 | DS-9 | S2540G-11 | |
| 3004552009 | DS-9 | SW846 8260B | SW846 5035 |

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ALS Environmental
 301 Pulford Ave. #202
 Madison, WI 53707
 608.244.9441
 608.244.1600

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
**ALL GRABED SAMPLES MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK**



1 of 1
 By Receiving Lab

Start Name: Maury A. Johnson
 Address: 199 Johnson Rd. #1772
Suite 101, Hudson, WI 53552
 Contact: Maury Johnson
 Project Name: 90-68240 - 102-2
 (S/T): Eric Johnson
 TAT: Normal Standard TAT is 48-72 business days.
 Our Request: See Request for all chemical and analytical
 Email: ALS Approve By: Eric Johnson
 FAX: ALS

Sample Description/Request: See Request for all chemical and analytical
 Date: 12/14/18
 Time: 10:00

| Sample ID | Date | Time | Signature | Time | Signature |
|-----------|----------|-------|---------------------|------|-----------|
| 05-1 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-2 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-3 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-4 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-5 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-6 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-7 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-8 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |
| 05-9 | 12/14/18 | 10:00 | <u>Eric Johnson</u> | | |

Quote # 90-68240
 Refs collected by / Company Name: ALS Environmental
 Date: 12/14/18
 Time: 10:00
 Signature: Eric Johnson
 Title: Analyst

ANALYTES/STANDARD REQUESTED: See Request for all chemical and analytical

Enter the Size of Containers Per Sample or Fluid Sample Below:

ALS Field Services: offsite water
 offsite sampling analysis laboratory
 offsite

Specializing in: See Request for all chemical and analytical
 Sample Disposal: See Request for all chemical and analytical

Scale Samples Collected to: See Request for all chemical and analytical

EDUC: Filed 7/7





December 17, 2018

Zach Lieb
Moody & Associates, Inc - Houston PA
199 S. Johnson Road
Suite 101
Houston, PA 15342

Certificate of Analysis

| | |
|---------------------------------------|---|
| Project Name: Moody # 18-266MM | Workorder: 3004553 |
| Purchase Order: | Workorder ID: 1836 Liberty Piping/Dispensers |

Dear Zach Lieb:

Enclosed are the analytical results for samples received by the laboratory on Friday, December 7, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matt Mitchell

Ms. Shannon Butler
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder: 3004553 1836 Liberty Piping/Dispensers

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------|--------|-----------------|-----------------|----------------|
| 3004553001 | DP-1 | Solid | 12/6/2018 08:50 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553002 | DP-2 | Solid | 12/6/2018 09:00 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553003 | GP-1 | Solid | 12/6/2018 09:10 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553004 | GP-2 | Solid | 12/6/2018 10:37 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553005 | GP-3 | Solid | 12/6/2018 10:40 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553006 | GP-4 | Solid | 12/6/2018 10:50 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553007 | GP-5 | Solid | 12/6/2018 11:00 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553008 | DD-1 | Solid | 12/6/2018 10:30 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553009 | DD-2 | Solid | 12/6/2018 11:22 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553010 | GD-1 | Solid | 12/6/2018 12:30 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553011 | GD-2 | Solid | 12/3/2018 12:35 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553012 | GD-3 | Solid | 12/3/2018 11:45 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004553013 | GD-4 | Solid | 12/3/2018 11:50 | 12/7/2018 09:18 | Moody & Assoc. |

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**SAMPLE SUMMARY**

Workorder: 3004553 1836 Liberty Piping/Dispensers

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |

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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553001**

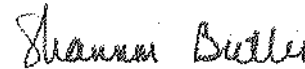
Date Collected: 12/6/2018 08:50

Matrix: Solid

 Sample ID: **DP-1**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Ethylbenzene | ND | | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Isopropylbenzene | ND | 1 | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Naphthalene | ND | | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Toluene | ND | | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| 1,2,4-Trimethylbenzene | ND | 3 | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| 1,3,5-Trimethylbenzene | ND | 2 | ug/kg | 2.1 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 86.7 | | % | 56 - 124 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| 4-Bromofluorobenzene (S) | 109 | | % | 51 - 128 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Dibromofluoromethane (S) | 96 | | % | 62 - 123 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/6/18 08:50 | JAH | 12/14/18 13:43 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 16.7 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 83.3 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553002**

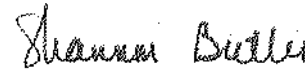
Date Collected: 12/6/2018 09:00

Matrix: Solid

 Sample ID: **DP-2**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Ethylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Naphthalene | 5.1 | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Toluene | 4.5 | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| 1,2,4-Trimethylbenzene | 3.9 | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 89.2 | | % | 56 - 124 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| 4-Bromofluorobenzene (S) | 108 | | % | 51 - 128 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Dibromofluoromethane (S) | 99.1 | | % | 62 - 123 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| Toluene-d8 (S) | 110 | | % | 59 - 131 | SW846 8260B | 12/6/18 09:00 | JAH | 12/14/18 14:11 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 9.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 90.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553003**

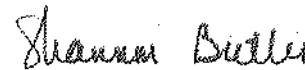
Date Collected: 12/6/2018 09:10

Matrix: Solid

 Sample ID: **GP-1**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Ethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Naphthalene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Toluene | 4.0 | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Total Xylenes | ND | | ug/kg | 5.4 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.8 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 86.5 | | % | 56 - 124 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| 4-Bromofluorobenzene (S) | 102 | | % | 51 - 128 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Dibromofluoromethane (S) | 96.1 | | % | 62 - 123 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/6/18 09:10 | JAH | 12/14/18 14:35 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 16.1 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 83.9 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553004**

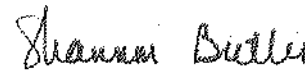
Date Collected: 12/6/2018 10:37

Matrix: Solid

 Sample ID: **GP-2**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Ethylbenzene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Naphthalene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Toluene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Total Xylenes | ND | | ug/kg | 3.2 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.1 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 87.3 | | % | 56 - 124 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| 4-Bromofluorobenzene (S) | 108 | | % | 51 - 128 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Dibromofluoromethane (S) | 97.5 | | % | 62 - 123 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| Toluene-d8 (S) | 109 | | % | 59 - 131 | SW846 8260B | 12/6/18 10:37 | JAH | 12/14/18 14:59 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 3.0 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 97.0 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553005**

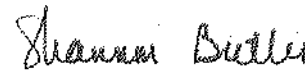
Date Collected: 12/6/2018 10:40

Matrix: Solid

 Sample ID: **GP-3**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Ethylbenzene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Naphthalene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Toluene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Total Xylenes | ND | | ug/kg | 4.3 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.4 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88.1 | | % | 56 - 124 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| 4-Bromofluorobenzene (S) | 104 | | % | 51 - 128 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Dibromofluoromethane (S) | 98.7 | | % | 62 - 123 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/6/18 10:40 | JAH | 12/14/18 15:22 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 7.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 92.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553006**

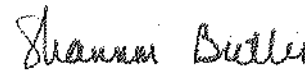
Date Collected: 12/6/2018 10:50

Matrix: Solid

 Sample ID: **GP-4**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Ethylbenzene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Naphthalene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Toluene | 17.7 | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Total Xylenes | ND | | ug/kg | 10.3 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 3.4 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 87.8 | | % | 56 - 124 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| 4-Bromofluorobenzene (S) | 104 | | % | 51 - 128 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Dibromofluoromethane (S) | 98.1 | | % | 62 - 123 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| Toluene-d8 (S) | 108 | | % | 59 - 131 | SW846 8260B | 12/6/18 10:50 | JAH | 12/14/18 15:46 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 24.1 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 75.9 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553007**

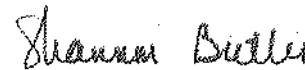
Date Collected: 12/6/2018 11:00

Matrix: Solid

 Sample ID: **GP-5**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Ethylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Isopropylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Methyl t-Butyl Ether | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Naphthalene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Toluene | 5.3 | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Total Xylenes | ND | | ug/kg | 4.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 1.5 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 87.6 | | % | 56 - 124 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| 4-Bromofluorobenzene (S) | 107 | | % | 51 - 128 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Dibromofluoromethane (S) | 97.3 | | % | 62 - 123 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| Toluene-d8 (S) | 109 | | % | 59 - 131 | SW846 8260B | 12/6/18 11:00 | JAH | 12/14/18 16:10 | DD | B |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 4.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 95.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553008**

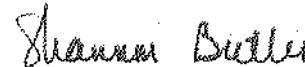
Date Collected: 12/6/2018 10:30

Matrix: Solid

 Sample ID: **DD-1**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Ethylbenzene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Naphthalene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Toluene | 7.6 | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.3 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 89 | | % | 56 - 124 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| 4-Bromofluorobenzene (S) | 102 | | % | 51 - 128 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Dibromofluoromethane (S) | 97 | | % | 62 - 123 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| Toluene-d8 (S) | 106 | | % | 59 - 131 | SW846 8260B | 12/6/18 10:30 | CPK | 12/14/18 16:33 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 20.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 79.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553009**

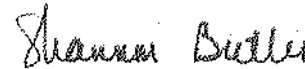
Date Collected: 12/6/2018 11:22

Matrix: Solid

 Sample ID: **DD-2**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Ethylbenzene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Naphthalene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Toluene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.6 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 89.8 | | % | 56 - 124 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| 4-Bromofluorobenzene (S) | 108 | | % | 51 - 128 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Dibromofluoromethane (S) | 98.6 | | % | 62 - 123 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| Toluene-d8 (S) | 109 | | % | 59 - 131 | SW846 8260B | 12/6/18 10:22 | CPK | 12/14/18 16:57 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 14.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 85.5 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553010**

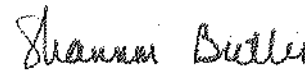
Date Collected: 12/6/2018 12:30

Matrix: Solid

 Sample ID: **GD-1**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Ethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Naphthalene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Toluene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Total Xylenes | ND | | ug/kg | 8.0 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88.7 | | % | 56 - 124 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| 4-Bromofluorobenzene (S) | 101 | | % | 51 - 128 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Dibromofluoromethane (S) | 97.3 | | % | 62 - 123 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| Toluene-d8 (S) | 106 | | % | 59 - 131 | SW846 8260B | 12/6/18 12:30 | CPK | 12/14/18 17:21 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 18.1 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 81.9 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553011**

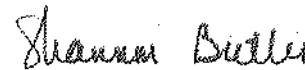
Date Collected: 12/3/2018 12:35

Matrix: Solid

 Sample ID: **GD-2**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Toluene | 3.3 | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Total Xylenes | ND | | ug/kg | 8.5 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.8 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 91.8 | | % | 56 - 124 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| 4-Bromofluorobenzene (S) | 117 | | % | 51 - 128 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Dibromofluoromethane (S) | 94.5 | | % | 62 - 123 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| Toluene-d8 (S) | 112 | | % | 59 - 131 | SW846 8260B | 12/3/18 12:35 | PDK | 12/13/18 06:25 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 28.2 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 71.8 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553012**

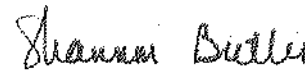
Date Collected: 12/3/2018 11:45

Matrix: Solid

 Sample ID: **GD-3**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Toluene | 3.9 | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Total Xylenes | ND | | ug/kg | 6.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 89 | | % | 56 - 124 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| 4-Bromofluorobenzene (S) | 109 | | % | 51 - 128 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Dibromofluoromethane (S) | 94.1 | | % | 62 - 123 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| Toluene-d8 (S) | 110 | | % | 59 - 131 | SW846 8260B | 12/3/18 11:45 | PDK | 12/13/18 06:49 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.7 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 82.3 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

 Lab ID: **3004553013**

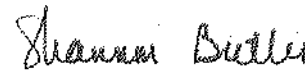
Date Collected: 12/3/2018 11:50

Matrix: Solid

 Sample ID: **GD-4**

Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Ethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Isopropylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Naphthalene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Toluene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Total Xylenes | ND | | ug/kg | 8.1 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.7 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 88.9 | | % | 56 - 124 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| 4-Bromofluorobenzene (S) | 113 | | % | 51 - 128 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Dibromofluoromethane (S) | 94.3 | | % | 62 - 123 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| Toluene-d8 (S) | 110 | | % | 59 - 131 | SW846 8260B | 12/3/18 11:50 | PDK | 12/13/18 07:12 | PDK | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 17.9 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |
| Total Solids | 82.1 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | |



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ANALYTICAL RESULTS

Workorder: 3004553 1836 Liberty Piping/Dispensers

PARAMETER QUALIFIERS

| Lab ID | # | Sample ID | Analytical Method | Analyte |
|--|---|-----------|-------------------|------------------------|
| 3004553001 | 1 | DP-1 | SW846 8260B | Isopropylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 64.5 and the control limits were 71 to 137. | | | | |
| 3004553001 | 2 | DP-1 | SW846 8260B | 1,3,5-Trimethylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 58.1 and the control limits were 71 to 132. | | | | |
| 3004553001 | 3 | DP-1 | SW846 8260B | 1,2,4-Trimethylbenzene |
| The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as 58 and the control limits were 70 to 131. | | | | |

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3004553 1836 Liberty Piping/Dispensers

| Lab ID | Sample ID | Analysis Method | Prep Method |
|------------|-----------|-----------------|-------------|
| 3004553001 | DP-1 | S2540G-11 | |
| 3004553001 | DP-1 | SW846 8260B | SW846 5035 |
| 3004553002 | DP-2 | S2540G-11 | |
| 3004553002 | DP-2 | SW846 8260B | SW846 5035 |
| 3004553003 | GP-1 | S2540G-11 | |
| 3004553003 | GP-1 | SW846 8260B | SW846 5035 |
| 3004553004 | GP-2 | S2540G-11 | |
| 3004553004 | GP-2 | SW846 8260B | SW846 5035 |
| 3004553005 | GP-3 | S2540G-11 | |
| 3004553005 | GP-3 | SW846 8260B | SW846 5035 |
| 3004553006 | GP-4 | S2540G-11 | |
| 3004553006 | GP-4 | SW846 8260B | SW846 5035 |
| 3004553007 | GP-5 | S2540G-11 | |
| 3004553007 | GP-5 | SW846 8260B | SW846 5035 |
| 3004553008 | DD-1 | S2540G-11 | |
| 3004553008 | DD-1 | SW846 8260B | SW846 5035 |
| 3004553009 | DD-2 | S2540G-11 | |
| 3004553009 | DD-2 | SW846 8260B | SW846 5035 |
| 3004553010 | GD-1 | S2540G-11 | |
| 3004553010 | GD-1 | SW846 8260B | SW846 5035 |
| 3004553011 | GD-2 | S2540G-11 | |
| 3004553011 | GD-2 | SW846 8260B | SW846 5035 |
| 3004553012 | GD-3 | S2540G-11 | |
| 3004553012 | GD-3 | SW846 8260B | SW846 5035 |
| 3004553013 | GD-4 | S2540G-11 | |
| 3004553013 | GD-4 | SW846 8260B | SW846 5035 |

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Order Number: **11221**
 Order Date: **12/17/18**

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT!
SAMPLER INSTRUCTIONS ON THE BACK

Client Name: **Monks & Associates**
 Address: **15 Johnson Rd. Box #2**
Ste. 101 Hackett NJ 07042

Contact: **Joe K. Smith**
 Phone: **908-235-9681**
 Project Name: **Site Investigation Heavy Heavy Industry/Disasters**
 Site No: **Dem. 18-332-MO**

TAT: **Additional Detailed TAT to 48 hours there**
to include all sampling and analysis.
 Date Received: **3/11/18** Approved By: **[Signature]**
 Email: **[Email]**
 Fax: **[Fax]**

Sample Description/Location: **DP-1** **DP-2** **GP-1** **GP-2** **GP-3** **GP-4** **GP-5** **DD-1** **DD-2** **GA-1**

Time: **12:45 PM** **1:00 PM** **1:15 PM** **1:30 PM** **1:45 PM** **2:00 PM** **2:15 PM** **2:30 PM** **2:45 PM** **3:00 PM**

Temp: **50** **50** **50** **50** **50** **50** **50** **50** **50** **50**

Moisture: **4** **4** **4** **4** **4** **4** **4** **4** **4** **4**

ANALYSIS METHOD REQUESTED

2.01 **WAGBON WAD**
120L and 120L

ALB Field Services: **Filterup Filter**
Compatible Sampling Material Equipment
Filter

| Sample # | Time | Temp | Moisture | Method | Filter | Filter Type | Requested By / Delivery Method |
|----------|----------|------|----------|------------|--------|-------------|--------------------------------|
| DP-1 | 12:45 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| DP-2 | 1:00 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GP-1 | 1:15 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GP-2 | 1:30 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GP-3 | 1:45 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GP-4 | 2:00 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GP-5 | 2:15 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| DD-1 | 2:30 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| DD-2 | 2:45 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |
| GA-1 | 3:00 PM | 50 | 4 | WAGBON WAD | 120L | 120L | [Signature] |

Requested By / Company Name: **Monks & Associates**

Project Location: **40-692240**

Special Instructions: **ANALYSIS METHOD REQUESTED**

Signature: **[Signature]**

COC # 3004853
 ALSI Quote # 92 of 92

CHAIN OF CUSTODY REQUEST FOR ANALYSIS
 ALL SHaded AREAS MUST BE COMPLETED BY THE CLIENT
 SAMPLER INSTRUCTIONS ON THE BACK

281 Sultry Mill Road
 Middletown, PA 17057
 717-844-3341
 817-964-1433



Client Name: Meedy & Associates
Address: 99 S. Johnson Rd. #100
 Ste 101, Hershey, PA 17333-1212

Project Name: 18-12-18-12-18-12
Site: 18-12-18-12-18-12

Project Location: 18-12-18-12-18-12

Project Dates: 12-15-18 to 12-17-18

Client Representative: [Signature]

ALS Representative: [Signature]

Chain of Custody:

| Sample ID | Date | Time | Received By / Company Name | Date | Time |
|-----------|----------|------|----------------------------|----------|------|
| GD-2 | 12-15-18 | 6:50 | [Signature] | 12-15-18 | 6:50 |
| GD-3 | 12-15-18 | 6:50 | [Signature] | 12-15-18 | 6:50 |
| GD-4 | 12-15-18 | 6:50 | [Signature] | 12-15-18 | 6:50 |

Analysis Method Requested: ANALYZE METHOD REQUESTED

Sample Description: Milk

Sample Location: Milk

Sample Volume: 100 mL

Sample Temperature: 4°C

Sample Preservation: Refrigerated

Sample Storage: 4°C

Sample Analysis: [Table with columns for various analytes and results]

ALS Environmental
 281 Sultry Mill Road
 Middletown, PA 17057
 717-844-3341
 817-964-1433



December 17, 2018

Zach Lieb
Moody & Associates, Inc - Houston PA
199 S. Johnson Road
Suite 101
Houston, PA 15342

Certificate of Analysis

| | | | |
|-----------------|-------------------------|---------------|------------------------------|
| Project Name: | Moody # 18-266MM | Workorder: | 3004551 |
| Purchase Order: | | Workorder ID: | 1836 Liberty Test Pit |

Dear Zach Lieb:

Enclosed are the analytical results for samples received by the laboratory on Friday, December 7, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matt Mitchell

Ms. Shannon Butler
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder: 3004551 1836 Liberty Test Pit

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-------------------|--------|-----------------|-----------------|----------------|
| 3004551001 | Test Pit-1 (West) | Solid | 12/5/2018 13:25 | 12/7/2018 09:18 | Moody & Assoc. |
| 3004551002 | Test Pit-2 (East) | Solid | 12/5/2018 13:30 | 12/7/2018 09:18 | Moody & Assoc. |

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**SAMPLE SUMMARY**

Workorder: 3004551 1836 Liberty Test Pit

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |

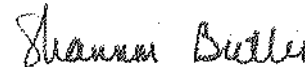
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ANALYTICAL RESULTS

Workorder: 3004551 1836 Liberty Test Pit

 Lab ID: **3004551001** Date Collected: 12/5/2018 13:25 Matrix: Solid
 Sample ID: **Test Pit-1 (West)** Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Ethylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Isopropylbenzene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Methyl t-Butyl Ether | 12.8 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Naphthalene | 6.9 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Toluene | ND | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| 1,2,4-Trimethylbenzene | 21.2 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| 1,3,5-Trimethylbenzene | 6.9 | | ug/kg | 2.0 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 90.2 | | % | 56 - 124 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| 4-Bromofluorobenzene (S) | 102 | | % | 51 - 128 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Dibromofluoromethane (S) | 95.9 | | % | 62 - 123 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| Toluene-d8 (S) | 107 | | % | 59 - 131 | SW846 8260B | 12/5/18 13:25 | TMP | 12/13/18 18:13 | TMP | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 21.3 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 78.7 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

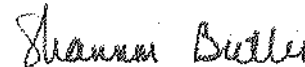
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 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey


ANALYTICAL RESULTS

Workorder: 3004551 1836 Liberty Test Pit

 Lab ID: **3004551002** Date Collected: 12/5/2018 13:30 Matrix: Solid
 Sample ID: **Test Pit-2 (East)** Date Received: 12/7/2018 09:18

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Benzene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Ethylbenzene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Isopropylbenzene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Methyl t-Butyl Ether | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Naphthalene | ND | | ug/kg | 58.9 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Toluene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 29.5 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichloroethane-d4 (S) | 115 | | % | 71 - 146 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| 4-Bromofluorobenzene (S) | 116 | | % | 46 - 138 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Dibromofluoromethane (S) | 107 | | % | 42 - 143 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| Toluene-d8 (S) | 113 | | % | 54 - 141 | SW846 8260B | 12/5/18 13:30 | CPK | 12/14/18 19:14 | DD | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 18.2 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |
| Total Solids | 81.8 | | % | 0.1 | S2540G-11 | | | 12/10/18 10:00 | AXD | D |



 Ms. Shannon Butler
 Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3004551 1836 Liberty Test Pit

| Lab ID | Sample ID | Analysis Method | Prep Method |
|------------|-------------------|-----------------|-------------|
| 3004551001 | Test Pit-1 (West) | S2540G-11 | |
| 3004551001 | Test Pit-1 (West) | SW846 8260B | SW846 5035 |
| 3004551002 | Test Pit-2 (East) | S2540G-11 | |
| 3004551002 | Test Pit-2 (East) | SW846 8260B | SW846 5035 |

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301 Valley Mill Road
 Newtown, PA 17057
 P: 717-846-8341
 F: 717-846-8342



environmental

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT!
 SAMPLE INSTRUCTIONS ON THE BACK**

Client Name: Moody Associates
 Address: 149 S. Johnson Rd. #107A
Shelton Township, PA 17352
 Contact: John G. 717-275-2821
 Project Name: Waste Liberty Tract #1
 EIR ID: 2008-08-206-PM
 Site Address: 12-1-2018 Approved by
 EIR # 2008-08-206-PM
 Fee # 2008-08-206-PM

Request Information Requested by (Shading Lab)
 Order Items: 2 Thru: 105
 No. of Samples: 2 S: 105
 Direct Data Request
 All pending Data Request
 Payment in Full
 Field Only Request
 Field to Field Request
 Direct Delivery
 Return Items Requested
 Service Interruption
 Hazardous Material
 Detection Method: GC/MS
 Sample Marking #: 2018-08-206-PM
 Sample ID: 2018-08-206-PM

ANALYTES/TESTS REQUESTED

| Sample ID | Date | Time | Site | Event Number or Container For Sample or Field Parcel Address |
|------------------|----------|---------|-------|--|
| Test #1-1 (West) | 12-18-18 | 6:50 AM | GC/MS | Field File (GC/MS) |
| Test #1-2 (East) | 12-18-18 | 6:50 AM | GC/MS | Field File (GC/MS) |

Project Overview:
 Quote # 40-692240
 Reference by / Category Name: Waste Liberty Tract #1
 Date: 12-18-18 Time: 6:50 AM
 Increased by / Decrease from: 105
 Special Processing: GC/MS
 Base Samples Collected in: 105
 Reportable to PASOP: 105
 Sample Disposal: GC/MS
 EIR ID: 2008-08-206-PM
 Fee # 2008-08-206-PM
 EIR # 2008-08-206-PM

ALS Environmental
 301 Valley Mill Road
 Newtown, PA 17057
 P: 717-846-8341
 F: 717-846-8342

Appendix C
Disposal Documents



DATE: 01/04/19

CUSTOMER: Empaco Equipment Corporation
ADDRESS: 2958 Brecksville Road Richfield, Ohio 44286

This letter is to serve as proof of destruction for scrap materials picked up at Empaco's facility, located at 1826 Lincoln Hwy, North Versailles, PA 15137 and delivered to our facility.

Metalico Pittsburgh guarantees that the material received from Empaco has been destroyed for re-melt purposes only in compliance with all applicable federal, state, and local laws. All processing and destruction of any picked up and delivered scrap material complies with governmental and environmental guidelines and regulations.

All materials are collected and destroyed on site, and kept in our secured and monitored facility until such time it is loaded and shipped for re-melt.

If you have any questions please call me at 412-771-7000 ext 210.

Sincerely,
Jordan Fortney
Buyer
Metalico Pittsburgh, Inc.

Purchase History

Purchase History Register

01/04/2019 2:52:27 PM

From Account: 10085 Thru Account: 10085
 For Commodity Group(s): FE For Yard(s): P2,P2T
 From Receiver Date: 12/01/2018 Thru Receiver Date: 01/04/2019
 Show Unposted
 Commodity Sequence Detail Report Total UM

| Commodity Account | Description Name | City | Type | State | Acct | Trader | Net UM | Price / UM | Amount | |
|-------------------|------------------|------------------------------|------|---------|------------|---------|-----------|------------|-------------|----------|
| Receiver | Recv Date | Yard | Trd | Invoice | Inv Date | Period | Reference | Contract | | |
| FE | FE | FERROUS | | | | | | | | |
| FE201 | | HMS UNPREP SHEARING | | | | | | FE | | |
| 10085 | | EMPACO EQUIPMENT CORPORATION | | | | | | RICHFIELD | | |
| 630389 | 12/07/2018 | P2 | JOR | 630389 | 12/07/2018 | 2018/12 | | | | |
| | | | | | | | | OH | JOR | |
| | | | | | | | | 4,240 | 250.00 / GT | 473.23 |
| | | | | | | | | 1.8929 | GT | 473.23 |
| | | | | | | | | 1.8929 | GT | 473.23 |
| | | | | | | | | | | |
| FE202 | | HMS UNPREP TORCHING | | | | | | FE | | |
| 10085 | | EMPACO EQUIPMENT CORPORATION | | | | | | RICHFIELD | | |
| 630036 | 12/05/2018 | P2 | DC | 630036 | 12/05/2018 | 2018/12 | | | | |
| 630321 | 12/07/2018 | P2 | JOR | 630321 | 12/07/2018 | 2018/12 | | | | |
| 630326 | 12/07/2018 | P2 | JOR | 630326 | 12/07/2018 | 2018/12 | | | | |
| | | | | | | | | OH | JOR | |
| | | | | | | | | 9,140 | 250.00 / GT | 1,020.10 |
| | | | | | | | | 9,640 | 250.00 / GT | 1,075.90 |
| | | | | | | | | 3,680 | 250.00 / GT | 410.73 |
| | | | | | | | | 10.0268 | GT | 2,506.73 |
| | | | | | | | | 10.0268 | GT | 2,506.73 |
| | | | | | | | | | | |
| FE301 | | P&S UNPREP SHEARING | | | | | | FE | | |
| 10085 | | EMPACO EQUIPMENT CORPORATION | | | | | | RICHFIELD | | |
| 630107 | 12/05/2018 | P2 | JOR | 630107 | 12/05/2018 | 2018/12 | | | | |
| 630387 | 12/07/2018 | P2 | JOR | 630387 | 12/07/2018 | 2018/12 | | | | |
| | | | | | | | | OH | JOR | |
| | | | | | | | | 8,620 | 250.00 / GT | 962.05 |
| | | | | | | | | 3,600 | 250.00 / GT | 401.78 |
| | | | | | | | | 5.4554 | GT | 1,363.83 |
| | | | | | | | | 5.4554 | GT | 1,363.83 |
| | | | | | | | | 17.375 | GT | 4,343.79 |
| | | | | | | | | 17.375 | GT | 4,343.79 |
| | | | | | | | | 17.375 | GT | 4,343.79 |
| | | | | | | | | 17.375 | GT | 4,343.79 |
| | | | | | | | | 17.375 | GT | 4,343.79 |
| | | | | | | | | 17.375 | GT | 4,343.79 |

SITE
 CARBON LIMESTONE LANDFILL 330-536-8013
 8100 S. Stateline Rd Lowellville, OH 44436

CUSTOMER
 778126
 EMPACO EQUIPMENT CORPORATION
 2958 BRECKSVILLE ROAD
 RICHFIELD, OH 44286
 Contract:50761820130
 Generator:KRG North Versailles LLC (Former Maratho

| | | |
|------------------|--------------|------------------|
| SITE | TICKET # | CELL |
| V1 | 1366606 | |
| WEIGHMASTER | | |
| DATE/TIME IN | IN Robert S. | OUT Heather H. |
| 1/10/19 12:22 pm | | 1/10/19 12:46 pm |
| VEHICLE | EMPACO | CONTAINER |
| REFERENCE | 48 | |
| BILL OF LADING | 20130-01 | |

| | | | | |
|-----------------------|--------|------------|-------|---------|
| SCALE IN GROSS WEIGHT | 32,720 | NET TONS | 1.68 | INBOUND |
| SCALE OUT TARE WEIGHT | 29,360 | NET WEIGHT | 3,360 | INVOICE |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|--------------------------|------|-----------|-----|-------|
| 20.00 | YD | Tracking QTY | | | | |
| 1.68 | tn | SW-PLASTIC | | | | |
| 1.00 | | ENVIRONMENTAL FEE 1 | | | | |
| | | Origin:ALLEGHENY-PA 100% | | | | |

Hours of operation:
 M-F 8:00 AM to 3:00 PM
 Sat 8:00 AM to 12:00 PM
 THANK YOU FOR YOUR BUSINESS!

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

Kurt Hayes

NET AMOUNT

TENDERED

CHANGE

CHECK#

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
N/A

2. Page 1 of 2

3. Emergency Response Phone
330-677-0785

4. Waste Tracking Number
011419-3

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

c/o Empaco Equipment Corp.
1826 Lincon Highway
North Versailles, PA 15137

From:

Generator's Phone: 330-659-9393

6. Transporter 1 Company Name

Emerald Environmental Services, Inc

U.S. EPA ID Number

OHR 000 102 053

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Emerald Environmental Services, Inc.
1621 St. Clair Ave
Kent, Ohio 44240

U.S. EPA ID Number

Facility's Phone:

330-677-0785

N/A

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non DOT Regulated, Nonhazardous Material
(petroleum impacted water)

6

TT

2400

P

13. Special Handling Instructions and Additional Information

9b1.) Approval# EC 6171
Tanker#

Job#
Received @ EES and re-manifested to ESI for disposal

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

Wayne Huth agent

Wayne Huth

1 14 19

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Wayne Huth Wayne Huth

Wayne Huth

1 14 19

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Nancy Franco

Nancy Franco

01 14 19

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

| | | | | | |
|--|--------------|--|--|----------------------|-------------------|
| a. Generator's US EPA ID Number NA | | b. Manifest Document Number 20130-01 | | c. Page 1 of 1 | |
| d. Generator's Name and Location: KRG North Versailles 1826 Lincoln Highway North Versailles, PA f. Phone: 619-687-5000 | | | e. Generator's Mailing Address: 12730 High Bluff Drive San Diego, CA 92130 g. Phone: 619-687-5000 | | |
| If owner of the generating facility differs from the generator, provide: | | | i. Owner's Phone No.: NA | | |
| h. Owner's Name: NA | | | | | |
| j. Waste Profile # | k. Exp. Date | l. Waste Shipping Name and Description | m. Containers No. Type | n. Total Quantity | o. Unit Wt/Vol |
| 5076 18 20130 | 12/03/2019 | PLASTIC PIPING CONTANMENT COMPONENTS FROM UST CLOSURE ACTIVITY | 01 CM | -20 | TN |
| GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. | | | | | |
| p. Generator Authorized Agent Name (Print) PAUL J. BACKO | | q. Signature <i>Paul J. Backo</i> | | r. Date 1-10-2019 | |

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

| | | |
|--|-------------------------------------|--------------------|
| a. Transporter's Name and Address: EMPACO EQUIPMENT | | |
| b. Phone: 330-657-9393 | | |
| c. Driver Name (Print) KURT HARTSEN | d. Signature <i>Kurt Hartsen</i> | e. Date 1-10-19 |

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

| | | |
|---|----------------------------------|----------------------------------|
| a. Disposal Facility and Site Address: CARBON LIMESTONE LANDFILL 8100 SOUTH STATELINE ROAD LOWELLVILLE, OH 44436 b. Phone: 330-536-8013 | c. US EPA Number OHD987048212 | d. Discrepancy Indication Space: |
| I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. | | |
| e. Name of Authorized Agent (Print) ROBERT | f. Signature <i>Robert</i> | g. Date 1-10-19 |

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

| | |
|--|---|
| a. Operator's Name and Address: NA | c. Responsible Agency Name and Address: NA |
| b. Phone: | d. Phone: |
| e. Special Handling Instructions and Additional Information: | |
| f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable | |
| OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. | |
| g. Operator's Name and Title (Print) | i. Date |
| h. Signature | |
| *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both | |

FOR LEAK, FIRE OR MEDICAL EMERGENCY, CALL
 INFOTRAC AT 1-800-535-5052 AND REFERENCE
 CONTRACT #104631

| | | | | | |
|---|------------------------------------|--|---------------------------------------|---|---------------------------|
| BILL OF LADING MATERIAL MANIFEST | | 1. Generator ID Number CES03 | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 535-5052 | Document Number 130184 |
| 4. Generator's Name and Mailing Address FORMER MARATHON GAS STATION | | Generator's Site Address (if different than mailing address) | | | |
| 1836 LINCOLN HIGHWAY, NORTH VERSAILLE, PA 15137 Generator's Phone (412) 527-5000 | | | | | |
| 5. Transporter 1 Company Name EMERSON ENVIRONMENTAL DIV. OF BUNPRO | 6. US EPA ID Number OH000333336 | A. Transporter's Phone (216) 847-1311 | | | |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone | | | |
| 9. Designated Facility Name and Site Address ENVIRONMENTAL SPECIALISTS 1101 ANDREWS AVE, YOUNGSTOWN, OH 44501 | | 10. US EPA ID Number OHD000816868 | C. Facility's Phone (330) 746-2174 | | |
| 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | 12. Containers | 13. Total Quantity | 14. Unit Wt/Vol | |
| a. NG, UN1993, FLAMMABLE LIQUIDS, N.O.S., 3. PGI (GAS, DIESEL, WATER), ERG 128 | | No. Type | | | |
| | | 70 20181202 JMS 001 FT | 4800 | 3 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | 15 |
| e. | | | | | 15 |
| 15. Special Handling Instructions and Additional Information EXEMPT PER 40CFR125.1.2 FOR RECYCLE #610 EMERSON 0051272 | | | | | |
| 16. GENERATOR CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. | | | | | |
| Printed/Typed Name KYLE LAZZARINI | | Signature <i>[Signature]</i> | | Month | Day Year |
| | | | | 12 | 4 18 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name R. L. D. <i>[Signature]</i> | | Signature <i>[Signature]</i> | | Month | Day Year |
| | | | | 12 | 4 18 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month | Day Year |
| | | | | | |
| 19. Discrepancy | | | | | |
| 19a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | |
| Manifest Reference Number: | | | | | |
| 19b. Alternate Facility (or Generator) | | US EPA ID Number | | | |
| Facility's Phone: | | | | | |
| 19c. Signature of Alternate Facility (or Generator) | | Signature | | Month | Day Year |
| | | | | | |
| 20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 19a | | | | | |
| Printed/Typed Name Joe Caron | | Signature <i>[Signature]</i> | | Month | Day Year |
| | | | | 12 | 4 18 |

TRANSPORTER #1

FOR LEAK, FIRE OR MEDICAL EMERGENCY, CALL
 INFOTRAC AT 1-800-535-5053 AND REFERENCE
 CONTRACT #104831

| | | | | | |
|---|--|--|---------------------------------------|---|---------------------------|
| BILL OF LADING MATERIAL MANIFEST | | 1. Generator ID Number CESOG | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 535-5053 | Document Number 130195 |
| 4. Generator's Name and Mailing Address FORMER MARATHON GAS STATION | | Generator's Site Address (if different than mailing address) | | | |
| 1026 LINCOLN HIGHWAY, NORTH VERSAILLE, PA 15137 | | | | | |
| Generator's Phone: (610) 687-5000 | | ATTN: ERIC LOFGREN | | | |
| 5. Transporter 1 Company Name ENVIROSERVE, DIV. OF SUNPRO | 6. US EPA ID Number OH0000333336 | A. Transporter's Phone (216) 642-1311 | | | |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone | | | |
| 9. Designated Facility Name and Site Address ENVIRONMENTAL SPECIALISTS 1101 ANDREWS AVE, YOUNGSTOWN, OH 44501 | | 10. US EPA ID Number OHD000816888 | C. Facility's Phone (330) 746-8174 | | |
| 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | | 12. Containers | 13. Total Quantity | 14. Unit Wt/Vol |
| | | | No. | Type | |
| a. | RD. UN1993, FLAMMABLE LIQUIDS, N.O.S., 3. PGH (GAS, DIESEL WATER), ERG 120 | | 001 | TT | 2802 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| e. | | | | | |
| 15. Special Handling Instructions and Additional Information EXEMPT PER 40CFR261.2...FOR RECYCLE #610 | | | | | |
| 16. GENERATOR CERTIFICATION: I hereby declare that the contents of this consignment are truly and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. | | | | | |
| Printed/Typed Name KYLE LATVOIA | | Signature | | Month 12 | Day 5 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | Signature | | Month 12 | Day 5 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | Signature | | Month | Day |
| 19. Discrepancy | | | | | |
| 19a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | |
| Manifest Reference Number: | | | | | |
| 19b. Alternate Facility (or Generator) US EPA ID Number | | | | | |
| Facility's Phone: | | | | | |
| 19c. Signature of Alternate Facility (or Generator) | | Signature | | Month | Day |
| 20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 19a | | | | | |
| Printed/Typed Name Joshua Brantley | | Signature | | Month | Day |

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

TRANSPORTER #1

35th Strouss Associates



TO Kevin Halloran *KA*
Environmental Program Manager

FROM John D. Kernic *JDK*
DEP Project Manager

DATE April 28, 2017

RE ECP – Land Recycling Program
Act 2 Technical Memo Summary
Non-residential Site Specific Standard Combined
Remedial Investigation Report and Final Report
35th Strouss Associates Property
eFACTS PF # 811468
eFACTS Activity # 49553
LRP # 5-2-132-19514
North Versailles Township
Allegheny County

Property Owner Name and Site Address:

Phil Bishop
35th Strouss Associates
1810 Lincoln Highway
North Versailles

Act 2 Standard(s) Sought:

The Non-residential Site Specific Standard for soil and groundwater is sought for this site.

Property Size:

The site is composed of two parcels with a combined acreage of approximately 4.18 acres.

Project Site History:

The site was originally developed and used as an electrical brush manufacturing facility (Trans Tech, Inc.) from 1956-1989. The site was later used as a prescription distribution center (Flex Rx, Inc.) from 1989-2008 and a call center from 2008-2014. The site has been unoccupied/unused since 2014.

35th Strouss Associates has owned the site since 2014. The current site consists of a two-story building (approximately 50,000 sq ft.) and three asphalt parking lots.

Site Findings:

The site is located near the top of a hill on the south facing slope between two small headwater unnamed tributaries to Jacks Run.

The site is underlain by varying amounts of fill ranging from one foot thick to twenty feet thick. In general, the fill is thickest to the south and east of the onsite building and consists of varying amounts of slag, gravel, sand, clay and rock fragments. Bedrock was found as shallow as two feet and as deep as 28 feet. The shallow bedrock encountered was a sandstone.

The water table is present under unconfined conditions and was encountered within the sandstone bedrock at depths ranging from 9 ft. to 19 ft. Groundwater beneath the site flows generally towards the south/southwest.

The site is believed to have been impacted by historic industrial use of the site by an electrical brush manufacturer whose operations included cleaning/degreasing/pressure washing activities.

1,1-Dichloroethylene (1,1-DCE) was detected in one subsurface soil sample at concentrations slightly above the soil vapor screening value for non-residential soil. No other tested parameters in soil (TCL-VOC's, PAHs, or RCRA metals) were detected at concentrations exceeding the non-residential Act 2 direct contact or soil-groundwater MSCs. Five sub-slab vapor points were sampled. There were no exceedances of the Non-residential Volatilization to Indoor Air Sub-Slab Soil Gas Screening values or the Non-residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values-effective January 18, 2017, for VOCs and SVOCs.

Cadmium and 1,1-DCE were detected in two groundwater sampling points that exceeded non-residential, used aquifer groundwater Medium Specific Concentrations (MSCs). None of the other tested parameters in groundwater (TCL-VOCs, or RCRA metals) were detected at concentrations exceeding non-residential Act 2 MSCs. This site and surrounding area is supplied with city water.

Site Cleanup History:

- November 1988, Environmental Assessment Report was prepared by Schneider Engineers.
- November 1992, Phase I Environmental Site Assessment Update Report was prepared by SE Technologies.
- January 9, 2013, Phase I Environmental Site Assessment Report was prepared by GAI Consultants, Inc.
- February 17, 2016, Summary Report, Phase II ESA was prepared by American Geosciences, Inc.
- April 21, 2016, Summary of Initial Site Characterization Results Report was prepared by American Geosciences, Inc.
- July 18, 2016, Notice of Intent to Remediate (NIR) was submitted to PADEP by Civil & Environmental Consultants, Inc.
- January 6, 2017, Combined Remedial Investigation Report and Final Report submitted to PADER by Civil & Environmental Consultants, Inc.

Discussion of Cleanup Involved and Demonstration of Attainment:

Pathway elimination was used to demonstrate attainment of the Act 2 Site Specific Standard for the identified contaminants.

Based upon the current site conditions there was shown to be no current or probable pathways. No engineering controls are needed to demonstrate attainment; however, an Environmental Covenant (an institutional control) will be needed and include the following;

- Acknowledge the presence of groundwater impacts
- Restrict the site to non-residential uses
- Prohibit the use of groundwater for any purpose
- A schedule for reporting to PADEP the results of site assessments to demonstrate ongoing maintenance of the conditions in the EC

DEP Final Action Approval/Disapproval Letter:

Approval of the combined RIR and Final Report should be forth coming.

DEP Contact: John Kernic **Phone:** 412 442-5237

Site Contact: Phil Bishop **Phone:** 412 967-4661

Site Consultant: Jennifer Ewing **Phone:** 412 429-2324

bcc: K. Halloran
P. Vogel
J. Dewey
E. Elliott
J. Kernic
Region
CHRON



May 4, 2017

Phil Bishop, Vice President
35th Strouss Associates
701 Alpha Drive – 1st Floor
Pittsburgh, PA 15238-2820

Re: Non-Residential, Site Specific Standard Final Report Approval
35th Strouss Associates
eFACTS PF# 811468
eFACTS Activity # 49553
LRP # 5-2-132-19514
1810 Lincoln Highway
North Versailles Township, Allegheny County

Dear Mr. Bishop:

The Department of Environmental Protection (DEP) reviewed the document titled "Remedial Investigation Report and Final Report, 1810 Lincoln Highway, North Versailles" (report) for the property referenced above. The report was prepared by Civil & Environmental Consultants, Inc. and submitted to DEP in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2) and constitutes a final report as defined in Chapter 3 of Act 2.

DEP hereby approves this final report for the substances identified and remediated to an Act 2 standard within the site(s) specified. Chapter 5, Section 501 of Act 2, provides the liability protection where attainment of Act 2 cleanup standards is demonstrated. The cleanup liability protection provided by this chapter applies to the current and future owner or any other person who participated in the remediation; a person who develops or occupies the property; successor or assign of any person to whom liability protection applies; and a public utility to the extent the public utility performs activities on the identified property(ies).

This project attained a Non-residential, Site Specific Standard for soil and groundwater.

The Uniform Environmental Covenants Act (Act 68 of 2007), Title 27, Pa. C.S. Chapter 65 (UECA) and accompanying regulations provide a standardized process for creating, documenting and assuring the enforceability of activity and use limitations on contaminated properties involving most engineering and institutional controls used to achieve Act 2 standards. Since the report utilizes activity and use limitations or will have post remedial care obligations to meet and/or attain the Non-residential Site Specific Standard, an environmental covenant is required to be submitted within 30 days of the date of this approval letter.

Please refer to the enclosed Standard Attachment for other DEP program requirements for considerations which may be applicable to the referenced site.

Thank you for your cooperation in working with DEP in the remediation of this site. If you have any questions or need further information regarding this matter, please contact John Kernic by e-mail at jkernic@pa.gov or by telephone at 412 442-5237.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section §7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

If you want to challenge this action, your appeal must reach the Board within 30 days. You do not need a lawyer to file an appeal with the Board.

Important legal rights are at stake, however, so you should show this document to a lawyer at once. If you cannot afford a lawyer, you may qualify for free pro bono representation. Call the Secretary to the Board (717.787.3483) for more information.

Sincerely,



Kevin Halloran
Environmental Program Manager
Environmental Cleanup and Brownfields Program

Enclosure: Standard Attachment

cc: Civil & Environmental Consultants, Inc. - Jennifer A. Ewing, P.G.
Allegheny County Conservation District - Jan Lauer District Manager Riverwalk
North Versailles Township - Patricia Logo, Township Manager

Please refer to the enclosed Standard Attachment for other DEP program requirements for considerations which may be applicable to the referenced site.

Thank you for your cooperation in working with DEP in the remediation of this site. If you have any questions or need further information regarding this matter, please contact John Kernic by e-mail at jkernic@pa.gov or by telephone at 412 442-5237.

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If you want to challenge this action, your appeal must reach the Board within 30 days. You do not need a lawyer to file an appeal with the Board.

Important legal rights are at stake, however, so you should show this document to a lawyer at once. If you cannot afford a lawyer, you may qualify for free pro bono representation. Call the Secretary to the Board (717.787.3483) for more information.

Sincerely,



Kevin Halloran
Environmental Program Manager
Environmental Cleanup and Brownfields Program

Enclosure: Standard Attachment

cc: Civil & Environmental Consultants, Inc. - Jennifer A. Ewing, P.G. 333 Baldwin Road Pittsburgh, PA 15205
Allegheny County Conservation District - Jan Lauer District Manager Riverwalk Corporate Center 33 Terminal Way, Suite 325B Pittsburgh, PA 15219
North Versailles Township - Patricia Logo, Township Manager 1401 Greensburg Ave North Versailles, PA 15137

bcc: Regional File 5-2-132-19514; Chron; K. Halloran; P. Vogel; J. Dewey; J. Kernic; E. Elliott



TO Kevin Halloran *KA*
Environmental Program Manager

FROM John D. Kernic *JDK*
DEP Project Manager

DATE April 28, 2017

RE ECP – Land Recycling Program
Act 2 Technical Memo Summary
Non-residential Site Specific Standard Combined
Remedial Investigation Report and Final Report
35th Strouss Associates Property
eFACTS PF # 811468
eFACTS Activity # 49553
LRP # 5-2-132-19514
North Versailles Township
Allegheny County

Property Owner Name and Site Address:

Phil Bishop
35th Strouss Associates
1810 Lincoln Highway
North Versailles

Act 2 Standard(s) Sought:

The Non-residential Site Specific Standard for soil and groundwater is sought for this site.

Property Size:

The site is composed of two parcels with a combined acreage of approximately 4.18 acres.

Project Site History:

The site was originally developed and used as an electrical brush manufacturing facility (Trans Tech, Inc.) from 1956-1989. The site was later used as a prescription distribution center (Flex Rx, Inc.) from 1989-2008 and a call center from 2008-2014. The site has been unoccupied/unused since 2014.

35th Strouss Associates has owned the site since 2014. The current site consists of a two-story building (approximately 50,000 sq ft.) and three asphalt parking lots.

Site Findings:

The site is located near the top of a hill on the south facing slope between two small headwater unnamed tributaries to Jacks Run.

The site is underlain by varying amounts of fill ranging from one foot thick to twenty feet thick. In general, the fill is thickest to the south and east of the onsite building and consists of varying amounts of slag, gravel, sand, clay and rock fragments. Bedrock was found as shallow as two feet and as deep as 28 feet. The shallow bedrock encountered was a sandstone.

The water table is present under unconfined conditions and was encountered within the sandstone bedrock at depths ranging from 9 ft. to 19 ft. Groundwater beneath the site flows generally towards the south/southwest.

The site is believed to have been impacted by historic industrial use of the site by an electrical brush manufacturer whose operations included cleaning/degreasing/pressure washing activities.

1,1-Dichloroethylene (1,1-DCE) was detected in one subsurface soil sample at concentrations slightly above the soil vapor screening value for non-residential soil. No other tested parameters in soil (TCL-VOC's, PAHs, or RCRA metals) were detected at concentrations exceeding the non-residential Act 2 direct contact or soil-groundwater MSCs. Five sub-slab vapor points were sampled. There were no exceedances of the Non-residential Volatilization to Indoor Air Sub-Slab Soil Gas Screening values or the Non-residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values-effective January 18, 2017, for VOCs and SVOCs.

Cadmium and 1,1-DCE were detected in two groundwater sampling points that exceeded non-residential, used aquifer groundwater Medium Specific Concentrations (MSCs). None of the other tested parameters in groundwater (TCL-VOCs, or RCRA metals) were detected at concentrations exceeding non-residential Act 2 MSCs. This site and surrounding area is supplied with city water.

Site Cleanup History:

- November 1988, Environmental Assessment Report was prepared by Schneider Engineers.
- November 1992, Phase I Environmental Site Assessment Update Report was prepared by SE Technologies.
- January 9, 2013, Phase I Environmental Site Assessment Report was prepared by GAI Consultants, Inc.
- February 17, 2016, Summary Report, Phase II ESA was prepared by American Geosciences, Inc.
- April 21, 2016, Summary of Initial Site Characterization Results Report was prepared by American Geosciences, Inc.
- July 18, 2016, Notice of Intent to Remediate (NIR) was submitted to PADEP by Civil & Environmental Consultants, Inc.
- January 6, 2017, Combined Remedial Investigation Report and Final Report submitted to PADER by Civil & Environmental Consultants, Inc.

Discussion of Cleanup Involved and Demonstration of Attainment:

Pathway elimination was used to demonstrate attainment of the Act 2 Site Specific Standard for the identified contaminants.

Based upon the current site conditions there was shown to be no current or probable pathways. No engineering controls are needed to demonstrate attainment; however, an Environmental Covenant (an institutional control) will be needed and include the following:

- Acknowledge the presence of groundwater impacts
- Restrict the site to non-residential uses
- Prohibit the use of groundwater for any purpose
- A schedule for reporting to PADEP the results of site assessments to demonstrate ongoing maintenance of the conditions in the EC

DEP Final Action Approval/Disapproval Letter:

Approval of the combined RIR and Final Report should be forth coming.

DEP Contact: John Kernic **Phone:** 412 442-5237

Site Contact: Phil Bishop **Phone:** 412 967-4661

Site Consultant: Jennifer Ewing **Phone:** 412 429-2324

bcc: K. Halloran
P. Vogel
J. Dewey
E. Elliott
J. Kernic
Region
CHRON



February 7, 2017

Phil Bishop, Vice President
35th Strouss Associates
701 Alpha Drive – 1st Floor
Pittsburgh, PA 15238

Re: Receipt of Remedial Investigation Report/ Final Report - Site-Specific Standard
35th Strouss Associates
eFACTS PF# 811468
eFACTS Activity # 49553
LRP # 5-2-132-19514
1810 Lincoln Highway
North Versailles Township, Allegheny County

Dear Mr. Bishop:

This letter acknowledges receipt of your Remedial Investigation/Final Report on February 6, 2017 pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The Notice of Intent to Remediate submitted previously and this final report indicate that you sought to remediate this site to meet the site-specific standard.

The Department of Environmental Protection (DEP) has 90 days from receipt of a submission to review the final report. You will receive a letter advising you of the DEP's action. If you have any questions or need further clarification of our procedures, please call John D. Kernic at 412.442.5237.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dewey".

Jeff Dewey
Supervisor – Act 2 Projects
Environmental Cleanup and Brownfields Program

cc: Civil & Environmental Consultants, Inc. - Jennifer A. Ewing, P.G. 333 Baldwin Road Pittsburgh, PA 15205
Allegheny County Conservation District - Jan Lauer District Manager Riverwalk Corporate Center 33 Terminal Way, Suite 325B Pittsburgh, PA 15219
North Versailles Township - Patricia Logo, Township Manager 1401 Greensburg Ave North Versailles, PA 15137

bcc: Regional File; Chron; K. Halloran; P. Vogel; J. Dewey; J. Kernic; E. Elliott



February 7, 2017

Phil Bishop, Vice President
35th Strouss Associates
701 Alpha Drive – 1st Floor
Pittsburgh, PA 15238

Re: Receipt of Remedial Investigation Report/ Final Report - Site-Specific Standard
35th Strouss Associates
eFACTS PF# 811468
eFACTS Activity # 49553
LRP # 5-2-132-19514
1810 Lincoln Highway
North Versailles Township, Allegheny County

Dear Mr. Bishop:

This letter acknowledges receipt of your Remedial Investigation/Final Report on February 6, 2017 pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The Notice of Intent to Remediate submitted previously and this final report indicate that you sought to remediate this site to meet the site-specific standard.

The Department of Environmental Protection (DEP) has 90 days from receipt of a submission to review the final report. You will receive a letter advising you of the DEP's action. If you have any questions or need further clarification of our procedures, please call John D. Kernic at 412.442.5237.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dewey".

Jeff Dewey
Supervisor – Act 2 Projects
Environmental Cleanup and Brownfields Program

cc: Civil & Environmental Consultants, Inc. - Jennifer A. Ewing, P.G.
Allegheny County Conservation District - Jan Lauer District Manager Riverwalk
North Versailles Township - Patricia Logo, Township Manager



Civil & Environmental Consultants, Inc.

ORIGINAL

January 24, 2017

Mr. Evan Elliott
PADEP - Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Dear Mr. Elliott:

Subject: Combined Remedial Investigation Report and Final Report
LRP ID 5-2-132-19514
35th Strouss Associates Property
1810 Lincoln Highway, North Versailles, Pennsylvania
CEC Project 160-962.0003

Civil & Environmental Consultants, Inc. (CEC), on behalf of 35th Strouss Associates presents this Combined Remedial Investigation Report (RIR)/Final Report for the site noted above. Please find enclosed two copies of the RIR for your use. Also enclosed are the following:

- PADEP Transmittal Sheet for Plan/Report Submission,
- PADEP Final Report Summary, and
- A check for \$750 for PADEP's review of the Combined RIR/Final Report.

North Versailles Township will be notified of this submittal and a notice will be published in the Pittsburgh Post-Gazette. Proof of these notifications will be submitted to PADEP upon receipt.

Rec'd
2/16/17
bed
ek

Please call if you have any questions.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Jennifer A. Ewing
Jennifer Ewing, P.G.
Project Manager

Mark Orzechowski
Mark Orzechowski, P.G.
Senior Project Manager

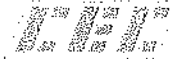
Enclosures

cc: Phil Bishop, 35th Strouss Associates

RECEIVED

JAN 26 2017

DEP, SOUTHWEST REGION
ENVIRONMENTAL CLEARING



Civil & Environmental Consultants, Inc.

January 24, 2017

Mr. Evan Elliott
PADEP - Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Dear Mr. Elliott:

Subject: Combined Remedial Investigation Report and Final Report
LRP ID 5-2-132-19514
35th Strouss Associates Property
1810 Lincoln Highway, North Versailles, Pennsylvania
CEC Project 160-962.0003

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- PADEP Transmittal Sheet for Plan/Report Submission,
- PADEP Final Report Summary, and

| Ent | Name | Acct No | Invoice | Date | P.O. Num | Reference | Amount | Discount | Net |
|---|-----------------|-----------|------------|----------|----------|-----------|-----------------|------------------|----------------------|
| 12012 | NORTH VERSAILLE | 70000-600 | REPORT FEE | 1/6/2017 | | 811468 | 750.00 | 0.00 | 750.00 |
| Payor: 35TH STROUSS ASSOCIATES Payee: COMMONWEALTH OF PENNSYLVANIA | | | | | | | Date: 1/10/2017 | Check No: 009174 | Check Amount: 750.00 |

RECEIVED
JAN 26 2017
DEP. SOUTHWEST REGION
ENVIRONMENTAL CLEANUP

Retain this statement for your records. THE FACE OF THIS DOCUMENT HAS MICROPRINTING. DO NOT CASH IF MISSING THE BACKGROUND. WILL EXPOSE A HIDDEN VOID WHEN PHOTOCOPIED.

VOID VOID VOID VOID

35TH STROUSS ASSOCIATES
701 ALPHA DRIVE
PITTSBURGH PA 15238
412-967-3609

PNC BANK, NA 001

8-9
430

Date: 1/10/2017 Check No: 009174 Check Amount: \$750.00

Seven Hundred Fifty AND 00/100 DOLLARS

Pay to the order of: COMMONWEALTH OF PENNSYLVANIA

PO BOX 2649
HARRISBURG, PA 17105-2649

VOID IF NOT CASHED WITHIN 90 DAYS WITHIN DATE OF ISSUE

January 24, 2017

Mr. Evan Elliott
PADEP - Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Dear Mr. Elliott:

Subject: Combined Remedial Investigation Report and Final Report
LRP ID 5-2-132-19514
35th Strouss Associates Property
1810 Lincoln Highway, North Versailles, Pennsylvania
CEC Project 160-962.0003

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- PADEP Transmittal Sheet for Plan/Report Submission,
- PADEP Final Report Summary, and
- A check for \$750 for PADEP's review of the Combined RIR/Final Report.

North Versailles Township will be notified of this submittal and a notice will be published in the Pittsburgh Post-Gazette. Proof of these notifications will be submitted to PADEP upon receipt.

Please call if you have any questions.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Jennifer Ewing, P.G.
Project Manager


Mark Orzechowski, P.G.
Senior Project Manager

Enclosures

cc: Phil Bishop, 35th Strouss Associates

RECEIVED

JAN 26 2017

DEP, SOUTHWEST REGION
ENVIRONMENTAL SERVICES



Civil & Environmental Consultants, Inc.

333 Baldwin Road
 Pittsburgh, Pennsylvania 15205
 (412) 429-2324 Toll Free (800) 365-2324
 FAX (412) 429-2114

RECEIVED
 FEB 03 2017
 via FedEx

LETTER OF TRANSMITTAL

| | | | |
|-----------|---|-------------|--------------|
| DATE | Feb-01-2017 | PROJECT NO. | 160-962.0003 |
| ATTENTION | Evan Elliott | | |
| RE: | Municipality and Public Notices | | |
| | 35 th Strouss Associates | | |
| | 1810 Lincoln Highway | | |
| | North Versailles, Pennsylvania 15137 | | |
| | North Versailles Twp., Allegheny County | | |

TO Mr. Evan Elliott
 PADEP, Southwest Regional Office
 Environmental Cleanup & Brownfields
 400 Waterfront Drive
 Pittsburgh, PA 15222

WE ARE SENDING YOU ATTACHED SEPARATE COVER VIA Fed Ex 2-Day THE FOLLOWING ITEMS:

SHOP DRAWINGS PRINTS PLANS SAMPLES SPECIFICATIONS

COPY OF LETTER CHANGE ORDER

| COPIES | DATE | NO. | DESCRIPTION |
|--------|--|-----|--|
| 1 | Sent Jan-24-2017; Received Jan-26-2017 | - | Municipal Notification Letter and Certified Mail Receipt |
| 1 | Published Jan-25-2017 | - | Public Notice Proof of Newspaper Publication |
| | | | |
| | | | |

WE ARE SENDING YOU FOR APPROVAL APPROVAL AS SUBMITTED RESUBMIT _____ COPIES FOR APPROVAL

FOR YOUR USE APPROVED AS NOTED SUBMIT _____ COPIES FOR DISTRIBUTION

AS REQUESTED RETURNED FOR CORRECTIONS RETURN _____ PRINTS

FOR REVIEW AND COMMENT

FOR BIDS DUE : PRINTS RETURNED AFTER LOAN TO US

REMARKS The enclosed documents are being provided on behalf of 35th Strouss Associates in conjunction with the Combined Remedial Investigation Report and Final Report for the above-referenced site that was submitted to your attention on January 24, 2017.

COPY TO Phil Bishop, P.E., 35th Strouss Associates
 (via email)

SIGNED 
 Jennifer A. Ewing, P.G.



Civil & Environmental Consultants, Inc.

January 24, 2017

CERTIFIED MAIL No. 7016 2140 0000 4144 6493

Ms. Patricia Logo
Township Manager
North Versailles Township
1401 Greensburg Avenue
North Versailles, PA 15137

Dear Ms. Logo:

Subject: Municipal Notification
1810 Lincoln Highway
North Versailles, Pennsylvania 15137
North Versailles Township, Allegheny County
CEC Project 160-962.0003

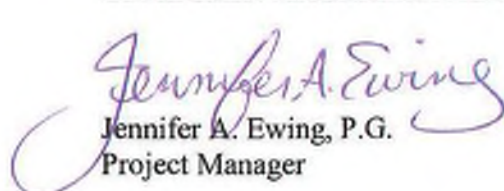
Notice is hereby given that 35th Strouss Associates has submitted a Combined Remedial Investigation Report and Final Report to the Department of Environmental Protection for the site noted above. The Combined Remedial Investigation Report and Final Report indicates that the remediation performed has attained compliance with the site-specific cleanup standard.

This notice is made under the provision of the Land Recycling and Environmental Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

Please call us at 412-429-2324 if you have questions or comments regarding this notification.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Jennifer A. Ewing, P.G.
Project Manager


Mary J. Guinee
Vice President

Enclosure

cc: Phil Bishop, P.E., 35th Strouss Associates (via email)

160-962.0003-L-RIR/FR-12.27.16/P

7016 2140 0000 4144 6493

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

| | |
|--|---|
| Certified Mail Fee \$ | J EWING 160-87-0003 01/24/2016 |
| Extra Services & Fees (attach box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) \$ | |
| <input type="checkbox"/> Return Receipt (electronic) \$ | |
| <input type="checkbox"/> Certified Mail Restricted Delivery \$ | |
| <input type="checkbox"/> Adult Signature Required \$ | |
| <input type="checkbox"/> Adult Signature Restricted Delivery \$ | |
| Postage \$ | |
| Total Postage and Fees \$ 6.56 | |
| MS PATRICIA LOGO NORTH VERSAILLES TOWNSHIP 1401 GREENSBURG AVENUE NORTH VERSAILLES PA 15137 | |

PS Form 3800, April 2015 PSN 7530-02-030-9047 See Reverse for Instructions

| SENDER: COMPLETE THIS SECTION | | COMPLETE THIS SECTION ON DELIVERY | | | | | | | | | | | | | |
|--|---|---|--|--|---|--|---|--|--|---|---|--|--|--|---|
| <ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. | | <p>A. Signature x <i>Bridget Bueger</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery 1-26-17</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> | | | | | | | | | | | | | |
| <p>1. Article Addressed to:</p> <p>MS PATRICIA LOGO NORTH VERSAILLES TOWNSHIP 1401 GREENSBURG AVENUE NORTH VERSAILLES PA 15137</p> | | <p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table> | | <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® | <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ | <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery | <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ | <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® | | | | | | | | | | | | | | |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ | | | | | | | | | | | | | | |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery | | | | | | | | | | | | | | |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise | | | | | | | | | | | | | | |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ | | | | | | | | | | | | | | |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery | | | | | | | | | | | | | | |
| <p>2. Article Number (Transfer from service label)</p> <p>9590 9402 2291 6225 3873 17</p> | | <p>PS Form 3811, July 2015 PSN 7630-02-000-9053</p> <p>Domestic Return Receipt</p> | | | | | | | | | | | | | |

Proof of Publication of Notice in Pittsburgh Post-Gazette

Under Act No 587, Approved May 16, 1929, PL 1784, as last amended by Act No 409 of September 29, 1951

Commonwealth of Pennsylvania, County of Allegheny, ss P. Reed, being duly sworn, deposes and says that the Pittsburgh Post-Gazette, a newspaper of general circulation published in the City of Pittsburgh, County and Commonwealth aforesaid, was established in 1993 by the merging of the Pittsburgh Post-Gazette and Sun-Telegraph and The Pittsburgh Press and the Pittsburgh Post-Gazette and Sun-Telegraph was established in 1960 and the Pittsburgh Post-Gazette was established in 1927 by the merging of the Pittsburgh Gazette established in 1786 and the Pittsburgh Post, established in 1842, since which date the said Pittsburgh Post-Gazette has been regularly issued in said County and that a copy of said printed notice or publication is attached hereto exactly as the same was printed and published in the regular editions and issues of the said Pittsburgh Post-Gazette a newspaper of general circulation on the following dates, viz:

25 of January, 2017

Affiant further deposes that he/she is an agent for the PG Publishing Company, a corporation and publisher of the Pittsburgh Post-Gazette, that, as such agent, affiant is duly authorized to verify the foregoing statement under oath, that affiant is not interested in the subject matter of the afore said notice or publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.

P. Reed

PG Publishing Company

Sworn to and subscribed before me this day of:
January 25, 2017

Linda M. Gaertner

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Linda M. Gaertner, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Jan. 31, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

STATEMENT OF ADVERTISING COSTS
CIVIL & ENVIRONMENTAL CONSULT
333 BALDWIN ROAD
ATTN: MARY A. KING
PITTSBURGH PA 15205-9702

To PG Publishing Company

Total ----- \$202.95

Publisher's Receipt for Advertising Costs

PG PUBLISHING COMPANY, publisher of the Pittsburgh Post-Gazette, a newspaper of general circulation, hereby acknowledges receipt of the aforesaid advertising and publication costs and certifies that the same have been fully paid.

Office
2201 Sweeney Drive
CLINTON, PA 15026
Phone 412-263-1338

PG Publishing Company, a Corporation, Publisher of
Pittsburgh Post-Gazette, a Newspaper of General Circulation

By _____

I hereby certify that the foregoing is the original Proof of Publication and receipt for the Advertising costs in the subject matter of said notice.

COPY OF NOTICE OR PUBLICATION

NOTICE is hereby given that 35th Strauss Associates has submitted a Combined Remedial Investigation Report and Final Report to the Pennsylvania Department of Environmental Protection, Southwest Regional Office, to demonstrate attainment of the site-specific standard for a site located at 1810 Lincoln Highway in North Versailles (North Versailles Township), Allegheny County, PA 15137. 35th Strauss Associates has indicated that the remediation measures taken have attained compliance with the site-specific cleanup standard established under the Land Recycling and Environmental Remediation Standards Act. This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #2, No. 2.



Civil & Environmental Consultants, Inc.

333 Baldwin Road

Pittsburgh, Pennsylvania 15205

(412) 429-2324 Toll Free (800) 365-2324

FAX (412) 429-2114

LETTER OF TRANSMITTAL

| | | | |
|-----------|---|-------------|--------------|
| DATE | Feb-01-2017 | PROJECT NO. | 160-962.0003 |
| ATTENTION | Evan Elliott | | |
| RE: | Municipality and Public Notices | | |
| | 35 th Strouss Associates | | |
| | 1810 Lincoln Highway | | |
| | North Versailles, Pennsylvania 15137 | | |
| | North Versailles Twp., Allegheny County | | |
| | | | |
| | | | |

TO Mr. Evan Elliott
 PADEP, Southwest Regional Office
 Environmental Cleanup & Brownfields
 400 Waterfront Drive
 Pittsburgh, PA 15222

WE ARE SENDING YOU ATTACHED SEPARATE COVER VIA Fed Ex 2-Day THE FOLLOWING ITEMS:

SHOP DRAWINGS PRINTS PLANS SAMPLES SPECIFICATIONS

COPY OF LETTER CHANGE ORDER

| COPIES | DATE | NO. | DESCRIPTION |
|--------|--|-----|--|
| 1 | Sent Jan-24-2017; Received Jan-26-2017 | - | Municipal Notification Letter and Certified Mail Receipt |
| 1 | Published Jan-25-2017 | - | Public Notice Proof of Newspaper Publication |
| | | | |
| | | | |

WE ARE SENDING YOU FOR APPROVAL APPROVAL AS SUBMITTED RESUBMIT _____ COPIES FOR APPROVAL

FOR YOUR USE APPROVED AS NOTED SUBMIT _____ COPIES FOR DISTRIBUTION

AS REQUESTED RETURNED FOR CORRECTIONS RETURN _____ PRINTS

FOR REVIEW AND COMMENT

FOR BIDS DUE: PRINTS RETURNED AFTER LOAN TO US

REMARKS The enclosed documents are being provided on behalf of 35th Strouss Associates in conjunction with the Combined Remedial Investigation Report and Final Report for the above-referenced site that was submitted to your attention on January 24, 2017.

COPY TO Phil Bishop, P.E., 35th Strouss Associates
 (via email)

SIGNED *Jennifer A. Ewing*
 Jennifer A. Ewing, P.G.



Civil & Environmental Consultants, Inc.

January 24, 2017

CERTIFIED MAIL No. 7016 2140 0000 4144 6493

Ms. Patricia Logo
Township Manager
North Versailles Township
1401 Greensburg Avenue
North Versailles, PA 15137

Dear Ms. Logo:

Subject: Municipal Notification
1810 Lincoln Highway
North Versailles, Pennsylvania 15137
North Versailles Township, Allegheny County
CEC Project 160-962.0003

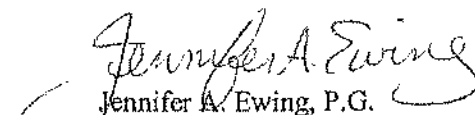
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This notice is made under the provision of the Land Recycling and Environmental Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

Please call us at 412-429-2324 if you have questions or comments regarding this notification.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Jennifer A. Ewing, P.G.
Project Manager


Mary J. Guinee
Vice President

Enclosure

cc: Phil Bishop, P.E., 35th Strouss Associates (via email)

160-962.0003-L-RIR/FR-12.27.16/P

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$
 Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
 Total Postage and Fees \$ **6.56**

MS PATRICIA LOGO
 NORTH VERSAILLES TOWNSHIP
 1401 GREENSBURG AVENUE
 NORTH VERSAILLES PA 15137

PS Form 3800, April 2015 PSN 7530-00-000-1017 See Reverse for instructions

7016 2140 0000 4144 6493

J EWING
 160-602-0003
 01/24/2016

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 MS PATRICIA LOGO
 NORTH VERSAILLES TOWNSHIP
 1401 GREENSBURG AVENUE
 NORTH VERSAILLES PA 15137

2. Article Number (transfer from service label)
 7016 2140 0000 4144 6493

PS Form 3811, July 2015 PSN 7530-02-000-9063

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 x *Patricia Logo* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 1-26-17

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

No. _____ Term, _____

Proof of Publication of Notice in Pittsburgh Post-Gazette

Under Act No 587, Approved May 16, 1929, PL 1784, as last amended by Act No 409 of September 29, 1951

Commonwealth of Pennsylvania, County of Allegheny, ss P. Reed, being duly sworn, deposes and says that the Pittsburgh Post-Gazette, a newspaper of general circulation published in the City of Pittsburgh, County and Commonwealth aforesaid, was established in 1993 by the merging of the Pittsburgh Post-Gazette and Sun-Telegraph and The Pittsburgh Press and the Pittsburgh Post-Gazette and Sun-Telegraph was established in 1960 and the Pittsburgh Post-Gazette was established in 1927 by the merging of the Pittsburgh Gazette established in 1786 and the Pittsburgh Post, established in 1842, since which date the said Pittsburgh Post-Gazette has been regularly issued in said County and that a copy of said printed notice or publication is attached hereto exactly as the same was printed and published in the regular editions and issues of the said Pittsburgh Post-Gazette a newspaper of general circulation on the following dates, viz:

25 of January, 2017

Affiant further deposes that he/she is an agent for the PG Publishing Company, a corporation and publisher of the Pittsburgh Post-Gazette, that, as such agent, affiant is duly authorized to verify the foregoing statement under oath, that affiant is not interested in the subject matter of the afore said notice or publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.

P. Reed
PG Publishing Company
Sworn to and subscribed before me this day of:
January 25, 2017

Linda M. Gaertner
COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Linda M. Gaertner, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Jan. 31, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

STATEMENT OF ADVERTISING COSTS
CIVIL & ENVIRONMENTAL CONSULT
333 BALDWIN ROAD
ATTN: MARY A. KING
PITTSBURGH PA 15205-9702

To PG Publishing Company

Total \$202.95

Publisher's Receipt for Advertising Costs

PG PUBLISHING COMPANY, publisher of the Pittsburgh Post-Gazette, a newspaper of general circulation, hereby acknowledges receipt of the aforesaid advertising and publication costs and certifies that the same have been fully paid.

Office
2201 Sweeney Drive
CLINTON, PA 15026
Phone 412-263-1338

PG Publishing Company, a Corporation, Publisher of
Pittsburgh Post-Gazette, a Newspaper of General Circulation
By _____

I hereby certify that the foregoing is the original Proof of Publication and receipt for the Advertising costs in the subject matter of said notice.

**COPY OF NOTICE
OR PUBLICATION**

NOTICE is hereby given that 35th Streets Associates has submitted a Combined Remedial Investigation Report and Final Report to the Pennsylvania Department of Environmental Protection, Southwest Regional Office, to demonstrate attainment of the site-specific standard for a site located at 1310 Lincoln Highway in North Versailles (North Versailles Township, Allegheny County, PA 15137. 35th Streets Associates has indicated that the remediation measures taken have attained compliance with the site-specific cleanup standard established under the Land Recycling and Environmental Remediation Standards Act. This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 44, No. 2.

RECEIVED

JAN 26 2017

DEP, SOUTHWEST REGION
ENVIRONMENTAL CLEANUP

Land Recycling Program
Transmittal Sheet for Plan/Report Submission

Instructions: Please provide all requested information in each of the four sections. This transmittal sheet shall accompany any plan/report submitted to the Department under the Land Recycling Program. Proper completion of the Transmittal Sheet will assist Department review and may avoid a finding of plan/report deficiency. The Facility ID number can be obtained from the Department's Environmental Cleanup Program in the region where the site is located.

Section 1 - Site Identification

eFACTS Facility ID 811468

Site Name 35th Strouss Associates

Site Address 1810 Lincoln Highway, North Versailles, PA 15137

Municipality and County North Versailles Township, Allegheny County

Section 2 - Remediation Standard . . Plan/Report . . Fees

Identify the remediation standard being pursued and the type of plan/report being submitted. Please note required Department fees follow each type of plan/report.

Check the relevant standard and the type of plan/report being submitted.

- | | |
|--|--|
| <input type="checkbox"/> Background Standard Final Report (\$250 fee) | <input type="checkbox"/> Statewide Health Standard Final Report (\$250 fee) |
| <input checked="" type="checkbox"/> Site-Specific Standard | <input type="checkbox"/> Special Industrial Area |
| <input checked="" type="checkbox"/> Remedial Investigation Report (\$250 fee) | <input type="checkbox"/> Work Plan (no fee) |
| <input type="checkbox"/> Risk Assessment Report (\$250 fee) | <input type="checkbox"/> Baseline Environmental Report (no fee) |
| <input type="checkbox"/> Cleanup Plan (\$250 fee) | |
| <input checked="" type="checkbox"/> Final Report (\$500 fee) | |

Ensure your check covers all required fees and is made payable to the **Commonwealth of Pennsylvania**.

Section 3 - Municipal/Public Notice Confirmation

There are two stages in the Land Recycling Program where municipal and public notices are required. Read the information associated with each stage. You will be asked to confirm that information establishing your compliance with these notification requirements has been included with this submission.

- Check here if you are planning to meet the Background or Statewide Health Standard and your Final Report has been submitted within 90 days of the release.

Indicate date of release here _____

No further completion of this section is required if your Final Report for these two standards conforms to the 90 day time frame.

Stage 1 - Notice of Intent to Remediate (NIR)

- Check here to confirm you have included proof that a copy of your NIR was provided to each municipality where your site is located. Proof will be a copy of your cover letter and a copy of a signed certified mail receipt slip from the municipality.
- Check here to confirm a copy of a proof of publication document from a newspaper serving the area of your site has been included with this submission.
- Check here to indicate that a Site-Specific Standard or a Special Industrial Area is involved and a municipal request was received for development of a public involvement plan. The plan/report submission shall include municipality and public comments, which were submitted, and your responses to those comments.

Stage 2 - Cleanup Plan/Report Submission

_____ Place date here that each municipality was notified of any plan or report submitted under any of the three remediation standards.

_____ Place the newspaper name and date that your notice of your plan/report submission was published.

Section 4 - Project Contact

On the lines below, place the name, company, mailing addresses and business phone number of the individuals who can be contacted regarding this submission:

| |
|---|
| Consultant Contact Person/Title: <u>Jennifer A. Ewing / Project Manager</u> Phone Number <u>412-429-2324</u> Email Address <u>jewing@cecinc.com</u> Company Name: <u>Civil & Environmental Consultants, Inc.</u> Mailing Address (street, city, state, zip) <u>333 Baldwin Road, Pittsburgh, PA 15205</u> |
| Remediator Contact Person/Title: <u>Phil Bishop / Vice President</u> Phone Number <u>412-967-4661</u> Email Address <u>PBishop@echorealty.com</u> Company Name: <u>35th Strouss Associates</u> Mailing Address (street, city, state, zip) <u>701 Alpha Drive, 1st Floor, Pittsburgh, PA 15238-2820</u> |
| Other Contact Person/Title: _____ Relationship to Site _____ (e.g. owner, participant in cleanup, responsible party, etc.) Phone Number _____ Email Address _____ Company Name: _____ Mailing Address (street, city, state, zip) _____ |

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PF # _____

Rem ID # _____

FINAL REPORT SUMMARY

The Final Report Summary (FRS) is a brief report consisting of set of data required in addition to the Act 2 Final Report. The summary is used in part as a reference to the Final Report Approval Letter which conveys liability relief to the remediator and other applicable persons. It is of value long after the remediation to be used by the public and Department in understanding key information about the site and remediation.

This use is increased by the fact that it will ultimately be merged into the Department's eFACTS system, which allows the public to have the ease of computer access to environmental information at sites. For more information, see www.ahs.dep.pa.gov/eFACTSWeb/default.aspx. Finally, the summary will be used by the Department to help to better assess the status and the level of success of the program. In the past, numbers of sites remediated has been tracked. With the inclusion of this summary information, progress can be tracked in many specific ways, including identification of individual chemical constituents, and the mass treated, removed or managed safely in place.

Identification

Property Name 35th Strouss AssociatesProperty Descriptor 1810 Lincoln Highway

Address / Location

Address 1810 Lincoln HighwayCity North VersaillesZip Code 15137Municipality(s) North Versailles TownshipCounty(ies) AlleghenyLatitude 40 ° (deg). 22 ' (min) 5.8 " (sec) Longitude -79 ° (deg). 46 ' (min) 55.3 " (sec)Horizontal Collection Method Google Earth ProHorizontal Reference Datum _____ Reference Point approximate center of site

Property Specifics

Size of Property 4.18Number of Sites 1Combined acreage of sites 4.18

Remediation

Standards attained or special industrial area attainment. (Check all that apply. Can use multiple.)

 Background
 Statewide Health
 Site-Specific
 Special Industrial Area

Proposed future property use - scenario for which the attainment of Statewide Health standard is demonstrated

 Residential
 Non-residential

List of contaminants

Soils

| Chemical Name | CAS Number | Mass Contaminant Treated or Removed (lbs.) | Mass Contaminant Managed on Site (lbs.) |
|---------------|------------|--|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Groundwater

| Chemical Name | CAS Number | Mass Contaminant Treated or Removed (lbs.) | Mass Contaminant Managed on Site (lbs.) |
|--------------------------------|------------|--|---|
| 1,1-Dichloroethylene (1,1-DCE) | 75-35-4 | 0 | |
| Cadmium | 7440-43-9 | 0 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Remediation

Number of sampling rounds for groundwater attainment: 0

Special Features

Non-use aquifer approval date: not applicable

Area-wide background approval date: not applicable

Amount of waste removed other than soil or groundwater (cubic yards): not applicable

Municipal ordinance prohibiting groundwater use:

not applicable

Post remediation care plan:

The proposed Post-Remediation Care Plan for the Site consists of the following:

(1) A Uniform Environmental Covenant (UEC): The UEC will acknowledge the presence of groundwater impacts; restrict the Site to non-residential use; prohibit the use of groundwater for any purpose; and include a schedule for reporting to PADEP the results of Site assessments to demonstrate ongoing maintenance of the conditions in the UEC.

(2) Monitoring well abandonment: The four monitoring wells will be formally abandoned upon receipt of written approval from PADEP that groundwater monitoring can be ceased, and documentation of the well abandonment will be provided to PADEP.

Other Programs

- Key Site
- Multi-site Agreement; Date: _____
- Enterprise Zone
- Keystone Opportunity Zone

Administrative

- Municipality request for public involvement plan

Deed notification

- Deed acknowledgment:

not applicable

- Environmental covenant:

A Uniform Environmental Covenant (UEC) will acknowledge the presence of groundwater impacts; restrict the Site to non-residential use; prohibit the use of groundwater for any purpose; and include a schedule for reporting to PADEP the results of Site assessments to demonstrate ongoing maintenance of the conditions in the UEC.

Cleanup cost (\$): 0

Jobs created/saved: to be determined

Narrative: Provide property history and description, site characterization findings, site description, summary of remediation, summary of attainment demonstration, description of pathway elimination, engineering and institutional controls, and benefits of land reuse, when applicable.

The Site was originally developed and used as an electrical brush manufacturing facility (TransTech, Inc.) from 1956 through 1989. The Site was later used as a prescription drug distribution center (Flex Rx, Inc.) from 1989 to 2008 and a call center from 2008 to 2014. The Site has been unoccupied/unused since 2014.

35th Strouss Associates has owned the Site since 2014. A two-story building (approximately 50,000 square feet total) and three asphalt parking lots are currently situated onsite.

The Site is believed to have been impacted by historic industrial use of the Site by an electrical brush manufacturer whose operations included cleaning/degreasing/pressure washing activities.

The environmental investigations conducted identified the presence of cadmium and 1,1-Dichloroethene (1,1-DCE) in groundwater at concentrations greater than the Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs). None of the other tested parameters in groundwater (Target Compound List volatile organic compounds

[TCL-VOCs] or RCRA metals) were detected at concentrations greater than the non-residential Act 2 MSCs.

The tested parameters in soil (TCL-VOCs, polycyclic aromatic hydrocarbons [PAHs], or RCRA metals) were not detected at concentrations greater than the non-residential Act 2 direct contact or soil-to-groundwater MSCs.

Pathway elimination was used to demonstrate attainment of the Act 2 Site-Specific Standard (SSS) for the identified contaminants.

No engineering controls are needed to demonstrate attainment; however, a UEC (an institutional control) will be recorded with the County to acknowledge the presence of groundwater impacts; restrict the Site to non-residential use; prohibit the use of groundwater for any purpose; and present a schedule for reporting to PADEP the results of Site assessments to demonstrate ongoing maintenance of the conditions in the UEC.

The current and planned future use of the Site is non-residential.

Remediator / Property Owner / Consultant. Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Remediator

Contact Person/Title Phil Bishop / Vice President eFACTS Client ID* not available
 Relationship to Site Owner Client Type* Limited Partnership
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number 412-967-4661 Email Address PBishop@echorealty.com
 Company Name 35th Strouss Associates EIN or Federal ID # _____
 Street Address 701 Alpha Drive, 1st Floor
 City Pittsburgh State PA Zip Code 15238-2820

Property Owner

Contact Person/Title Phil Bishop / Vice President eFACTS Client ID* not applicable
 Relationship to Site Owner Client Type* Limited Partnership
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number 412-967-4661 Email Address PBishop@echorealty.com
 Company Name 35th Strouss Associates EIN or Federal ID # _____
 Street Address 701 Alpha Drive, 1st Floor
 City Pittsburgh State PA Zip Code 15238-2820

Consultant

Contact Person/Title Jennifer A. Ewing eFACTS Client ID* not applicable
 Relationship to Site Consultant Client Type* _____
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number 412-429-2324 Email Address jewing@cecinc.com
 Company Name Civil & Environmental Consultants, Inc. EIN or Federal ID # _____
 Street Address 333 Baldwin Road
 City Pittsburgh State PA Zip Code 15205

*Include eFACTS Client ID (if known) – "Client Types" below:

| | | |
|--------------------------|-------------------------------|---------------------|
| Association/Organization | Limited Liability Company | Partnership-General |
| Authority | Limited Liability Partnership | Partnership-Limited |
| County | Municipality | School District |
| Estate/Trust | Non-Pennsylvania Government | Sole Proprietorship |
| Federal Agency | Other (Non-Government) | State Agency |
| Individual | Pennsylvania Corporation | |





Attachments: In addition to the data entered in this FRS, the Department requests scanned image(s) of a map view of the site indicating, at a minimum, the boundaries of the "site" relative to the locations of the adjacent property boundaries. The location of the site (as defined by Act 2) is that which will receive the liability relief conveyed by Act 2, Chapter 5. The maps may portray other features but should clearly show the Act 2 site boundaries. You may also attach other applicable image files or attachments. These files should be in Adobe Acrobat (*.pdf), GIF (*.gif) or JPEG file interchange format (*.jpg).



Document Path: \\asvr-pittsburgh\projects\2016\160-962\GIS\Mapset\REPORT\2016\2016160962_FIG2_SITE_LAYOUT_SAMPLE_LOCS.mxd



LEGEND

-  SOIL BORING
-  VAPOR POINT
-  MONITORING WELL LOCATION
-  APPROXIMATE PROPERTY BOUNDARY

INTERMEDIATE CONTOUR - 2 FT. INTERVAL

INDEX CONTOUR - 10 FT. INTERVAL

REFERENCE

ALLEGHENY COUNTY DIGITAL PARCEL DATA
PUBLICATION DATE: MAY, 2016

PAMAP PROGRAM LIDAR DATA, 2' INTERVAL, 2006

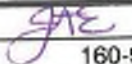
ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY,
ACCESSED 12/13/2016, IMAGERY DATE: 2016.



Civil & Environmental Consultants, Inc.
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412-429-2324 • 800-365-2324
www.cecinc.com

35TH STROUSS ASSOCIATES
1810 LINCOLN HIGHWAY
NORTH VERSAILLES TOWNSHIP, ALLEGHENY CO.

SITE LAYOUT AND SAMPLE LOCATIONS

| | | | |
|------------------|-----------------|--|--------------|
| DRAWN BY: CBL | CHECKED BY: MLO | APPROVED BY:  | FIGURE NO: 2 |
| DATE: 12/13/2016 | SCALE: 1" = 80' | PROJECT NO: 160-962 | |

Ewing, Jennifer

From: Ewing, Jennifer
Sent: Tuesday, January 24, 2017 1:01 PM
To: 'landrecycling@pa.gov'; 'fnemec@pa.gov'; 'Elliott, Evan'
Subject: FRS - 35th Strouss Associates, 1810 Lincoln Highway, North Versailles, PA (CEC Project No. 160-962.0003)
Attachments: 160-962.0003-FR Summary Form 2610-FM-BECB0011 (1810 Lincoln Hwy).docx;
160-962.0003-FR Summary Form 2610-FM-BECB0011 (1810 Lincoln Hwy).pdf

Hello Frank and Evan,

I attached a Final Report Summary form for the above-referenced site. Please contact me with any questions and to confirm receipt of this email. Hard copies of the report are being sent to PADEP's SWRO today via FedEx.

Best Regards,
Jennifer

Jennifer A. Ewing, P.G. / Project Manager
Civil & Environmental Consultants, Inc.
333 Baldwin Road · Pittsburgh, PA 15205-1751
Toll-Free: 800-365-2324 · Direct: 412-249-3173 · Fax: 412-429-2114
Email: jewing@cecinc.com Mobile: 412-215-1289 · <http://www.cecinc.com>
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5-2-132-19514
Pf # 811468
Act Id 49553

**REMEDIAL INVESTIGATION REPORT
AND
FINAL REPORT**

**1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA
NORTH VERSAILLES TOWNSHIP, ALLEGHENY COUNTY**

LRP ID 5-2-132-19514

Prepared for:

**35TH STROUSS ASSOCIATES
PITTSBURGH, PENNSYLVANIA**

Prepared by:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
PITTSBURGH, PENNSYLVANIA**

CEC Project 160-962.0003

January 24, 2107



Civil & Environmental Consultants, Inc.

5-2-132-19514
PF# 811468
Act Id 49553

**REMEDIAL INVESTIGATION REPORT
AND
FINAL REPORT**

**1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA
NORTH VERSAILLES TOWNSHIP, ALLEGHENY COUNTY**

LRP ID 5-2-132-19514

Prepared for:

**35TH STROUSS ASSOCIATES
PITTSBURGH, PENNSYLVANIA**

Prepared by:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
PITTSBURGH, PENNSYLVANIA**

CEC Project 160-962.0003

January 24, 2107

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Civil & Environmental Consultants, Inc.

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EXECUTIVE SUMMARY

This Combined Remedial Investigation Report (RIR)/Final Report documents the site characterization activities at 1810 Lincoln Highway, North Versailles (North Versailles Township), Allegheny County, Pennsylvania (Site). The site characterization was performed in accordance with the Pennsylvania Land Recycling and Environmental Remediation Standards Act. A Notice of Intent to Remediate the Site was submitted to the Pennsylvania Department of Environmental Protection (PADEP) on July 7, 2016. Municipal and public notifications of the NIR submittal were provided to the PADEP on July 15, 2016.

This report was prepared by Civil & Environmental Consultants, Inc. (CEC) on behalf of the 35th Strouss Associates and in general accordance with the RIR and Final Report requirements pertaining to the use of the Site-Specific Standard (SSS) for groundwater specified in the Land Recycling Program Technical Guidance Manual (TGM).

1,1-Dichloroethylene (1,1-DCE) was detected in subsurface soil from the Site at concentrations that exceed the draft soil vapor screening value for non-residential soil. Cadmium and 1,1-DCE were detected in groundwater from the Site at concentrations that exceed non-residential, used aquifer groundwater Medium Specific Concentrations (MSCs).

No current or probable exposure pathways have been documented at the Site. Therefore, the Site does not require a Cleanup Plan or Risk Assessment. This report includes a proposed Post-Remediation Care Plan to satisfy the requirements of a Combined RIR/Final Report.

The proposed Post-Remediation Care Plan for the Site consists of the following:

- Uniform Environmental Covenant (UEC):
 - Acknowledge the presence of groundwater impacts;
 - Restrict the Site to non-residential use;
 - Prohibit the use of groundwater for any purpose; and
 - A schedule for reporting to PADEP the results of Site assessments to demonstrate ongoing maintenance of the conditions in the UEC.

- Monitoring well abandonment: Upon receipt of written approval from PADEP that groundwater monitoring can be ceased, the four monitoring wells will be formally abandoned. Documentation of well abandonment will be provided to PADEP.

1.0 INTRODUCTION

This Combined Remedial Investigation Report (RIR)/Final Report documents the site characterization activities at 1810 Lincoln Highway, North Versailles (North Versailles Township), Allegheny County, Pennsylvania (Site). The Site is composed of two parcels totaling ±4.18 acres. The parcels are identified by Allegheny County tax assessor's office as 750-J-263 and 750-J-253. The site characterization activities were performed in accordance with the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2).

Environmental investigations were conducted in 2016 on a voluntary basis and a Notice of Intent to Remediate (NIR) the Site was submitted to the Pennsylvania Department of Environmental Protection (PADEP) on July 7, 2016. Municipal and public notifications of the NIR submittal were provided to the PADEP on July 15, 2016. The PADEP correspondence and notification letters are provided in Appendix A.

This report was prepared by Civil & Environmental Consultants, Inc. (CEC) on behalf of the 35th Strouss Associates and in general accordance with the RIR and Final Report requirements pertaining to the use of the Site-Specific Standard (SSS) for groundwater specified in the Land Recycling Program Technical Guidance Manual (TGM) (PADEP, 2002).

The Site was originally developed and used as an electrical brush manufacturing facility (TransTech, Inc.) from 1956 through 1989. The Site was later used as a prescription drug distribution center (Flex Rx, Inc.) from 1989 to 2008 and a call center from 2008 to 2014. The Site has been unoccupied/unused since 2014. 35th Strouss Associates has owned the Site since 2014. A two-story building (approximately 50,000 square feet total) and three asphalt parking lots are currently situated onsite.

Stormwater runoff drains to Jacks Run, which is located approximately 400 feet to the south of the Site. The facility is connected to public water and sanitary sewage disposal is discharged to a publicly-owned sewage system.

American Geosciences, Inc. (AGI) conducted Phase I and II Environmental Site Assessments (ESAs) of the Site on behalf of a potential buyer. The Phase I and II ESA reports were completed in February 2016. AGI conducted additional assessment activities that were documented in their report issued in April 2016. On May 11, 2016, 35th Strouss Associates and CEC met with the PADEP to review the initial site characterization performed by AGI. As a result of the meeting, the PADEP requested additional site characterization. The site characterization activities performed by AGI and CEC are described below. The results of the investigations are discussed in Section 4.0.

2.0 SITE DESCRIPTION

The Site is located at 1810 Lincoln Highway, North Versailles (North Versailles Township), Allegheny County, Pennsylvania (Figure 1). The Site is composed of two parcels totaling ±4.18 acres. The parcels are identified by Allegheny County tax assessor's office as 750-J-263 and 750-J-253.

The Site was originally developed and used as an electrical brush manufacturing facility (TransTech, Inc.) from 1956 through 1989. The Site was later used as a prescription drug distribution center (Flex Rx, Inc.) from 1989 to 2008 and a call center from 2008 to 2014. The Site has been vacant since 2014. 35th Strouss Associates has owned the Site since 2014. The Site is currently occupied by a two-story building (approximately 50,000 square feet total) and three asphalt parking lots. The Site slopes gently to the southeast.

Stormwater runoff drains to Jacks Run, which is located approximately 400 feet to the south of the Site. The facility is connected to public water and sanitary sewage disposal is discharged to a publicly-owned sewage system.

The Site is bounded by properties currently occupied by:

- D&D Office Plus, Maroadi Transfer & Storage, Monro Muffler Brake, and Ferguson Plumbing to the north and across Lincoln Highway,
- An office building and residential properties to the south,
- A Marathon gasoline station and King's Family Restaurant to the east, and
- Residential properties to the west across Hoffman Road.

3.0 SITE CHARACTERIZATION

AGI conducted Phase I and II ESAs of the Site on behalf of a potential buyer. The Phase I and II ESA reports were completed in February 2016. AGI conducted additional assessment activities that were documented in their report issued in April 2016. On May 11, 2016, 35th Strouss Associates and CEC met with the PADEP to review the initial site characterization performed by AGI. As a result of the meeting, the PADEP requested additional site characterization including identification of potential springs, evaluation of public potable water supplies, and an additional round of groundwater sampling. The site characterization performed by AGI and CEC are described below.

3.1 PRIOR REPORT REVIEW

The following is a summary of the major findings and conclusions from previous environmental reports provided to CEC:

Schneider Engineers - Environmental Assessment Report; November 1988: This report documents an ESA conducted at the Site when it was occupied by TransTech, Inc. Operations that occurred at the Site included: spray painting, steam cleaning/degreasing, soldering, welding, sanding, and epoxy coating. A 2,000-gallon steel underground storage tank (UST) was used for acetone storage from 1980 until it was removed in 1986. With the exception of chloroform, surface and subsurface soil samples in the area of the former acetone UST did not contain reportable concentrations of volatile organic compounds (VOCs). The chloroform concentrations were comparable to a sample of background soil collected as part of the assessment. Schneider Engineers concluded that "the environmental and public health risks and liabilities associated with the TransTech, Inc. site are minimal."

SE Technologies, Inc. -- Phase I Environmental Site Assessment Update Report; November 1992: This report documents a Phase I ESA update of the Site when it was occupied by Flex Rx, Inc. and used as a pharmaceutical warehouse. No additional environmental samples were collected or analyzed as part of this assessment.

GAI Consultants, Inc. – Phase I Environmental Site Assessment Report; January 9, 2013: This report documents a Phase I ESA of the Site when it was being used as commercial office space. The Phase I ESA revealed no evidence of Recognized Environmental Conditions (RECs) at the Site. RECs were defined as “the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, past release, or material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.”

American Geosciences, Inc. – Phase I Environmental Site Assessment Report; February 10, 2016: This report documents a Phase I ESA conducted at the Site in 2016 when the Site was vacant. The report identified the following RECs:

- Long-term, historic industrial operations that included metal machining, cleaning/degreasing, spray painting, soldering, sanding, and epoxy coating,
- Historic acetone UST, and
- Potential releases from adjoining properties.

American Geosciences, Inc. – Summary Report, Phase II ESA; February 17, 2016: This report is attached in Appendix B and documents the Phase II ESA activities performed by AGI on January 25 and 26, 2016. AGI advanced seven soil borings and two vapor sampling points at the Site. According to the report, AGI concluded the following:

- Chlorinated solvents were detected in sub-slab vapor samples from the two vapor sampling points. Concentrations were less than volatilization to indoor air screening (VIAS) values.
- Dissolved cadmium and 1,1-dichloroethylene (1,1-DCE) were identified in groundwater at concentrations greater than their non-residential, used-aquifer MSCs.

American Geosciences, Inc. – Summary of Initial Site Characterization Results, April 21, 2016: This report is attached in Appendix C and documents AGI’s activities to evaluate potential impacts to groundwater beneath the Site. The evaluation included soil and groundwater sampling of four monitoring wells installed at the Site. In addition, sub-slab soil gas samples

were collected from five soil vapor monitoring points. According to the report, AGI concluded the following:

- Metals and 1,1,1-trichloroethane (1,1,1-TCA) were detected in soil samples from the four monitoring well borings. The reported concentrations were less than their respective non-residential MSCs.
- Chlorinated solvents were detected in sub-slab vapor samples. However, each of the concentrations was less than VIAS values.
- Dissolved cadmium and 1,1-DCE were identified in groundwater at concentrations greater than their non-residential, used aquifer MSC.

3.2 SOIL BORINGS

AGI advanced seven soil borings in January 2016 at the locations (GP-01 through GP-07) shown on Figure 2. The borings were advanced through the soil using direct-push techniques collecting continuous soil samples to tool refusal. Total achieved depths ranged from approximately two feet at GP-07 to 28 feet at GP-04. AGI visually inspected the soil samples, which were also screened for VOCs using a photoionization detector (PID). Based on observation and PID screening, soil samples were selected from each boring for laboratory analysis by Pace Analytical Services (Pace). The samples were analyzed for Target Compound List (TCL) VOCs, polynuclear aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) metals.

Temporary well PVC wellscreens and risers were installed in soil borings GP-02, GP-05, and GP-06 to collect groundwater samples. Groundwater was not observed in the other four soil borings. AGI collected groundwater samples from the three temporary wells using a peristaltic pump with dedicated, disposable tubing. The groundwater samples were submitted to Pace for laboratory analysis of TCL VOCs and dissolved RCRA metals. Samples for metals analysis were field-filtered through 0.45 micron filters.

3.3 SOIL VAPOR SAMPLES

In January 2016, AGI installed two sub-slab vapor sampling points at the locations (VP-01 and VP-02) shown on Figure 1. AGI installed three additional sub-slab vapor sampling points (VP-03 through VP-05) in March 2016. Sub-slab vapor samples were collected using sample tubes provided by Vaportech Services, Inc. (Vaportech). The tubes were attached to a syringe to collect vapor samples at a rate of approximately 100 milliliters per minute (mL/min) and submitted to Vaportech for VOC analysis by Method TO-17.

3.4 MONITORING WELL INSTALLATION AND SAMPLING

In March 2016, AGI installed four groundwater monitoring wells (MW-01 through MW-04) at the locations shown on Figure 1. Borings for the monitoring wells were advanced using hollow-stem augers to bedrock refusal. Soil samples from each boring were collected continuously and screened for VOCs using a PID. Selected soil samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for laboratory analysis of RCRA metals and TCL VOCs.

Upon reaching bedrock, air rotary techniques were used to advance the borings into bedrock to the water table. Total depths ranged from 12.5 feet at MW-03 to 40 feet at MW-02. The monitoring wells were developed by surging and bailing to remove fine-grained material from the well screens and filter packs.

AGI collected two rounds of groundwater samples in March and April 2016 using the low-flow technique employing a peristaltic pump and dedicated tubing. Monitoring well MW-02 was sampled using a dedicated bailer because the depth to water exceeded the capability of a peristaltic pump.

Groundwater samples were submitted to TestAmerica for laboratory analysis of dissolved RCRA metals and TCL VOCs. The April 2016 samples were also analyzed for total dissolved solids (TDS).

On June 8, 2016, CEC collected another round of groundwater samples from the four monitoring wells. Samples were submitted to TestAmerica for laboratory analysis of dissolved RCRA metals and TCL VOCs. The laboratory report is presented in Appendix D. Samples collected for dissolved metals analysis were field filtered using 0.45 micron filters. CEC also surveyed the four monitoring wells for location and elevation.

3.5 SPRING RECONNAISSANCE

On June 8, 2016, CEC conducted a spring reconnaissance of the areas along Jacks Run Road to the south of the Site and along the intermittent stream adjacent to the Site on the west.

3.6 EVALUATION OF PUBLIC POTABLE WATER SUPPLIES

CEC contacted the Municipal Authority of Westmoreland County (MAWC) to evaluate whether the adjacent properties located along Howell Street to the west and along Jacks Run Road (State Route 48) to the south are connected to the public potable water supply.

3.7 PRELIMINARY ECOLOGICAL SCREEN

CEC conducted a search of federal and state agency records including United States Department of Interior – Fish & Wildlife Service (USFWS), the Pennsylvania Natural Diversity Index (PNDI), the Pennsylvania Game Commission (PGC), and the Pennsylvania Fish and Boat Commission (PFBC) regarding the potential presence of species of concern at the Site.

4.0 FINDINGS

4.1 GEOLOGY

Site geology was established using the information gathered by AGI while drilling the soil borings and monitoring wells. Boring logs are included with the AGI reports provided in Appendices B and C.

The Site is underlain by varying amounts of fill ranging from one foot thick at boring GP-07 to 20 feet thick at boring GP-04. In general, the fill is thickest to the south and east of the onsite building and consists of varying amounts of slag, gravel, sand, clay and rock fragments. The natural soils consist primarily of silt with varying amounts of clay, sand and weathered rock fragments. Bedrock was found as shallow as two feet at boring GP-07 and as deep as 28 feet at boring GP-04. The shallow bedrock was described as sandstone.

4.2 HYDROGEOLOGY

The water table is present under unconfined conditions and was encountered within the sandstone bedrock at depths ranging from approximately nine feet at MW-3 to 19 feet at MW-1.

Table 1 presents the groundwater elevation data collected by CEC, which was used to construct the groundwater contour map for the Site presented as Figure 3. Groundwater beneath the Site flows generally to the southwest.

4.3 SOIL ANALYTICAL RESULTS

The analytical results for soil samples collected from the site borings are summarized in Table 2 and compared to the following Act 2 MSCs for non-residential soils:

- Direct contact MSC (MSC_{DC}) for surface soils (0-2 feet)
 - Published August 27, 2016

- MSC_{DC} for subsurface soils (2-15 feet)
 - Published August 27, 2016
- Soil-to-groundwater MSC (MSC_{Soil-GW})
 - Published August 27, 2016
- Soil volatilization to indoor air screening (VIAS) values
 - Effective guidance date – January 24, 2004
- Potential for vapor intrusion screening values for soil (SV_{SOIL})
 - Draft guidance effective date – January 18, 2017

Although the vapor intrusion SV_{SOIL} were not final at the time this report was written, they have been included to determine if the Site will meet the vapor intrusion guidance when it becomes effective in January of 2017. The complete laboratory reports are included in Appendices B and C.

None of the tested parameters were detected at concentrations greater than their respective MSC_{DC}, MSC_{Soil-GW}, or VIAS value. 1,1-DCE was detected at 0.2 milligrams per kilogram (mg/kg) in subsurface soil collected from boring GP-05 at a concentration greater than the draft vapor intrusion SV_{SOIL} (0.19 mg/kg).

4.4 GROUNDWATER ANALYTICAL RESULTS

The analytical results for the groundwater samples collected at the Site are summarized in Table 3 and compared to the following Act 2 MSCs:

- Groundwater MSC (MSC_{GW}) for non-residential, used aquifers
 - Published August 27, 2016
- Non-residential groundwater VIAS values
 - Effective guidance date – January 24, 2004
- Potential for vapor intrusion screening values for non-residential groundwater (SV_{GW})
 - Draft guidance effective date – January 18, 2017

Although the vapor intrusion SV_{GW} were not final at the time this report was written, they have been included to determine if the Site will meet the vapor intrusion guidance when it becomes effective in January of 2017. The complete laboratory reports are included in Appendices B, C, and D.

Dissolved cadmium and 1,1-DCE were detected in groundwater collected from soil boring GP-05 and monitoring well MW-3 at concentrations greater than the MSC_{GW} for non-residential, used aquifers.

None of the tested parameters were detected at concentrations greater than their respective VIAS values or SV_{GW} .

4.5 SUB-SLAB VAPOR ANALYTICAL RESULTS

The analytical results for sub-slab soil gas samples collected at the Site are summarized in Table 4. The complete laboratory reports are presented in Appendices B and C. Table 6 includes the Act 2 non-residential VIAS values for sub-slab soil gas and the draft non-residential sub-slab soil gas vapor intrusion screening values (SV_{SS}). Although the vapor intrusion SV_{SS} were not final at the time this report was written, they have been included to determine if the Site will meet the vapor intrusion guidance when it becomes effective in January of 2017.

None of the tested parameters were reported at concentrations greater than the VIAS values or SV_{SS} .

4.6 SPRING RECONNAISSANCE

No springs were identified during the June 2016 reconnaissance conducted along Jack Run Road and along the intermittent stream adjacent to the Site on the west.

4.7 EVALUATION OF PUBLIC POTABLE WATER SUPPLIES

MAWC provided the following information regarding the adjacent properties along Howell Street and along Jacks Run Road:

- Residences adjacent to the southern portion of the Site along Jacks Run Road (house numbers 1100, 1102, 1104, 1106, 1108, 1110, 1112, 1114, and 1116) have accounts with the MAWC.
- Residences adjacent to the western portion of the site along Howell Street (street numbers 1807, 1809, and 1811) have accounts with the MAWC.
- MAWC indicated that an address would not have an account unless the property was tapped into their system; therefore, public water is available at properties with accounts.

Based on the information that was provided by the MAWC, residences along Howell Street and Jack's Run Road adjacent to the Site have accounts with the MAWC and are connected to the public water supply.

4.8 PRELIMINARY ECOLOGICAL SCREEN

The preliminary ecological screen indicated that no known species or habitats of concern are present at the Site. The PNDI Project Environmental Review Receipt regarding the presence of species or habitats of concern at the Site is presented in Appendix E.

5.0 IDENTIFICATION OF CONSTITUENTS OF CONCERN

Potential Constituents of Concern (COCs) are those compounds that represent a potential threat to human health because they have been detected at concentrations exceeding applicable MSCs. Based on the results of the site investigations, the Site has been impacted by historic operations. The COCs that have been identified at the Site are described below.

5.1 SOIL

1,1-DCE: 1,1-DCE was detected in subsurface soil collected from soil boring GP-05 at a concentration that exceeds its draft SV_{SOIL} for non-residential soil. This boring is located near the southwest corner of the onsite building.

5.2 GROUNDWATER

1,1-DCE: 1,1-DCE was detected in groundwater collected from soil boring GP-05 and monitoring well MW-3 at concentrations that exceed its MSC_{GW} . Boring GP-05 is located near the southwest corner of the onsite building and monitoring well MW-3 is located approximately 150 feet downgradient of GP-05.

Cadmium: Cadmium was detected in groundwater collected from soil boring GP-05 and monitoring well MW-3 at concentrations that exceed its MSC_{GW} .

5.3 SUB-SLAB SOIL VAPOR

No impacts above applicable criteria were observed in sub-slab soil vapor samples.

6.0 FATE AND TRANSPORT EVALUATION

The current and planned future use of the Site is non-residential. The Site is located in a suburban setting with commercial and residential adjacent properties. The facility and adjacent properties are connected to a public water supply.

A conceptual site model of exposure pathways based on the planned use is presented in Figure 4. Site conditions and potential exposure scenarios are discussed below.

6.1 SOIL

With the exception of one soil sample that slightly exceeds the draft SV_{SOIL} value, no exceedances of non-residential Act 2 MSCs were identified for onsite soils. The potential for vapor intrusion into buildings is discussed in Section 6.4.

6.2 GROUNDWATER

Cadmium and 1,1-DCE were detected in groundwater samples that exceed non-residential, used aquifer MSCs. Potential migration routes and exposure pathways for COCs in groundwater are discussed below.

6.2.1 Onsite

Groundwater is not used at the Site for any purpose and will not be used in the future.

6.2.2 Offsite

Residences along Howell Street and Jack's Run Road adjacent to the Site have accounts with the MAWC and are connected to the public water supply. CEC also searched PADEP's online Pennsylvania Groundwater Information System (PaGWIS) for information regarding known water wells within one-half mile of the Site. No private water supply wells were identified in the PaGWIS database search.

6.3 DIFFUSED GROUNDWATER FLOW TO SURFACE WATER

COCs in groundwater were assessed regarding the potential of diffused groundwater flow to surface water to have adverse impacts to aquatic life or recreational users. This evaluation was conducted using methodology described in PADEP's Act 2 TGM pages IV-18 through IV-29 (PADEP, 2002).

Each compound detected in groundwater is listed in Tables IV-1 Table IV-3 of the TGM. Compounds listed in Table IV-1 are excluded from further surface water evaluation if their concentration is less than the Act 2 non-residential, used aquifer MSC. Compounds listed in Table IV-3 require surface water evaluation if their concentration in groundwater is greater than the Lowest Surface Water Quality Criterion (LSWC) for Toxic Substances (25 Pa Code Chapter 16). As summarized in Table 5, cadmium and 1,1-DCE require surface water evaluation because they have been detected at concentrations that are greater than the LSWC.

The mass balance equation to determine the concentration of a constituent in surface water downstream of a diffuse groundwater discharge is:

$$C_{sw} = \frac{(Q_{gw} * C_{gw}) + (Q_{sw} * Y_c * C_{bsw})}{(Q_{sw} * Y_c) + Q_{gw}}$$

Where:

- C_{sw} = the concentration in surface water downstream of the discharge into surface water
- Q_{gw} = the quantity of groundwater flow discharging into surface water
- C_{gw} = the maximum concentration of a constituent in groundwater
- Q_{sw} = the quantity of surface water flow
- Y_c = the partial mix factor derived from PENTOXSD model
- C_{bsw} = the background concentration in surface water

Each compound exceeding the LSWC was evaluated using Pennsylvania's Single-Discharge Wasteload Allocation Model for Toxic Substances (PENTOXSD). The necessary input parameters for the PENTOXSD model are summarized in Table 6 and described below.

Stream Information

The basin number and stream code were obtained from the Pennsylvania Gazetteer of Streams. The upstream river mile index (RMI) was measured from the confluence of Jacks Run with Long Run. The elevation of the upstream and downstream RMIs were estimated using LIDAR contours available from the Pennsylvania Department of Conservation and Natural Resources' (PADCNR) PAMAP website. The upstream and downstream drainage areas were determined using USGS StreamStats Version 3.0 (Appendix F).

Groundwater Flow

The diffuse groundwater flow rate from the Site into Jacks Run was estimated using Darcy's equation for groundwater flow:

$$Q = k * i * a$$

Where:

Q = groundwater flow

k = average hydraulic conductivity

i = average horizontal hydraulic gradient

a = cross-sectional area of the plume perpendicular to the direction of groundwater flow

The average hydraulic conductivity (k) for fractured sandstone is approximately 1 gpd/ft² (0.1 ft/day) (Driscoll, 1986).

The horizontal hydraulic gradient (i) was calculated to be 0.053 by dividing the difference in head between MW-1 and MW-3 by the horizontal distance between these two wells:

$$i = \frac{1112.33 - 1103.91}{160}$$

The use of these two wells is appropriate because the direction of MW-3 from MW-1 is roughly parallel to the direction of groundwater flow (Figure 3).

The cross-sectional area (a) of the plume perpendicular to the direction of groundwater flow is calculated by multiplying the width of the estimated plume by its height. Cadmium and 1,1-DCE concentrations were less than the reporting limit in wells MW-2 and MW-4; therefore, the width of the plume was estimated as the sum of one-half the distance between MW-3 and MW-2 and one-half the distance between MW-3 and MW-4 (180 feet). The height of the plume was estimated to be the difference in elevation between the groundwater elevation at MW-3 (1,103.91 feet above mean sea level [famsl]) and the elevation of Jacks Run immediately downgradient of MW-3 (approximately 1,090 famsl), which is approximately 14 feet. The calculated cross-sectional area of the plume is 2,520 ft².

Therefore, the estimated amount of groundwater that is available to discharge into Jacks Run was calculated to be 13 ft³/day (0.0001 million gallons per day [mgd]) using Darcy's equation.

Concentrations in Groundwater and Background Surface Water

The maximum concentration from the monitoring wells located near the downgradient Site boundary (MW-2, MW-3, and MW-4) was used in the evaluation as a conservative estimate of the groundwater concentration at the receiving stream. Therefore, the concentration of cadmium in groundwater selected was 15 micrograms per liter (µg/L) and the concentration of 1,1-DCE selected was 7.6 µg/L.

Background surface water concentrations of cadmium and 1,1-DCE were assumed to be zero. Because site-specific information for hardness and pH in Jacks Run was not available, the default values were used for each RML.

PENTOXSD Output

The printout from the PENTOXSD model run is presented in Appendix F. The effluent limits for cadmium and 1,1-DCE recommended by PENTOXSD were the model inputs because the groundwater concentrations were less than the most stringent Water Quality Based Effluent Limit (WQBEL) for each constituent. Therefore, attainment of surface water criteria for cadmium and 1,1-DCE has been demonstrated.

6.4 POTENTIAL FOR VOLATILIZATION TO INDOOR AIR

The soil sample collected from boring GP-05, located near the southwest corner of the building, contains 1,1-DCE at 0.2 mg/kg that slightly exceeds the draft SV_{SOIL} value of 0.19 mg/kg.

Although the detected 1,1-DCE concentration is less than the current Soil VIAS Value of 7.6 mg/kg, additional assessment using the Statewide Health Standard (SHS) Vapor Intrusion Assessment Process described in the draft Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil Under Act 2 has been included to determine if the Site will meet the draft vapor intrusion guidance when it becomes effective in January of 2017.

The draft SHS Vapor Intrusion Assessment Process provides for alternative vapor intrusion assessment options of potential vapor intrusion sources. One option is to perform near-source soil gas, sub-slab soil gas, or indoor air screening. Sub-slab soil vapor sampling was conducted in January and March 2016 by AGI (Table 4) indicating that 1,1-DCE and the other tested parameters were below the draft SV_{SS} values. Therefore, the potential exposure pathway for volatilization to indoor air is incomplete.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information provided in the Section 6.0, no current or probable exposure pathways have been documented at the Site. Therefore, the Site does not require a Cleanup Plan or Risk Assessment. This report includes a Post-Remediation Care Plan to satisfy the requirements of a Combined RIR/Final Report.

8.0 POST-REMEDATION CARE PLAN

The proposed Post-Remediation Care Plan for the Site consists of the following:

- Uniform Environmental Covenant (UEC):
 - Acknowledge the presence of groundwater impacts;
 - Restrict the Site to non-residential use;
 - Prohibit the use of groundwater for any purpose; and
 - A schedule for reporting to PADEP the results of Site assessments to demonstrate ongoing maintenance of the conditions in the UEC.

- Monitoring well abandonment: Upon receipt of written approval from PADEP that groundwater monitoring can be ceased, the four monitoring wells will be formally abandoned. Documentation of well abandonment will be provided to PADEP.

9.0 PUBLIC COMMENTS

As required, the public was given a 30-day period after submittal of the NIR during which they could provide comments or request to be involved in the development of the remediation plans for the Site. No public comments were received during this period.

10.0 CONTACT INFORMATION AND CERTIFICATION

10.1 CONTACT INFORMATION

Owner/Remediator

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Philip Bishop
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Phone: 412-967-4661
Email: PBishop@echorealty.com

Consultant:

Civil & Environmental Consultants, Inc.
Jennifer A. Ewing – Project Manager
333 Baldwin Road
Pittsburgh, PA 15205
Phone: 412-429-2324
Email: jewing@cecinc.com

ORIGINAL

10.2 CERTIFICATION

By affixing my seal to this, I do hereby certify to the best of my knowledge, information, and belief that the information contained in this report is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

Jennifer A. Ewing, P.G.

P.G. License Number: 4735

Signature Jennifer A. Ewing

Date Jan 24 - 2017

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JAN 24 2017

DEP, SOUTHWEST REGION
ENVIRONMENTAL CLEANUP



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11.0 REFERENCES

Driscoll, Fletcher G (1986). *Groundwater and Wells (2nd ed.)*. Johnson Division, St. Paul, Minnesota, 55112.

PADEP (June 2002). "Technical Guidance Manual 253-0300-1100, Pennsylvania's Land Recycling Program".

PADEP (January 2004). "Land Recycling Program Technical Guidance Manual – Section IV.A.4. Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard, Document 253-0300-100."

PADEP (January 2011). Pennsylvania Bulletin, Title 25 -- Environmental Protection, 25 PA. Code Ch. 250, Land Recycling Program.

PADEP (January 2017). "Land Recycling Program Technical Guidance Manual Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2, Document 261-0300-101."

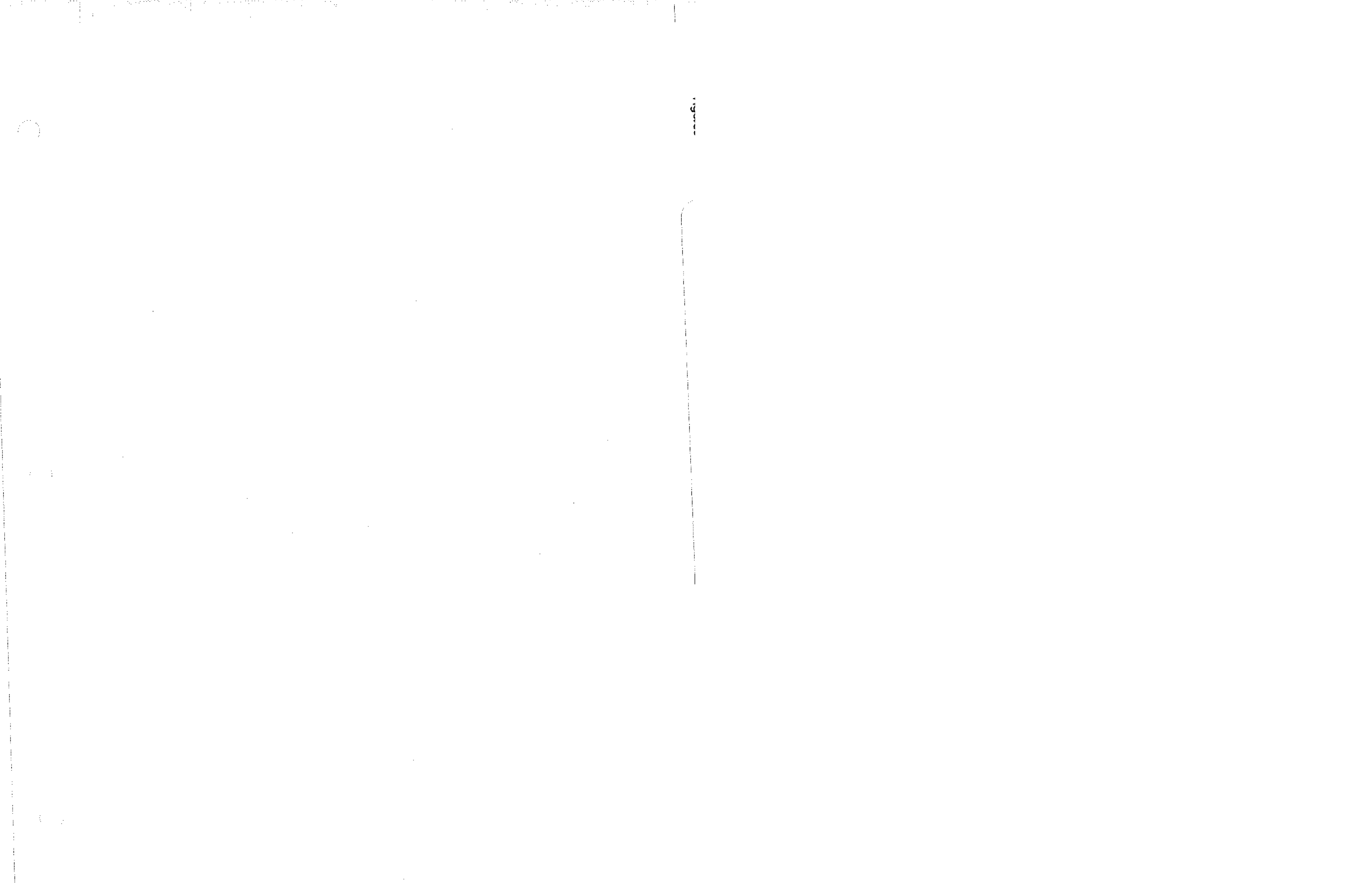
12.0 LIMITATIONS

This report has been prepared in keeping with accepted standards of practice for preparation of environmental assessments and using CEC's professional judgment. CEC makes no claim as to the presence or absence of contamination except at the time of sampling and for the specific locations and parameters tested during the investigation. No warranties, either expressed or implied, are made herein.

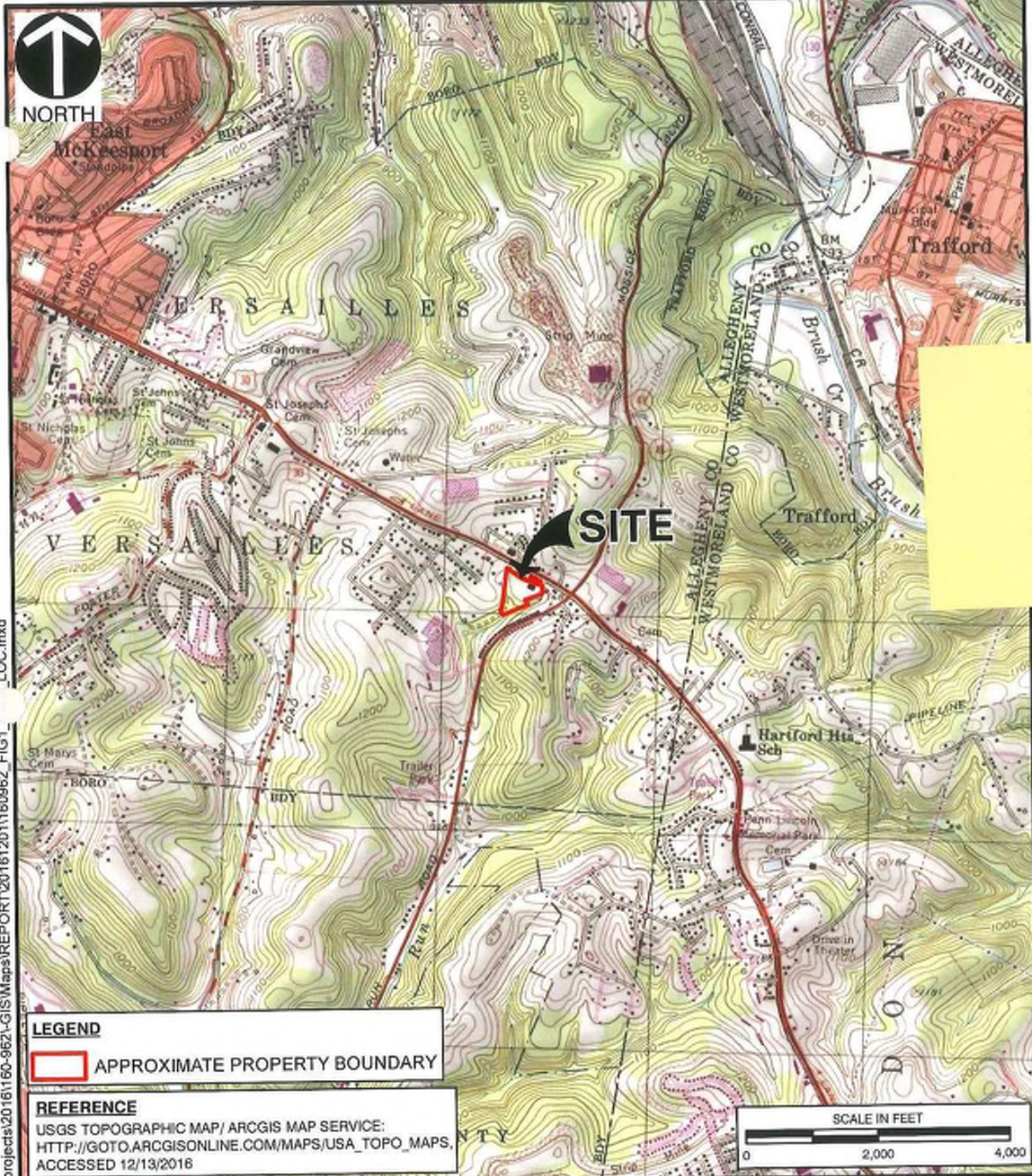
The boring logs and related information presented in this report depict subsurface conditions at the test boring locations and at the time of drilling. Soil conditions at other locations may differ. Geologic correlations shown between test borings generally are based on straight-line interpolation. Actual conditions between test borings may differ.

Chemical data presented in this report are applicable to the location, time of sample collection, and the parameters analyzed. Chemical conditions may change with time. Reported conditions may not represent current or future conditions. Concentration maps generated from this data are constructed by interpolation between points of measured concentration and using knowledge of specific Site conditions. Chemical concentrations between sampling points may differ.

The water levels presented in this report are applicable to the location and time of measurement. Water levels may fluctuate through time. Water table contour maps generated from this data are constructed by interpolation between points of known static water level elevations and using knowledge of specific Site conditions. Actual static water levels at locations between the monitoring points may differ from those depicted.



FIGURES



ORIGINAL

LEGEND
[Red outline box] APPROXIMATE PROPERTY BOUNDARY

REFERENCE
USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS](http://gto.arcgis.com/maps/usa_topo_maps),
ACCESSED 12/13/2016

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35TH STROUSS ASSOCIATES
1810 LINCOLN HIGHWAY
NORTH VERSAILLES TOWNSHIP, ALLEGHENY CO.

DRAWN BY: CBL CHECKED BY: MLO APPROVED BY: *JAE* FIGURE NO: 1
DATE: 12/13/2016 SCALE: 1" = 2,000' PROJECT NO: 160-962

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ORIGINAL



- LEGEND**
- SOIL BORING
 - ▲ VAPOR POINT
 - ⊗ MONITORING WELL LOCATION
 - APPROXIMATE PROPERTY BOUNDARY

INTERMEDIATE CONTOUR - 2 FT. INTERVAL
 INDEX CONTOUR - 10 FT. INTERVAL

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REFERENCE
 ALLEGHENY COUNTY DIGITAL PARCEL DATA
 PUBLICATION DATE: MAY, 2016
 PAMAP PROGRAM LIDAR DATA, 2' INTERVAL, 2006
 ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
 HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY,
 ACCESSED 12/13/2016, IMAGERY DATE: 2015.

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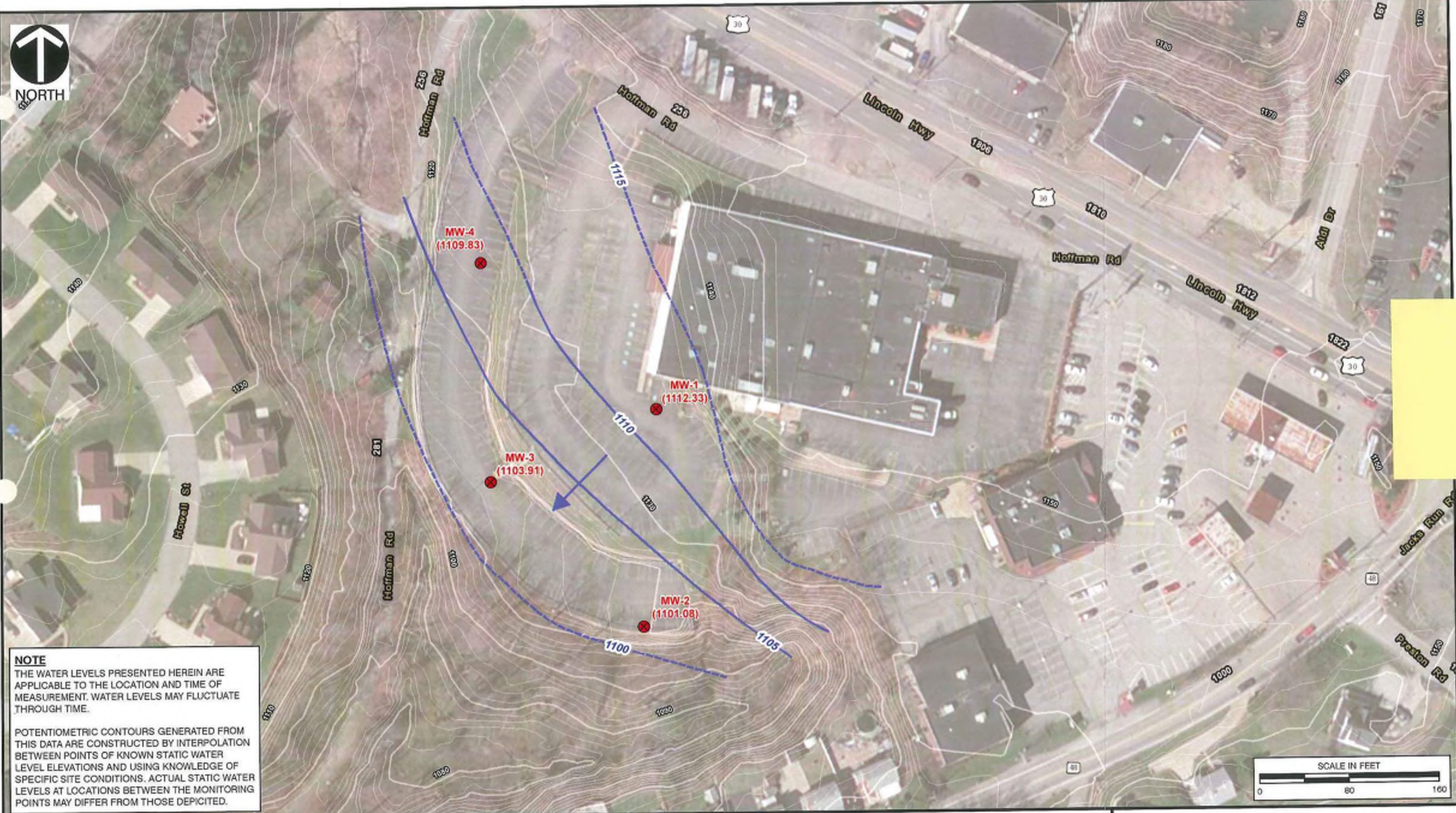
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 1810 LINCOLN HIGHWAY
 NORTH VERSAILLES TOWNSHIP, ALLEGHENY CO.

SITE LAYOUT AND SAMPLE LOCATIONS

| | | | |
|------------------|-----------------|-------------------------|--------------|
| DRAWN BY: CBL | CHECKED BY: MLO | APPROVED BY: <i>JAE</i> | FIGURE NO: 2 |
| DATE: 12/13/2016 | SCALE: 1" = 80' | PROJECT NO: 160-962 | |

SOUTHWEST REGION

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NOTE
 THE WATER LEVELS PRESENTED HEREIN ARE APPLICABLE TO THE LOCATION AND TIME OF MEASUREMENT. WATER LEVELS MAY FLUCTUATE THROUGH TIME.

POTENTIOMETRIC CONTOURS GENERATED FROM THIS DATA ARE CONSTRUCTED BY INTERPOLATION BETWEEN POINTS OF KNOWN STATIC WATER LEVEL ELEVATIONS AND USING KNOWLEDGE OF SPECIFIC SITE CONDITIONS. ACTUAL STATIC WATER LEVELS AT LOCATIONS BETWEEN THE MONITORING POINTS MAY DIFFER FROM THOSE DEPICTED.

LEGEND

- ⊗ MONITORING WELL LOCATION
- 112.33) GROUNDWATER ELEVATION (6/8/16)
- GROUNDWATER ELEVATION CONTOUR
- - - GROUNDWATER ELEVATION CONTOUR - INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

INTERMEDIATE CONTOUR - 2 FT. INTERVAL
 INDEX CONTOUR - 10 FT. INTERVAL

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JAN 26 2017

REFERENCE
 PAMAP PROGRAM LIDAR DATA, 2' INTERVAL, 2006

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
[HTTP://GTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://gto.arcgis.com/maps/world_imagery),
 ACCESSED 12/13/2016, IMAGERY DATE: 2015.

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| | | | | | |
|--------------------------------|------------|-------------|----------|--------------|------------|
| DRAWN BY: | CBL | CHECKED BY: | MLO | APPROVED BY: | FIGURE NO: |
| DATE: | 12/13/2016 | SCALE: | 1" = 80' | PROJECT NO: | 160-962 |
| GROUNDWATER CONTOUR MAP | | | | | 3 |

ORIGINAL

TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
35TH STROUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA

| Location: | MW-1 | MW-2 | MW-3 | MW-4 |
|---|----------|----------|-----------|-----------|
| Date: | 6/8/2016 | 6/9/2016 | 6/10/2016 | 6/11/2016 |
| TOC Elevation (ft AMSL) ⁽¹⁾ | 1131.33 | 1119.06 | 1112.51 | 1123.05 |
| Water Level (ft below TOC) | 19.00 | 17.98 | 8.60 | 13.22 |
| Water Level Elevation (ft AMSL) | 1112.33 | 1101.08 | 1103.91 | 1109.83 |

Notes:

⁽¹⁾ Elevation surveyed by CEC at the top of casing

TOC - Top of Casing

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
35TH STROUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA

| Sample Location: Depth: Sample Collected By: Date Collected: | GP-01 | GP-02 | GP-03 | | GP-04 | GP-05 | GP-06 | GP-07 | MW-01 | MW-02 | MW-03 | MW-04 | Nonresidential MSC _{OC} (0-2 ft.) ⁽¹⁾ | Nonresidential MSC _{OC} (2-15 ft.) ⁽¹⁾ | Nonresidential MSC _{SO4/GW} Used Aquifer TDS ≤ 2500 ⁽²⁾ | USEPA-PA Defaults Nonresidential Soil VIAS Values ⁽⁴⁾ | Nonresidential SV _{SO4} ⁽⁵⁾ |
|--|---------------|---------------|--------------|---------------|---------------|---------------|---------------|--------------|------------------|---------------|---------------|----------------|---|--|--|--|--|
| | GP-01:11-13:S | GP-02:19-21:S | GP-03:6-8:S | GP-03:20-22:S | GP-04:21-23:S | GP-05:11-12:S | GP-06:14-16:S | GP-07:1-2:S | MW-01:10-12:S | MW-02:8-10:S | MW-03:2-4:S | MW-04:8-10:S | | | | | |
| | 11 - 13 ft | 19 - 21 ft | 6 - 8 ft | 20 - 22 ft | 21 - 23 ft | 11 - 12 ft | 14 - 16 ft | 1 - 2 ft | 10 - 12 ft | 8 - 10 ft | 2 - 4 ft | 8 - 10 ft | | | | | |
| | AGI | AGI | AGI | AGI | AGI | AGI | AGI | AGI | AGI | AGI | AGI | AGI | | | | | |
| | 1/26/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 3/7/2016 | 3/7/2016 | 3/7/2016 | 3/7/2016 | | | | Current | Effective January 18, 2017 |
| Target Compound List Volatile Organic Compounds (mg/kg)⁽¹⁾ | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | <0.0043 | <0.0036 | <0.011 | <0.0040 | <0.0052 | 0.19 | <0.0036 | <0.0041 | 0.00663 J | <0.004 | <0.0036 | <0.0036 | 10,000 | 10,000 | 20 | 170 | 7.4 |
| 1,1-Dichloroethane | <0.0043 | <0.0036 | <0.011 | <0.0040 | <0.0062 | 0.028 | <0.0036 | <0.0041 | <0.004 | <0.004 | <0.0036 | <0.0036 | 1,400 | 1,600 | 16 | 2.7 | 0.19 |
| 1,1-Dichloroethene | <0.0043 | <0.0036 | <0.011 | <0.0040 | <0.0062 | 0.2 | <0.0036 | <0.0041 | <0.004 | <0.004 | <0.0036 | <0.0036 | 10,000 | 10,000 | 400 | 14,000 | 1,100 |
| 2-Butanone (MEK) | <0.0086 | <0.0072 | <0.022 | <0.0081 | 0.02 | <0.0084 | <0.0073 | <0.0081 | <0.004 | <0.004 | <0.0036 | <0.0036 | 10,000 | 10,000 | 10,000 | 110,000 | 4,700 |
| Acetone | <0.0086 | 0.033 | 0.056 | <0.0081 | 0.15 | 0.031 | <0.0073 | 0.094 | <0.016 | <0.016 | <0.014 | <0.014 | 10,000 | 10,000 | | | |
| Polycyclic Aromatic Hydrocarbons (mg/kg)⁽¹⁾ | | | | | | | | | | | | | | | | | |
| Anthracene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.0085 | <0.0069 | <0.14 | -- | -- | -- | -- | 150,000 | 190,000 | 350 | NOC | NS |
| Benzo(a)anthracene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.015 | 0.0084 | 0.23 | -- | -- | -- | -- | 150 | 190,000 | 430 | NS | NS |
| Benzo(a)pyrene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.013 | 0.012 | 0.15 | -- | -- | -- | -- | 12 | 190,000 | 46 | NS | NS |
| Benzo(b)fluoranthene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.020 | 0.023 | 0.33 | -- | -- | -- | -- | 76 | 190,000 | 170 | NS | NS |
| Benzo(g,h,i)perylene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.012 | 0.011 | 0.16 | -- | -- | -- | -- | 190,000 | 190,000 | 180 | NS | NS |
| Benzo(k)fluoranthene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.009 | 0.011 | 0.16 | -- | -- | -- | -- | 76 | 190,000 | 610 | NS | NS |
| Chrysene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.015 | 0.026 | 0.18 | -- | -- | -- | -- | 130,000 | 190,000 | 3,200 | NS | NS |
| Fluoranthene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | 0.017 | 0.033 | 0.043 | 0.20 | -- | -- | -- | -- | 76 | 190,000 | 22,000 | NS | NS |
| Indeno(1,2,3-cd)pyrene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | 0.0077 | 0.0073 | <0.14 | -- | -- | -- | -- | 760 | 190,000 | 25 | NOC | 25 |
| Naphthalene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | <0.0088 | <0.0071 | <0.0069 | 0.18 | -- | -- | -- | -- | 190,000 | 190,000 | 10,000 | NOC | NS |
| Phenanthrene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | 0.012 | 0.018 | 0.019 | <0.14 | -- | -- | -- | -- | 96,000 | 190,000 | 2,200 | NS | NS |
| Pyrene | <0.0068 | <0.0071 | <0.0096 | <0.0068 | 0.014 | 0.028 | 0.04 | 0.25 | -- | -- | -- | -- | | | | | |
| RCRA Metals (mg/kg) | | | | | | | | | | | | | | | | | |
| Arsenic | 0.63 | 5.2 | 0.81 | 2.8 | 0.62 | 6.8 | 9.9 | 8.7 | 25 | 6 | 22 | 2.3 | 61 | 150,000 | 29 | NS | NS |
| Barium | 68.7 | 96.3 | 216 | 62.7 | 148 | 32.6 | 67.4 | 103 | 26 | 78 | 32 | 420 F1 | 150,000 | 190,000 | 8,200 | NS | NS |
| Cadmium | <0.2 | 0.31 | <0.33 | <0.18 | <0.36 | 2 | <0.22 | 1.1 | 37 | 1.1 | 0.86 | 1.2 | 6 | 190,000 | 38 | NS | NS |
| Chromium | 26.5 | 19.6 | 2.9 | 20.0 | 2.9 | 19.9 | 45.5 | 309 | 26 | 24 | 18 | 13 | 190,000 | 190,000 | 190,000 | NS | NS |
| Lead | 14.4 | 20.4 | 2.1 | 13.1 | 0.76 | 14.3 | 15.9 | 57.1 | 9.9 | 16 | 17 | 8.5 | 1,000 | 190,000 | 450 | NS | NS |
| Mercury | <0.097 | <0.1 | <0.14 | <0.097 | <0.13 | <0.1 | <0.1 | <0.1 | 0.032 J | 0.038 | 0.045 | 0.019 J | 510 | 190,000 | 10 | NS | NS |
| Selenium | <0.53 | <0.59 | 1.7 | <0.48 | 1.2 | <0.52 | <0.39 | <0.69 | <1.1 | 0.93 J | 0.73 J | 0.82 J | 16,000 | 190,000 | 26 | NS | NS |
| Silver | <0.4 | <0.44 | <0.65 | <0.36 | <0.73 | <0.39 | <0.44 | 1.4 | <0.54 | <0.55 | <0.51 | <0.96 F1 | 16,000 | 190,000 | 84 | NS | NS |

Footnotes:
(1) Only the constituents reported at concentrations greater than the method detection limit are shown.
(2) Direct Contact MSCs
(3) Soil-to-Groundwater MSCs
(4) USEPA-PA Default Nonresidential Volatilization to Indoor Air Soil Screening Values
(5) Nonresidential Soil Stochastic Health Standard Vapor Intrusion Screening Values - effective January 18, 2017.

"--" - parameter not analyzed.

"NS" - No Standard

"NOC" - Not of Concern

Bolded values were detected at concentrations above the method detection limit.

Value exceeds MSC_{OC} and/or MSC_{SO4/GW}

Value exceeds SV_{SO4}

Qualifiers:

B - Compound was found in the blank and sample.

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Result is less than the laboratory reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
35TH STROUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA

| Sample Location: Sample Collected By: Date Collected: | GP-02 | GP-05 | GP-06 | MW-01 | | | | MW-02 | | | MW-03 | | | MW-04 | | | Non-Residential, Used Aquifer MSC _{GW} (TDS ≤ 2500) | Non-Residential VIAS Values ⁽²⁾ Current | Non-Residential SV _{GW} ⁽³⁾ Effective January 18, 2017 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|--------------------|--------------------|----------|--------------------|--------------------|----------|--------------------|--------------------|----------|---|--|---|
| | GP-02: 201601:W | GP-05: 201601:W | GP-06: 201601:W | FD-01: 201603:W | MW-01: 201603:W | MW-01: 201604:W | MW-01 | MW-02: 201603:W | MW-02: 201604:W | MW-02 | MW-03: 201603:W | MW-03: 201604:W | MW-03 | MW-04: 201603:W | MW-04: 201604:W | MW-04 | | | |
| | AGI | AGI | AGI | AGI | AGI | AGI | CEC | AGI | AGI | CEC | AGI | AGI | CEC | AGI | AGI | CEC | | | |
| | 1/26/2016 | 1/26/2016 | 1/26/2016 | 3/11/2016 | 3/11/2016 | 4/7/2016 | 6/8/2016 | 3/11/2016 | 4/7/2016 | 6/8/2016 | 3/11/2016 | 4/7/2016 | 6/8/2016 | 3/11/2016 | 4/7/2016 | 6/8/2016 | | | |
| Target Compound List Volatile Organic Compounds (ug/L) ⁽¹⁾ | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | <1.0 | 55 | <1.0 | 1.8 | 2 | 5.1 | 5.7 | 5 | 3.4 J | 5.6 | 43 | 36 | 47 | <1.0 | <5.0 | <5.0 | 200 | NOC | 160,000 |
| 1,1-Dichloroethane | <1.0 | 13.3 | 1.4 | 0.9 J | 0.98 J | 12 | 8.5 | <1.0 | <5.0 | <5.0 | 8.2 | 8.4 | 9.4 | <1.0 | <5.0 | <5.0 | 160 | 26,000 | 1,600 |
| 1,1-Dichloroethene | <1.0 | 17.8 | <1.0 | 0.64 J | 0.73 J | 6.9 | 4.3 J | <1.0 | <5.0 | <5.0 | 6.9 | 7.6 | 7.1 | <1.0 | <5.0 | <5.0 | 7 | 220,000 | 3,800 |
| 1,3-Dichlorobenzene | <1.0 | <1.0 | <1.0 | 0.22 J | 0.19 J | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 0.14 J | <5.0 | <5.0 | 0.21 J | <5.0 | <5.0 | 600 | NA | NS |
| Acetone | <1.0 | <1.0 | <1.0 | <5.0 ^c | <5.0 ^c | <20.0 | <20.0 | 3.9 J ^c | <20.0 | <20.0 | 3.7 J ^c | <20.0 | <20.0 | 5.5 ^c | <20.0 | <20.0 | 110,000 | NOC | 470,000,000 |
| Benzene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | 0.18 J | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 5 | 5,900 | 350 |
| Chloroform | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 0.29 J | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 80 | 580 | 180 |
| Methyl Acetate | <5.0 | <5.0 | <5.0 | <1.0 | 1.3 | <25.0 | <25.0 | <1.0 | <25.0 | <25.0 | <1.0 | <25.0 | <25.0 | <1.0 | <25.0 | <25.0 | 120,000 | 95,000,000 | NS |
| Toluene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | 0.21 J | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 1,000 | NOC | 430,000 |
| Trichloroethene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 0.49 J | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | 5 | 24,000 | 110 |
| RCRA Metals (Dissolved) (ug/L) ⁽¹⁾ | | | | | | | | | | | | | | | | | | | |
| Arsenic | <5.0 | <5.0 | <5.0 | 4 J | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 10 | NS | NS |
| Barium | 69 | 18.9 | 73.6 | 130 J | 120 | 92 J | 89 J | 270 | 160 J | 170 J | 110 J | 120 J | 110 J | 51 J | 50 J | 56 J | 2,000 | NS | NS |
| Cadmium | <3.0 | 12.3 | <3.0 | <5.0 | <5.0 | <5.0 | <5.0 | 0.26 J | 0.43 J | 0.20 JB | 13 | 15 | 15 B | <5.0 | <5.0 | <5.0 | 5 | NS | NS |
| Chromium | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.2 | 5 | 5.2 | <5.0 | <5.0 | <5.0 | 100 ⁽⁴⁾ | NS | NS |
| Selenium | <3.0 | <3.0 | <3.0 | <10.0 | <10.0 | 2.8 J | <10.0 | <10.0 | 3.8 J | 4.4 J | 2.6 J | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 3.9 J | 50 | NS |

Footnotes:

- (1) Only the constituents reported at concentrations greater than the method detection limit are shown.
(2) USEPA-PA Default Nonresidential Volatilization to Indoor Air Groundwater Screening Values
(3) Nonresidential Groundwater Statewide Health Standard Vapor Intrusion Screening Values - effective January 18, 2017.
(4) Total chromium.
"NA" - Not Available
"NS" - No Standard
"NOC" - Not of Concern
Bolted values were detected at concentrations above the method detection limit.
Value exceeds MSC_{GW}
Value exceeds SV_{GW}
Qualifiers:
J - Result is less than the laboratory reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.
B - Compound was found in the blank and sample.
^c - CCV Recovery is outside acceptance limits.

TABLE 4
SUMMARY OF SUB-SLAB VAPOR ANALYTICAL RESULTS
35TH STROUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA

| Sample Location: | VP-01 | | VP-02 | | VP-03 | VP-04 | VP-05 | Non-Residential VIAS Values ⁽²⁾ | Non-Residential SV _{SS} ⁽³⁾ |
|--|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|---|
| | VP-01:201601:V | VP-01:201603:V | VP-02:201601:V | VP-02:201603:V | VP-03:201603:V | VP-04:201603:V | VP-05:201603:V | | |
| Sample Collected By: | AGI | AGI | AGI | AGI | AGI | AGI | AGI | | |
| Date Collected: | 1/27/2016 | 3/14/2016 | 1/27/2016 | 3/14/2016 | 3/14/2016 | 3/14/2016 | 3/14/2016 | Current | Effective January 18, 2017 |
| Volatile Organic Compounds (ug/m ³) ⁽¹⁾ | | | | | | | | | |
| 1,1,1-Trichloroethane | 1206.4 E | 344.9 | 322.2 | 107.9 | <20 | 26.4 | <20 | 610,000 | 2,800,000 |
| 1,1-Dichloroethane | 113.8 | 53.1 | <10 | <20 | <20 | 20.7 | <20 | 5,000 | 9,800 |
| 1,1-Dichloroethene | 317.3 | 275.5 | 11.3 | 18.6 J | <20 | <20 | <20 | 58,000 | 110,000 |
| Acetonitrile | <10 | <20 | 10.4 | 15.2 J | <20 | 22.5 | 30.3 | 17,000 | 34,000 |
| Benzene | 23.9 | <20 | 21.9 | <20 | <20 | <20 | <20 | 1,100 | 2,000 |
| Bromomethane | <10 | <20 | <10 | <20 | <20 | <20 | <20 | 1,400 | 2,800 |
| Carbon Disulfide | <10 | <20 | 22.9 | <20 | <20 | <20 | 24.9 | 200,000 | 390,000 |
| Chloroform | <10 | <20 | <10 | <20 | <20 | <20 | 33.2 | 92 | 680 |
| m-Xylene | <10 | <20 | 14 | <20 | <20 | <20 | <20 | NS | 56,000 ⁽⁴⁾ |
| Tetrachloroethene | 13.7 | 18 J | 10.1 | <20 | <20 | <20 | <20 | 14,000 | 22,000 |
| Toluene | 19.5 | <20 | 21.7 | <20 | <20 | <20 | 34.1 | 120,000 | 2,800,000 |
| Trichloroethene | <10 | <20 | 68.4 | 40.9 | <20 | <20 | <20 | 4,800 | 1,100 |
| Vinyl Chloride | <10 | 16 J | <10 | <20 | <20 | <20 | <20 | 950 | 1,700 |

Footnotes:

- (1) Only the constituents that have been detected at concentrations greater than the method detection limit are shown on the table.
(2) Nonresidential Volatilization to Indoor Air Sub-Slab Soil Gas Screening (VIAS) values
(3) Nonresidential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values - effective January 18, 2017.
(4) Total xylenes

"NS" - No Standard

Bolded values were detected at concentrations above the method detection limit.

Value exceeds the VIAS

Value exceeds the SV_{SS}

Qualifiers:

< - Analyte was not detected above the Laboratory Method Detection Limit

E - Concentration of analyte exceeds the range of the calibration curve when volume collected is 1 Liter or greater.

J - Result is less than the laboratory reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

**TABLE 5
SCREENING FOR FURTHER ANALYSIS OF DIFFUSE GROUNDWATER FLOW TO SURFACE WATER
35TH STROUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA**

| Constituent | Maximum Groundwater Concentration ⁽¹⁾ (ug/L) | Constituent Listed in Table IV-1? | Non-Residential Used Aquifer SHS (ug/L) | Screening Result ⁽²⁾ | Constituent Listed in Table IV-3? | Lowest Surface Water Criterion (LSWC) (ug/L) | Screening Result ⁽³⁾ | Constituent Requires Further Analysis? |
|---------------------------|---|-----------------------------------|---|---------------------------------|-----------------------------------|--|---------------------------------|--|
| Volatile Organics | | | | | | | | |
| 1,1,1-Trichloroethane | 47 | YES | 200 | Screens Out | NO | -- | -- | No |
| 1,1-Dichloroethane | 9.4 | YES | 160 | Screens Out | NO | -- | -- | No |
| 1,1-Dichloroethene | 7.6 | NO | -- | -- | YES | 33 | Screens Out | No |
| 1,3-Dichlorobenzene | 0.21 | NO | -- | -- | YES | 69 | Screens Out | No |
| Acetone | 5.5 | NO | -- | -- | YES | 3500 | Screens Out | No |
| Benzene | 0.18 | YES | 5 | Screens Out | NO | -- | -- | No |
| Chloroform | 0.29 | NO | -- | -- | YES | 5.7 | Screens Out | No |
| Toluene | 0.21 | NO | -- | -- | YES | 330 | Screens Out | No |
| Trichloroethene | 0.49 | YES | 5 | Screens Out | NO | -- | -- | No |
| Metals (dissolved) | | | | | | | | |
| Barium | 270 | YES | 2000 | Screens Out | NO | -- | -- | No |
| Cadmium | 15 | NO | -- | -- | YES | 0.25 | Retained | Yes |
| Chromium | 6.2 | YES | 100 | Screens Out | NO | -- | -- | No |
| Selenium | 4.4 | NO | -- | -- | YES | 4.6 | Screens Out | No |

Notes:

⁽¹⁾ Groundwater concentration is the maximum detected concentration from downgradient wells MW-2, MW-3, and MW-4

⁽²⁾ Constituent screens out if maximum concentration is less than non-residential, used aquifer SHS

⁽³⁾ Constituent screens out if maximum concentration is less than the LSWC

TABLE 6
PENTOXSD MODEL INPUTS
PENTOUSS ASSOCIATES PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, PENNSYLVANIA

| PENTOXSD Site-Specific Input Factors | Value | Input Units | Source |
|--------------------------------------|---------|----------------------|--|
| Basin Number | 19D | -- | Pennsylvania Gazetteer of Streams |
| Stream Code | 37462 | -- | PENTOXSD drop down menu of stream codes |
| Upstream RMI | 2.77 | mi | Approximate distance up river from downstream confluence with Long Run |
| Downstream RMI | 0 | mi | Confluence with Long Run |
| Upstream Elevation | 1080 | ft msl | PAMAP Lidar Contours |
| Downstream Elevation | 820 | ft msl | PAMAP Lidar Contours |
| Upstream Drainage Area | 0.19 | sq mi | Drainage area at RMI; USGS StreamStats Version 3.0 |
| Downstream Drainage Area | 4.41 | sq mi | Drainage area of Jacks Run; USGS StreamStats Version 3.0 |
| Upstream Stream Hardness | 100 | mg/L | Default |
| Upstream Stream pH | 7 | S.U. | Default |
| Analysis Stream Hardness | 100 | mg/L | Default |
| Analysis Stream pH | 7 | S.U. | Default |
| Groundwater Flow | 13 | ft ³ /day | Calculated |
| | 0.00010 | mgd | |
| Cadmium Concentration in Groundwater | 15.0 | µg/L | Laboratory analysis |
| | 7.6 | µg/L | |
| 1,1-DCE Concentration in Groundwater | | | Laboratory analysis |

APPENDIX A

**NOTICE OF INTENT TO REMEDIATE AND
MUNICIPAL AND PUBLIC NOTIFICATIONS**



Civil & Environmental Consultants, Inc.

July 7, 2016

Mr. David E. Eberle
Environmental Cleanup Program Manager
Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

Dear Mr. Eberle:

Subject: Notice of Intent to Remediate
1810 Lincoln Highway
North Versailles, Pennsylvania 15137
North Versailles Township, Allegheny County
CEC Project 160-962.0001

Civil & Environmental Consultants, Inc. (CEC), on behalf of 35th Strouss Associates, presents this Notice of Intent to Remediate (NIR) for the property located at 1810 Lincoln Highway in North Versailles (North Versailles Township), Allegheny County, Pennsylvania 15137. This submittal includes copies of the notification letter to the municipality and newspaper notice. The proof of municipality receipt of the notification letter and proof of newspaper publication will be submitted to you upon our receipt. The existing site assessment/characterization reports were previously provided to you via email on May 2, 2016.

Please call us at 412-429-2324 if you have any questions or comments regarding this NIR.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Jennifer A. Ewing, P.G.
Project Manager


Mary J. Guinee
Vice President

Enclosures

cc: Phil Bishop, P.E., 35th Strouss Associates (via email)
Evan Elliott, PADEP (via email, evelliott@pa.gov)

160-962.0001-L-NIR cover-7.6.16/P

For DEP Use Only

PF # _____

Rem ID # _____

NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained (if known) and attach a scaled site map (if available).

Property Name 35th Strouss Associates

Former Name(s) / AKA _____

Address / Location 1810 Lincoln Highway

City North Versailles Zip Code 15137

Municipality(s) North Versailles Township County(ies) Allegheny

Latitude 40 ° (deg). 22 ' (min) 5.8 " (sec) Longitude -79 ° (deg). 46 ' (min) 55.3 " (sec)

Horizontal Collection Method Google Earth Pro, accessed May-16-2016

Horizontal Reference Datum _____ Reference Point approximate center of site

Wish to participate in the DEP/EPA MOA. Contact the Land Recycling Program Manager at landrecycling@pa.gov for details.

EPA ID#, if known None known

DEP ID#(s), if known None known
(i.e., eFACTS site ID#, storage tank facility ID#, water quality permit #, watershed permit, air quality permit #, etc.)

Date Release Occurred (if known) Not known

Provide a brief description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any know primary contaminants to be addressed, and the intended future use of the property.

The Property is believed to have been impacted by historic industrial use of the Property as an electrical brush manufacturing facility (1956-1989) whose operations included cleaning/degreasing/pressure washing activities. The environmental investigations conducted to date identified the presence of cadmium and 1,1-Dichloroethene (1,1-DCE) in groundwater at concentrations greater than the Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs). The Buyer intends to use the Property as a commercial call center (nonresidential use).

Provide a general description of proposed remediation measures.

The Remediator proposes to meet a Site-Specific Standard using pathway elimination.

Remediation Standard(s) planned (if known at this time):

- | | | |
|---|--|---|
| <input type="checkbox"/> Unknown at this time | <input type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Background Contaminants: | <input type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Statewide Health - Residential Contaminants: | <input type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Statewide Health - Non-Residential Contaminants: | <input checked="" type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Site Specific Contaminants: Cadmium and 1,1,1-DCE | <input type="checkbox"/> Soil | <input checked="" type="checkbox"/> Groundwater |
| <input type="checkbox"/> Special Industrial Area* Contaminants: | <input type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |

*NOTE: Specific standard or Special Industrial Area require a 30-day municipal comment period
 Remediator / Property Owner / Consultant. Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Remediator
 Contact Person/Title Philip Bishop, Vice President eFACTS Client ID* None known
 Relationship to Site Remediator Client Type* Limited Partnership
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number 412-967-4661 Email Address PBishop@echorealty.com
 Company Name 35th Strouss Associates EIN or Federal ID # _____
 Address (street, city, state, zip) 701 Alpha Drive, 1st Floor, Pittsburgh, PA 15238-2820

Property Owner
 Contact Person/Title Same as Remediator (entering Buyer/Seller Agreement) eFACTS Client ID* Same as Remediator
 Relationship to Site Same as Remediator Client Type* Same as Remediator
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number Same as Remediator Email Address Same as Remediator
 Company Name Same as Remediator EIN or Federal ID # Same as Remediator
 Address (street, city, state, zip) Same as Remediator

Consultant
 Contact Person/Title Jennifer A. Ewing, P.G. eFACTS Client ID* Not Applicable
 Relationship to Site Consultant Client Type* Corporation
 (e.g. owner, remediator, participant in cleanup, consultant, etc.)
 Phone Number 412-429-2324 Email Address jewing@cecinc.com
 Company Name Civil & Environmental Consultants, Inc. EIN or Federal ID # Not Applicable
 Address (street, city, state, zip) 333 Baldwin Road, Pittsburgh, PA 15205

*Include eFACTS Client ID (if known) - "Client Types" below:

| | | |
|--------------------------|-------------------------------|---------------------|
| Association/Organization | Limited Liability company | Partnership-General |
| Authority | Limited Liability Partnership | Partnership-Limited |
| County | Municipality | School District |
| Estate/Trust | Non-Pennsylvania Government | Sole Proprietorship |
| Federal Agency | Other (Non-Government) | State Agency |
| Individual | Pennsylvania Corporation | |

Preparer of Notice of Intent to Remediate
 Name Jennifer A. Ewing, P.G. Title Project Manager
 Phone Number 412-429-2324 Email Address jewing@cecinc.com
 Company Name Civil & Environmental Consultants, Inc. eFACTS Client ID Not Applicable
 Address (street, city, state, zip) 333 Baldwin Road, Pittsburgh, PA 15205



Civil & Environmental Consultants, Inc.

July 7, 2016

CERTIFIED MAIL 7015 3430 0001 1715 2301

Ms. Patricia Logo
Township Manager
North Versailles Township
1401 Greensburg Avenue
North Versailles, PA 15137

Dear Ms. Logo:

Subject: Municipal Notification
1810 Lincoln Highway
North Versailles, Pennsylvania 15137
North Versailles Township, Allegheny County
CEC Project 160-962.0001

The Land Recycling and Environmental Remediation Standards Act (Act 2) requires that a Notice of Intent to Remediate (NIR) be provided to the municipality in which the site is located. Act 2 also provides that when a site is a Special Industrial Area or is being remediated to a Site-Specific Standard, the municipality is afforded a 30-day comment period. In accordance with the provisions of the Act, we are formally notifying you of our intent to remediate the subject site. A copy of the Notice of Intent to Remediate, which was sent to the Department of Environmental Protection (DEP), is enclosed. This notice will be published in the Pennsylvania Bulletin, and a summary of the notice will appear in a local newspaper.

Publication of this notice in a local newspaper initiates the 30-day public and municipal comment period. During this time, your municipality may request to become involved in the development of the remediation and reuse plans for the site. If the municipality wishes to become involved in this project, please send your comments to Jennifer Ewing, Civil & Environmental Consultants, Inc., 333 Baldwin Road, Pittsburgh, PA 15205.

Please call us at 412-429-2324 if you have questions or comments regarding this notification.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Jennifer A. Ewing, P.G.
Project Manager


Mary J. Guinee
Vice President

Enclosure

cc: Phil Bishop, P.E., 35th Strouss Associates (via email)

160-962.0001-L-NIR-7.6.16P

NEWSPAPER NOTIFICATION

Notice of an Intent to Remediate to an Environmental Standard (Sections 302(e)(1)(ii), 303(h)(1)(ii), 304(n)(1)(i), and 305(c)(1))

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2., notice is hereby given that 35th Strouss Associates has submitted to the Pennsylvania Department of Environmental Protection a Notice of Intent to Remediate a site located at 1810 Lincoln Highway in North Versailles (North Versailles Township), Allegheny County, PA 15137. This Notice of Intent to Remediate states that the site was an electrical brush manufacturing facility between 1956 and 1989. The site has been found to be contaminated with cadmium and 1,1-dichloroethene (1,1-DCE) which has contaminated groundwater on the site. The proposed remediation measures will be pathway elimination. The proposed future use of the property will be non-residential for commercial uses.

35th Strouss Associates plans to use the site-specific standard at the site. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until August 7, 2016, North Versailles Township may submit a request to 35th Strouss Associates to be involved in the development of the remediation and reuse plans for the site. North Versailles Township may also submit a request to 35th Strouss Associates during this 30-day comment period to develop and implement a public involvement plan. Copies of these requests and of any comments should also be submitted to the Department of Environmental Protection at Environmental Cleanup Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222.



Civil & Environmental Consultants, Inc.

333 Baldwin Road
Pittsburgh, Pennsylvania 15205
(412) 429-2324 Toll Free (800) 365-2324

FAX (412) 429-2114

TO David E. Eberle
Environmental Cleanup Program Manager
PADEP, Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

LETTER OF TRANSMITTAL

| | | | |
|-----------|---|-------------|--------------|
| DATE | Jul-15-2016 | PROJECT NO. | 160-962.0001 |
| ATTENTION | David E. Eberle | | |
| RE: | Addendum - Notice of Intent to Remediate (NIR) 35 th Strouss Associates 1810 Lincoln Highway North Versailles, Pennsylvania 15137 North Versailles Twp., Allegheny County | | |

WE ARE SENDING YOU ATTACHED SEPARATE COVER VIA Fed Ex 2-Day THE FOLLOWING ITEMS:

SHOP DRAWINGS PRINTS PLANS SAMPLES SPECIFICATIONS

COPY OF LETTER CHANGE ORDER

| COPIES | DATE | NO. | DESCRIPTION |
|--------|--------------------------|-----|---|
| 1 | Signed Jul-09-2016 | - | Certified Mail Receipt (Proof of Municipality Receipt of the Notification Letter) |
| 1 | Published Jul-08-2016 | - | Proof of Newspaper Publication |
| | | | |

WE ARE SENDING YOU FOR APPROVAL APPROVAL AS SUBMITTED RESUBMIT _____ COPIES FOR APPROVAL

FOR YOUR USE APPROVED AS NOTED SUBMIT _____ COPIES FOR DISTRIBUTION

AS REQUESTED RETURNED FOR CORRECTIONS RETURN _____ PRINTS

FOR REVIEW AND COMMENT _____

FOR BIDS DUE: PRINTS RETURNED AFTER LOAN TO US

REMARKS The enclosed documents are being provided on behalf of 35th Strouss Associates to complete the Notice of Intent to Remediate (NIR) for the above-referenced site that was submitted to your attention on July 7, 2016.

COPY TO Phil Bishop, P.E., 35th Strouss Associates
(via email)

SIGNED

Evan Elliott, PADEP (via email,
evelliott@pa.gov)

Jennifer A. Ewing
Jennifer A. Ewing, P.G.

7015 3430 0001 1715 2301

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Adult Signature Restricted Delivery \$ _____

Postage \$ 1.15

Total Postage and Fees \$ 7.15

MS PATRICIA LOGO
 NORTH VERSAILLES TOWNSHIP
 1401 GREENSBURG AVENUE
 NORTH VERSAILLES PA 15137

PS Form 3800, April 2015 PSN 7530-02-000-9053 See Reverse for Instructions

J EWING
160-967-0001
07/07/2016

SENDER: COMPLETE THIS SECTION

- Complete Items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MS PATRICIA LOGO
 NORTH VERSAILLES TOWNSHIP
 1401 GREENSBURG AVENUE
 NORTH VERSAILLES PA 15137

9590 9402 1316 5285 5508 85

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee

B. Received by (Printed Name) _____ C. Date of Delivery 7-9-16

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 If YES, enter delivery address below: No

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Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

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TRIB TOTAL MEDIA

LEGAL ADVERTISING

Proof of Publication of Notice in The Tribune-Review
Under the Act of July 9, 1976, P.L. 877, No. 160

Commonwealth of Pennsylvania)
County of Allegheny) SS:

DALYNN SCIOTTO, Multi-Media Classified Advertising Manager of Trib Total Media, Inc., a corporation of the Commonwealth of Pennsylvania with place of business in Pittsburgh, Allegheny County, Pennsylvania (and general circulation in Allegheny County and Westmoreland County), being duly sworn, deposes and says that the Tribune-Review is a daily newspaper circulated in Southwestern Pennsylvania. Said corporation was established in the year 1924. A copy of the printed notice of publication is attached hereto exactly as the same was printed and published in the regular editions of the said daily newspaper on the following dates, viz: LEGAL# 6340347, RE: PADEP NOTICE OF INTENT TO REMEDIATE; 8TH DAY OF JULY, 2016.

Affiant further deposes that s/he is an officer duly Authorized by the Trib Total Media, Inc., publisher of the Tribune-Review, to verify the foregoing statement under oath and also declares that affiant is not interested in the subject matter of the aforesaid notice of publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.

[Signature]
Classified Advertising Manager,
Trib Total Media, Inc.

Sworn to and subscribed before me this
8TH day of JULY, 2016

[Signature]
Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
JoAnn M. Callahan, Notary Public
City of Greensburg, Westmoreland County
My Commission Expires July 1, 2020
MEMBER PENNSYLVANIA ASSOCIATION OF NOTARIES

Statement of Advertising Costs

JENNIFER A. EWING
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
333 BALDWIN ROAD
PITTSBURGH, PA 15205

To Trib Total Media, Inc.
For Publishing the notice or advertisement attached
hereto on the above stated dates \$223.60
Probating Same \$ 0
Total \$ 223.60

Publisher's Receipt for A

The Trib Total Media, Inc., publisher of the
acknowledges a receipt of the aforesaid advertising and pu
fully paid.

Trib Total Media Inc., Publisher
of the Tribune-Review, a Daily Newspaper.

By _____

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2, notice is hereby given that 35th Strouss Associates has submitted to the Pennsylvania Department of Environmental Protection a Notice of Intent to Remediate a site located at 1810 Lincoln Highway in North Versailles (North Versailles Township), Allegheny County, PA 15137. This Notice of Intent to Remediate states that the site was an electrical brush manufacturing facility between 1956 and 1989. The site has been found to be contaminated with cadmium and 1,1-dichloroethene (1,1-DCE) which has contaminated groundwater on the site. The proposed remediation measures will be pathway elimination. The proposed future use of the property will be non-residential for commercial uses. 35th Strouss Associates plans to use the site-specific standard at the site. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until August 7, 2016, North Versailles Township may submit a request to 35th Strouss Associates to be involved in the development of the remediation and reuse plans for the site. North Versailles Township may also submit a request to 35th Strouss Associates during this 30-day comment period to develop and implement a public involvement plan. Copies of these requests and of any comments should also be submitted to the Department of Environmental Protection at Environmental Cleanup Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. 6340347(7-8-16)

Appendix B

APPENDIX B
FEBRUARY 2016
PHASE II ENVIRONMENTAL SITE ASSESSMENT



3925 Reed Boulevard • Suite 400 • Murrysville, PA 15668-1848
(724) 733-7000 • (724) 733-1003 FAX • www.amergeo.com

February 17, 2016

VIA E-MAIL

RBE Norco – JFH I, LLC
Realty Bancorp Equities, LLC
c/o Mr. Douglas Jacobsen
JH Capital Group
2100 Burbank Boulevard, Suite 330
Woodland Hills, California 91367

Re: Summary Report
Phase II Environmental Site Assessment
1810 Lincoln Highway Property
North Versailles, Pennsylvania
AGI Project No. 15106-003

Dear Mr. Jacobsen:

American Geosciences, Inc., (AGI) is pleased to submit this summary report of the Phase II Environmental Site Assessment (Phase II ESA) activities that were performed at the 1810 Lincoln Highway property (site) located in North Versailles, Pennsylvania. The following summarizes the available background information, the Phase II ESA activities that were completed, and the results of the assessment.

Background

The property is located at 1810 Lincoln Highway in North Versailles, Allegheny County, Pennsylvania. The property is comprised of two parcels (Allegheny County tax parcels 750-J-253 [~0.12 acres] and 750-J-263 [~4.06 acres]) totaling approximately 4.18 acres improved with one partial 2-story, approximately 50,000 square foot building. Figure 1 (Site Layout and Sample Locations) depicts the property.

Based upon historical sources of information, the subject property was most recently used as a call center for prescription drug sales by Medco (now Express Scripts) beginning in approximately 2008. Call center operations at the facility ceased in 2014 and the facility has since been vacant.

According to historical records and interviews, the subject property was used for the following purposes in the past:

- From approximately 1989 to 2008 Flex Rx Pharmacy, later Merck Medco, operated a prescription drug distribution center at the property.
- From approximately 1956 to 1989 Ringsdorff, later Transtech, operated an electrical brush manufacturing facility at the property. The original building was constructed

circa 1956 and according to aerial photographs was expanded in 1967 and again in the late 1970s/early 1980s timeframe. Additional parking lots were developed to the west of the building in the early 1990s, and again in the early 2000s timeframe.

- Prior to 1956 the property was used for agricultural purposes.

Investigation Objective

Phase II ESA activities were performed at the site to provide you with additional investigation activities to further define the extent of impacts identified during a previous Phase II at the property. The assessment was not intended to determine the location of any tanks or other subsurface items that may be present at the site, or to constitute a complete site characterization under Pennsylvania's Land Recycling and Environmental Remediation Standards Act (Act 2). In addition, it is unlikely that this assessment would identify relatively localized impacts that may be present at the site and unrelated to the former historical use of the site. However, the activities conducted as part of this investigation can be used to help fulfill the requirements of an Act 2 at the property.

Field Investigation Activities

AGI completed Phase II ESA activities on January 25 and January 26, 2016 in general accordance with our approved Statement-of-Work (SOW) dated January 8, 2016. These activities included collecting and analyzing soil, groundwater, and vapor samples from soil borings advanced and vapor pins installed at the site.

In accordance with the SOW, seven soil borings (GP-01 through GP-07) were advanced at the site. As shown on Figure 1 (Site Layout and Sampling Locations), borings were advanced in identified areas of environmental interest and to provide coverage of the site. In addition, two vapor pins (VP-01 and VP-02) were installed in the eastern and western portions of the building located on-site.

Direct-push soil sampling equipment was used to advance the soil borings and to collect soil samples. All of the soil borings were advanced to sample tool refusal, which ranged from 2 feet below ground surface (bgs) at GP-07 to 28 feet bgs at GP-04. Groundwater accumulated in borings GP-02, GP-05, and GP-06.

Soil samples were collected continuously from each of the soil borings in dedicated disposable acetate sleeves. The samples were visually inspected and field-screened with a photoionization detector (PID) to evaluate the presence of obvious contamination. Based on the results of the field screening and pertinent field observation (obvious visual or olfactory evidence of impact) soil samples were selected from each boring for analysis. Sample aliquots collected for VOC analyses were collected in a manner that complies with U.S. EPA Method 5035 sampling protocols.

The soil samples collected during this investigation were submitted to Pace Analytical Services (Pace), a Pennsylvania-registered environmental laboratory, under chain-of-custody (COC) procedures. The samples from the soil borings were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) metals.

Dedicated disposable temporary well materials (i.e., 1-inch-diameter machine-slotted screen and casing) were placed in soil borings GP-02, GP-05, and GP-06 to facilitate collecting groundwater samples. Groundwater did not accumulate in any of the other borings. Therefore, groundwater samples were collected from only GP-02, GP-05, and GP-06 using a peristaltic pump and dedicated, disposable tubing. Samples for metals analysis were field-filtered through 0.45 micron filters. The groundwater samples were submitted to the laboratory under COC procedures for analysis of TCL VOCs and dissolved RCRA metals.

The sub-slab vapor samples were collected into certified clean sample tubes provided by the laboratory. The tubes were attached to a syringe to collect air samples at a rate of approximately 100 milliliters per minute. The vapor points consisted of Vapor Pins™ manufactured by Cox-Colvin & Associates, Inc. The Vapor Pins were installed and integrity tested following the manufacturer's instructions. Prior to collecting the samples one volume of air from the vapor sampling points and tubing connected to the points was purged. The vapor points were purged with a syringe which was then connected to a PID and measurements were recorded. After purging, the vapor point was sampled.

The sub-slab vapor samples collected during this investigation were submitted to Vaportech Services, Inc., a Pennsylvania-registered environmental laboratory, under chain-of-custody (COC) procedures. The sub-slab vapor samples collected from VP-01 and VP-02 were analyzed for VOCs by Method TO-17.

Results

Subsurface material encountered in the borings consisted primarily of fill material and silt underlain by weathered bedrock. PID field screening values, which ranged from non-detect to 2.7 parts per million (ppm) instrument units, did not identify obviously impacted soil in the soil borings. Therefore, soil samples for laboratory analysis were collected from immediately above the soil/groundwater interface at borings GP-02, GP-05, and GP-06, and from near the bottom of borings GP-01, GP-03, and GP-04. Samples of the fill material from the site were also collected from borings GP-03 and GP-04. Soil boring logs are included as Attachment 1.

The laboratory report and COC documentation for the soil, groundwater, and sub-slab vapor samples are included as Attachment 2.

Soil Sample Analytical Results

The soil sample analytical results were compared to the current Land Recycling and Environmental Remediation Standards Act (Act 2) Statewide Health Standard (SHS), nonresidential medium specific concentrations (MSCs) and nonresidential volatilization to indoor air screening (VIAS) values and are summarized on Table 1 (Soil Sample Analytical Results Summary). Only those constituents detected above laboratory reporting limits are shown on Table 1.

The following information summarizes the analytical results of the soil samples:

- Various dissolved metals were detected in samples collected from all seven of the soil borings. However, all concentrations were below their respective nonresidential MSCs and VIASVs.
- Several PAH constituents were detected in the samples collected from borings GP-04 through GP-07. However, all concentrations were below their respective nonresidential MSCs and VIASVs.
- Various VOCs were detected in the samples collected from borings GP-02, GP-03, GP-04, GP-05, and GP-07. However, all concentrations were below their respective nonresidential MSCs and VIASVs.

Groundwater Sample Analytical Results

The groundwater sample analytical results were compared to the current Act 2 SHS, nonresidential used aquifer MSCs and nonresidential groundwater VIAS values and are summarized on Table 2 (Groundwater Sample Analytical Results Summary). Only those constituents detected above laboratory reporting limits are shown on Table 2.

The following information summarizes the analytical results of the groundwater sample:

- Cadmium was detected at a concentration of 12.3 µg/l in the sample collected from GP-05. This concentration exceeds the nonresidential used aquifer MSC of 5.0 µg/l.
- The chlorinated solvent 1,1-Dichloroethene (1,1-DCE) was detected at a concentration of 17.8 µg/l in the sample collected from GP-05. This concentration exceeds the nonresidential used aquifer MSC of 7.0 µg/l.
- Barium, 1,1,1-Trichloroethane, and 1,1-Dichloroethane were also detected in the groundwater samples collected from borings GP-02, GP-05, and GP-06. However, all concentrations were below their respective nonresidential MSCs and VIASVs.

Sub-slab Vapor Analytical Results

The sub-slab soil vapor sample analytical results were compared to Act 2 SHS nonresidential Sub-Slab Soil Gas screening values (VIASV). Several VOC constituents were detected in the vapor samples from both VP-01 and VP-02. However, none of the concentrations exceeded their respective nonresidential Sub-Slab soil gas screening values. Table 3 (Table 3 – Sub-Slab Vapor Sample Analytical Results Summary) summarizes the results.

Conclusions

The results of the Phase II ESA identified dissolved metals and chlorinated solvent impact in groundwater on the downgradient side of the building at the site (Boring GP-05). The source of the impact is most likely due to the historical cleaning, degreasing, pressuring washing, etc. that have taken place at the site. Cadmium and the chlorinated solvent 1,1-DCE were identified at concentrations above their respective nonresidential used aquifer MSCs.

Chlorinated solvents were also detected in sub-slab vapor samples collected from VP-01 and VP-02. Although all concentrations were below VIAS screening values at VP-01 and VP-02, there is a potential that vapor concentrations would be higher near where impacted groundwater was observed at boring GP-05.

Based upon the results of this Phase II ESA, additional investigation appears to be necessary to further evaluate the nature and extent of identified environmental impact at the property.

Limitations

This report was prepared in keeping with accepted standards of practice for preparation of limited investigations and using AGI's professional judgment. Because of limitations related to subsurface conditions, contaminant characteristics and behavior, and reasonable time and financial constraints associated with the project, the findings and conclusions of the investigation cannot be considered scientific certainties, but rather our opinions considering the limited data obtained during the course of the preliminary environmental investigation. Therefore, AGI makes no claims as to the presence or absence of contamination at the site other than at those specific locations where samples, if any, were collected and analyzed for any specific compounds on the date(s) sampled. No other warranties, either expressed or implied, are made herein.

Intellectual Property

ALL RIGHTS RESERVED. This report contains intellectual property and material protected under International and Federal Copyright Laws and Treaties. Any unauthorized reprint or use of this material is prohibited. No part of this report may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system or otherwise used without express written consent from American Geosciences, Inc.

Mr. Douglas Jacobsen
February 17, 2016
Page 6

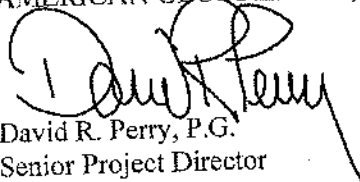
User Reliance

The contents of this document cannot be used or relied upon by any party other than the client, RBE Norco – JFH I, LLC, and Realty Bancorp Equities, LLC, without the express written consent of American Geosciences, Inc.

If you have any questions regarding this Phase II ESA, please contact me at (724) 733-7000.

Respectfully submitted,

AMERICAN GEOSCIENCES, INC.



David R. Perry, P.G.
Senior Project Director

brr/tdw

Enclosures: Table 1 – Soil Sample Analytical Results Summary
Table 2 – Groundwater Sample Analytical Results Summary
Table 3 – Sub-Slab Vapor Sample Analytical Results Summary
Figure 1 - Site Layout and Sample Locations
Attachment 1 - Soil Boring Logs
Attachment 2 - Laboratory Analytical Report

TABLES

Table 1
Soil Sample Analytical Results Summary
1810 Lincoln Highway
North Versailles, Pennsylvania

| Constituent ⁽¹⁾ | Reporting Units | Act 2 ⁽²⁾ Statewide Health Standard MSCs ⁽³⁾ and VIASVs ⁽⁴⁾ | | | | Sample station, date sampled, field sample ID, and depth sampled in feet below ground surface | | | | | | | |
|--|-----------------|--|-------------------------------|---|-------------|---|---------------|---------------|-------------|---------------|---------------|---------------|-------------|
| | | Nonresidential | | | | GP-01 | GP-02 | GP-03 | GP-03 | GP-04 | GP-05 | GP-06 | GP-07 |
| | | Direct Contact (0-2 ft) MSCs | Direct Contact (2-15 ft) MSCs | Soil to Groundwater ⁽⁵⁾ MSCs | VIAS Values | GP-01:11-13:S | GP-02:19-21:S | GP-03:20-22:S | GP-03:6-8:S | GP-04:21-23:S | GP-05:11-12:S | GP-06:14-16:S | GP-07:1-2:S |
| | | | | | | 1/26/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 | 1/25/2016 |
| | | | | | 11 - 13 ft | 19 - 21 ft | 20 - 22 ft | 6 - 8 ft | 21 - 23 ft | 11 - 12 ft | 14 - 16 ft | 1 - 2 ft | |
| Metals | | | | | | | | | | | | | |
| Arsenic | mg/kg | 53 | 190000 | 29 | N/A | 0.63 | 5.2 | 2.8 | 0.81 | 0.62 | 6.8 | 9.9 | 8.7 |
| Barium | mg/kg | 190000 | 190000 | 8200 | N/A | 68.7 | 96.3 | 62.7 | 216 | 148 | 32.6 | 67.4 | 103 |
| Cadmium | mg/kg | 1400 | 190000 | 38 | N/A | <0.20 | 0.31 | <0.18 | <0.33 | <0.36 | 2 | <0.22 | 1.1 |
| Chromium | mg/kg | 190000 | 190000 | 190000 | N/A | 26.5 | 19.6 | 20 | 2.9 | 2.9 | 19.9 | 45.5 | 309 |
| Lead | mg/kg | 1000 | 190000 | 450 | N/A | 14.4 | 20.4 | 13.1 | 2.1 | 0.76 | 14.3 | 15.9 | 57.1 |
| Selenium | mg/kg | 14000 | 190000 | 26 | N/A | <0.53 | <0.59 | <0.48 | 1.7 | 1.2 | <0.52 | <0.59 | <0.69 |
| Silver | mg/kg | 14000 | 190000 | 84 | N/A | <0.40 | <0.44 | <0.36 | <0.65 | <0.73 | <0.39 | <0.44 | 1.4 |
| Polynuclear Aromatic Hydrocarbons | | | | | | | | | | | | | |
| Anthracene | mg/kg | 190000 | 190000 | 350 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.0085 | <0.0069 | <0.14 |
| Benzo(a)anthracene | mg/kg | 110 | 190000 | 320 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.015 | 0.0084 | 0.23 |
| Benzo(a)pyrene | mg/kg | 11 | 190000 | 46 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.013 | 0.012 | 0.15 |
| Benzo(b)fluoranthene | mg/kg | 110 | 190000 | 170 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.02 | 0.023 | 0.33 |
| Benzo(g,h,i)perylene | mg/kg | 170000 | 190000 | 180 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.012 | 0.011 | 0.16 |
| Benzo(k)fluoranthene | mg/kg | 1100 | 190000 | 610 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.009 | 0.011 | 0.16 |
| Chrysene | mg/kg | 11000 | 190000 | 230 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.015 | 0.026 | 0.18 |
| Fluoranthene | mg/kg | 110000 | 190000 | 3200 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | 0.017 | 0.033 | 0.043 | 0.2 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 110 | 190000 | 28000 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | 0.0077 | 0.0073 | <0.14 |
| Phenanthrene | mg/kg | 190000 | 190000 | 10000 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | 0.012 | 0.018 | 0.019 | <0.14 |
| Pyrene | mg/kg | 84000 | 190000 | 2200 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | 0.014 | 0.028 | 0.04 | 0.25 |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | mg/kg | 10000 | 10000 | 20 | 170 | <0.0043 | <0.0036 | <0.0040 | <0.011 | <0.0062 | 0.19 | <0.0036 | <0.0041 |
| 1,1-Dichloroethane | mg/kg | 1400 | 1600 | 16 | 2.7 | <0.0043 | <0.0036 | <0.0040 | <0.011 | <0.0062 | 0.028 | <0.0036 | <0.0041 |
| 1,1-Dichloroethene | mg/kg | 10000 | 10000 | 0.7 | 7.6 | <0.0043 | <0.0036 | <0.0040 | <0.011 | <0.0062 | 0.2 | <0.0036 | <0.0041 |
| 2-Butanone (MEK) | mg/kg | 10000 | 10000 | 400 | 14000 | <0.0086 | <0.0072 | <0.0081 | <0.022 | 0.02 | <0.0084 | <0.0073 | <0.0081 |
| Acetone | mg/kg | 10000 | 10000 | 9200 | 110000 | <0.0086 | 0.033 | <0.0081 | 0.056 | 0.15 | 0.031 | <0.0073 | 0.094 |
| Naphthalene | mg/kg | 56000 | 190000 | 25 | N/A | <0.0068 | <0.0071 | <0.0068 | <0.0096 | <0.0088 | <0.0071 | <0.0069 | 0.18 |

Footnotes:

⁽¹⁾ Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of constituents analyzed.

⁽²⁾ Land Recycling and Environmental Remediation Standards Act.

⁽³⁾ Medium-specific concentration.

⁽⁴⁾ Volatilization to Indoor Air Screening Value. Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard.

⁽⁵⁾ Total dissolved solids less than or equal to 2,500 milligrams per liter

mg/kg - milligrams per kilogram.

N/A - Not applicable.

NOC - Not of concern.

NA - Not analyzed for constituent.

Concentrations **BOLDED** are above either or both the nonresidential Used Aquifer MSC.

Concentrations UNDERLINED are above either or both the nonresidential Volatilization to Indoor Air Screening Value.

Table 2
 Groundwater Sample Analytical Results Summary
 Phase II Environmental Site Assessment
 1810 Lincoln Highway
 North Versailles, Pennsylvania

| Constituent ⁽¹⁾ | Reporting Units | Act 2 ⁽²⁾ Statewide Health Standard MSCs ⁽³⁾ and VIASVs ⁽⁴⁾ | | Sample station, field sample ID, and date sampled | | |
|-----------------------------------|-----------------|--|-----------------------------|---|--------------------------------------|--------------------------------------|
| | | Nonresidential Used Aquifer MSC (TDS ≤2500 mg/l) | Nonresidential VIASV Values | GP-02 GP-02:201601:W 1/26/2016 | GP-05 GP-05:201601:W 1/26/2016 | GP-06 GP-06:201601:W 1/26/2016 |
| Metals | | | | | | |
| Barium | ug/l | 2000 | N/A | 69 | 18.9 | 73.6 |
| Cadmium | ug/l | 5 | N/A | <3.0 | 12.3 | <3.0 |
| Volatile Organic Compounds | | | | | | |
| 1,1,1-Trichloroethane | ug/l | 200 | N/A | <1.0 | 55 | <1.0 |
| 1,1-Dichloroethane | ug/l | 160 | 26000 | <1.0 | 13.3 | 1.4 |
| 1,1-Dichloroethene | ug/l | 7 | 220000 | <1.0 | 17.8 | <1.0 |

Footnotes:

(1) Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of constituents analyzed.

(2) Land Recycling and Environmental Remediation Standards Act.

(3) Medium-specific concentration.

ug/l - micrograms per liter

N/A - Not applicable.

Concentrations depicted in **BOLD** exceed the nonresidential used aquifer MSC.

Table 3
 Sub-Slab Vapor Sample Analytical Results Summary
 1810 Lincoln Highway Property
 North Versailles, Pennsylvania

| Constituent ⁽¹⁾ | Units | Sub-Slab Soil Gas Screening Values (VLASV) ⁽²⁾ | | Sample station, sample ID, date collected, and concentration detected | |
|----------------------------|-------------------|---|------------------------|---|----------------|
| | | Proposed ⁽³⁾ | Current ⁽³⁾ | VP-01 | VP-02 |
| | | Nonresidential | Nonresidential | VP-01:201601:V | VP-02:201601:V |
| 1,1,1-Trichloroethane | ug/m ³ | 2,800,000 | 61,000 | 1206.4 | 322.2 |
| 1,1-Dichloroethane | ug/m ³ | 9,800 | 500 | 113.8 | <10 |
| 1,1-Dichloroethene | ug/m ³ | 110,000 | 5,800 | 317.3 | 11.3 |
| Acetonitrile | ug/m ³ | 34,000 | 1,700 | <10 | 10.4 |
| Benzene | ug/m ³ | 2,000 | 110 | 23.9 | 21.9 |
| Carbon Disulfide | ug/m ³ | 390,000 | 20,000 | <10 | 22.9 |
| m-Xylene | ug/m ³ | NE | NE | <10 | 14 |
| Tetrachloroethene | ug/m ³ | 22,000 | 1,400 | 13.7 | 10.1 |
| Toluene | ug/m ³ | 2,800,000 | 12,000 | 19.5 | 21.7 |
| Trichloroethene | ug/m ³ | 1,100 | 480 | <10 | 68.4 |

Footnotes:

- ⁽¹⁾ Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of analyzed constituents.
- ⁽²⁾ Table 3. Near-Source Soil Gas Statewide Health Standard Vapor Intrusion Screening Values (SV_{SG}), Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under Act 2. (Draft July 25, 2015).
- ⁽³⁾ Calculated per Land Recycling Program Technical Guidance Manual, Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil Under the Act 2 Statewide Health Standard (Effective Jan. 24, 2004), page 53.
- ⁽⁴⁾ PADEP current and proposed vapor intrusion screening values for soil gas have been adjusted by 1/10th in accordance with PADEP vapor intrusion guidance procedures under a combination of standards.

NE - None established.

FIGURE



FIGURE 1
 SITE LAYOUT AND SAMPLE LOCATIONS
 PHASE II ENVIRONMENTAL SITE ASSESSMENT
 LINCOLN HIGHWAY PROPERTY
 1810 LINCOLN HIGHWAY
 NORTH VERSAILLES, ALLEGHENY COUNTY
 PENNSYLVANIA

PREPARED FOR:
 REALTY BANCORP EQUITIES, LLC
 WOODLAND HILLS, CALIFORNIA

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EMERGENCY GENERATOR WITH DIESEL AST
- FORMER COMPACTOR & SHREDDER AREA
- PAD-MOUNTED TRANSFORMER
- SOIL BORING
- SUB-SLAB AIR SAMPLE LOCATION



COMMENTS & NOTES:

SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRIID, IGN, IGP, SWSSTOPO, AND THE GIS USER COMMUNITY

SITE BOUNDARIES: "ALLEGHENY COUNTY PARCELS", ALLEGHENY COUNTY DIVISION OF COMPUTER SERVICES GEOGRAPHIC INFORMATION SYSTEMS GROUP, 2013.

STREET NAMES: "TIGERLINE SHAPEFILE, 2014, ALLEGHENY COUNTY, PA, ALL LINES", U.S. DEPARTMENT OF COMMERCE, U.S. CENSUS BUREAU, GEOGRAPHY DIVISION, 2012.

PORTIONS OF THIS FIGURE ARE PRESENTED IN COLOR. THEREFORE BLACK AND WHITE COPIES MAY NOT DEPICT ALL INFORMATION AS PRESENTED ON THE ORIGINAL DOCUMENT.



3925 REED BOULEVARD, SUITE 400
 MURRYSVILLE, PA 15668
 724-733-7000
 www.amergeo.com

ATTACHMENT 1
SOIL BORING LOGS

BORING NUMBER GP-01

PAGE 1 OF 1



American Geosciences, Inc.
3925 Reed Blvd., Suite 400
Murrysville, PA 15668
Telephone: 724.733.7000
Fax: 724.733.1003

CLIENT RBE Norco - JFH I, LLC PROJECT NAME 1810 Lincoln Highway Property
 PROJECT NUMBER 15106-003 PROJECT LOCATION 1810 Lincoln Highway
 DATE STARTED 1/26/16 COMPLETED 1/26/16 GROUND ELEVATION _____ HOLE SIZE 2
 DRILLING CONTRACTOR VaporTech Services, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Direct Push AT TIME OF DRILLING ---
 LOGGED BY B. Rupp CHECKED BY _____ AT END OF DRILLING ---
 AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|-------|----------|-------------|---|--------------------|
| 0.0 | | | | | | FILL; Slag | |
| 2.5 | SS 1 | 100 | | ML | | (ML) Brown SILT; Some Clay; Rock Fragments | PID = 0.5 |
| 5.0 | SS 2 | 150 | | ML | | (ML) Brown SILT; Weathered Bedrock; Rock Fragments | PID = 0.4 |
| 7.5 | SS 3 | 125 | | ML | | | PID = 0.4 |
| 10.0 | SS 4 | 113 | | ML | | | PID = 0.6 |
| 12.5 | SS 5 | 133 | | ML | | | |
| 13.0 | | | | | | Refusal at 13.0 feet. Bottom of borehole at 13.0 feet. | |

*Collected
GP-01:11-13.S

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BORING NUMBER GP-02
PAGE 1 OF 1



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Murrysville, PA 15668
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CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106-003
DATE STARTED 1/25/16 COMPLETED 1/25/16
DRILLING CONTRACTOR VaporTech Services, Inc.
DRILLING METHOD Direct Push
LOGGED BY B. Rupp CHECKED BY _____

PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ HOLE SIZE 2
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|-------|----------|-------------|---|--------------------|
| 0 | | | | | | FILL; Slag; Damp | |
| 1 | SS 1 | 100 | | | | | PID = 0.1 |
| 4 | | | | | | FILL; Slag, Gravel, and Sand; Damp | |
| 5 | SS 2 | 100 | | | | | PID = 0.4 |
| 10 | SS 3 | 100 | | | | | PID = 0.2 |
| 11 | | | | ML | | (ML) Dark Brown Clayey SILT | |
| 12 | | | | CL | | (CL) Brown Silty CLAY to Clayey SILT | |
| 14 | SS 4 | 100 | | | | (ML) Brown SILT; Some Clay | PID = 0.3 |
| 15 | | | | | | | |
| 18 | SS 5 | 133 | | | ML | | PID = 0.2 |
| 20 | SS 6 | 200 | | | | | PID = 0.2 |
| 21 | | | | | | Refusal at 21.0 feet. Bottom of borehole at 21.0 feet. | |

*Collected GP-02:19-21:S

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CLIENT RBE Norco - JFH I, LLC
 PROJECT NUMBER 15106-003
 DATE STARTED 1/25/16 COMPLETED 1/25/16
 DRILLING CONTRACTOR VaporTech Services, Inc.
 DRILLING METHOD Direct Push
 LOGGED BY B. Rupp CHECKED BY _____
 PROJECT NAME 1810 Lincoln Highway Property
 PROJECT LOCATION 1810 Lincoln Highway
 GROUND ELEVATION _____ HOLE SIZE 2
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|--------------------------|----------|-------------|---|--------------------|
| 0 | | | | | | FILL; Slag and Gravel | |
| 1 | SS 1 | 100 | | | | | PID = 0.3 |
| 5 | SS 2 | 100 | *Collected GP-03:6-8:S | | | | PID = 0.3 |
| 10 | SS 3 | 100 | | | | | PID = 0.3 |
| 15 | SS 4 | 100 | | | | | PID = 0.2 |
| 15.0 | | | | ML | | (ML) Brown Clayey SILT | |
| 16.0 | | | | | | (ML) Brown SILT; Weathered Bedrock; Refusal at 22' | |
| 20 | SS 5 | 117 | | | | | PID = 0.2 |
| 22.0 | SS 6 | 133 | *Collected GP-03:20-22:S | | | | |
| 22.0 | | | | | | Refusal at 22.0 feet. Bottom of borehole at 22.0 feet. | |

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BORING NUMBER GP-04

PAGE 1 OF 1



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CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106-003
DATE STARTED 1/25/16 COMPLETED 1/25/16
DRILLING CONTRACTOR VaporTech Services, Inc.
DRILLING METHOD Direct Push
LOGGED BY B. Rupp CHECKED BY _____

PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ HOLE SIZE 2
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|--------------------------|----------|-------------|--|--------------------|
| 0 | | | | | | FILL; Slag and Gravel; Damp; Black Material at 22' | |
| 1 | SS 1 | 100 | | | | | PID = 0.1 |
| 5 | SS 2 | 100 | | | | | PID = 0.1 |
| 10 | SS 3 | 69 | | | | | PID = 0.4 |
| 15 | SS 4 | 75 | | | | | PID = 0.1 |
| 20 | SS 5 | 100 | | | | | PID = 0.3 |
| 22.0 | SS 6 | 100 | *Collected GP-04:21-23:S | | ML | (ML) Brown Clayey SILT; Some Sand | PID = 2 |
| 24.0 | | | | | ML | (ML) Brown SILT; Weathered Bedrock | |
| 25 | SS 7 | 100 | | | ML | | PID = 0.2 |
| 28.0 | | | | | | Bottom of borehole at 28.0 feet | |

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CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106-003
DATE STARTED 1/25/16 COMPLETED 1/25/16
DRILLING CONTRACTOR VaporTech Services, Inc.
DRILLING METHOD Direct Push
LOGGED BY B. Rupp CHECKED BY _____
NOTES _____

PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ HOLE SIZE 2
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|-------|----------------------|---|--------------------|
| 0.0 | | | | | FILL | |
| 2.5 | SS 1 | 88 | | | | PID = 0 |
| 3.0 | | | | | (ML) Brown Clayey SILT | |
| 5.0 | SS 2 | 133 | | | (ML) Brown SILT; Some Clay | PID = 0.1 |
| 7.5 | SS 3 | 175 | | | (ML) Brown SILT; Some Sand and Clay; Shale Rock Fragments; Refusal at 12.5' | PID = 0.1 |
| 10.0 | SS 4 | 133 | | | | PID = 1.4 |
| 12.5 | SS 5 | 100 | | | Refusal at 12.5 feet. Bottom of borehole at 12.5 feet. | PID = 2.7 |

*Collected GP-05:11-12:S

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CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106-003
DATE STARTED 1/25/16 COMPLETED 1/25/16
DRILLING CONTRACTOR VaporTech Services, Inc.
DRILLING METHOD Direct Push
LOGGED BY B. Rupp CHECKED BY _____

PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ HOLE SIZE 2
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|-------|----------|-------------|---|--------------------|
| 0.0 | | | | | | FILL; Slag and Gravel | PID = 0.1 |
| 2.5 | SS 1 | 100 | | | | | |
| 4.0 | | | | | | (ML) Brown SILT; Rock Fragments; Greenish Tint at 6'-7' | PID = 0.4 |
| 5.0 | SS 2 | 133 | | ML | | | |
| 7.5 | SS 3 | 125 | | | | FILL; Slag, Gravel, and Silt | PID = 0.2 |
| 10.0 | | | | | | (ML) Brown SILT; Some Clay; Rock Fragments; Damp | PID = 0.1 |
| 12.5 | SS 4 | 100 | | ML | | | |
| 14.0 | | | | | | (ML) Brown SILT; Some Sand and Clay; Rock Fragments; Refusal at 16' | PID = 0.1 |
| 15.0 | SS 5 | 200 | | ML | | | |
| 16.0 | | | | | | Refusal at 16.0 feet. Bottom of borehole at 16.0 feet. | |

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BORING NUMBER GP-07

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CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106-003
DATE STARTED 1/25/16 COMPLETED 1/25/16
DRILLING CONTRACTOR VaporTech Services, Inc.
DRILLING METHOD Direct Push
LOGGED BY B. Rupp CHECKED BY _____

PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ HOLE SIZE 2
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data |
|------------|--------------------|------------|------------------------|----------|-------------|---|--------------------|
| 0 | | | | | | FILL | |
| 1 | SS 1 | 100 | | | | (ML) Brown SILT; Rock Fragments; Refusal at 2' | PID = 0 |
| 2 | | | *Collected GP-07:1-2:S | | ML | Refusal at 2.0 feet. Bottom of borehole at 2.0 feet. | |

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ATTACHMENT 2
LABORATORY ANALYTICAL REPORT

February 10, 2016

Mr. David Parsonage
American Geosciences, Inc.
3925 Reed Boulevard
Suite 400
Murrysville, PA 15668

RE: Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Dear Mr. Parsonage:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2016.
The results relate only to the samples included in this report. Results reported herein conform to the
most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless
otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. David Martincek, American Geosciences, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Pennsylvania Certification IDs
Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

SAMPLE ANALYTE COUNT

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|------------------|----------|-------------------|------------|
| 30171632001 | GP-01:11-13:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632002 | GP-02:19-21:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632003 | GP-03:6-8:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632004 | GP-03:20-22:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632005 | GP-04:21-23:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632006 | GP-05:11-12:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632007 | GP-06:14-16:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| 30171632008 | GP-07:1-2:S | EPA 6010B | CTS | 7 | PASI-PA |
| | | EPA 7471A | KAS | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|------------------|----------|-------------------|------------|
| | | EPA 8270C by SIM | TMK | 18 | PASI-PA |
| | | EPA 8260B | JEW | 46 | PASI-PA |
| | | Dry Weight | CJG | 1 | PASI-PA |
| | | EPA 6010B | CTS | 7 | PASI-PA |
| 30171632009 | GP-02:201601:W | EPA 7470A | KAS | 1 | PASI-PA |
| | | EPA 8260B | JAS | 59 | PASI-PA |
| | | EPA 6010B | CTS | 7 | PASI-PA |
| 30171632010 | GP-05:201601:W | EPA 7470A | KAS | 1 | PASI-PA |
| | | EPA 8260B | JAS | 59 | PASI-PA |
| | | EPA 6010B | CTS | 7 | PASI-PA |
| 30171632011 | GP-06:201601:W | EPA 7470A | KAS | 1 | PASI-PA |
| | | EPA 8260B | JAS | 59 | PASI-PA |

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Sample: GP-01:11-13:S
Lab ID: 30171632001 Collected: 01/26/16 12:40 Received: 01/27/16 15:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|----------|
| 6010 MET ICP | | | | | | | | |
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| Arsenic | 0.63 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7440-38-2 | |
| Barium | 68.7 | mg/kg | 1.3 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7440-39-3 | D6 |
| Cadmium | ND | mg/kg | 0.20 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7440-43-9 | |
| Chromium | 26.5 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7440-47-3 | D6 |
| Lead | 14.4 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.53 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.40 | 1 | 02/04/16 13:30 | 02/05/16 10:48 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| Mercury | ND | mg/kg | 0.097 | 1 | 02/04/16 14:37 | 02/05/16 14:02 | 7439-97-6 | H3 |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 83-32-9 | |
| Acenaphthylene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 208-96-8 | |
| Anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 193-39-5 | |
| Naphthalene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 91-20-3 | |
| Phenanthrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 85-01-8 | |
| Pyrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 129-00-0 | |
| Surrogates | 62 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 321-60-8 | |
| 2-Fluorobiphenyl (S) | 85 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 10:54 | 1718-51-0 | |
| Terphenyl-d14 (S) | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| Acetone | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 67-64-1 | 1c,H3,L1 |
| Benzene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 71-43-2 | 1c,H3 |
| Bromodichloromethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-27-4 | 1c,H3 |
| Bromoform | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-25-2 | 1c,H3 |
| Bromomethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 74-83-9 | 1c,H3 |
| TOTAL BTEX | ND | mg/kg | 0.026 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | | |
| 2-Butanone (MEK) | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 78-93-3 | 1c,H3 |
| Carbon disulfide | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-15-0 | 1c,H3 |
| Carbon tetrachloride | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-15-0 | 1c,H3 |
| Chlorobenzene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 56-23-5 | 1c,H3 |
| Chloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 108-90-7 | 1c,H3 |
| Chloroform | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-00-3 | 1c,H3 |
| | | | | | | | | 1c,H3 |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1838 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632001 Collected: 01/26/16 12:40 Received: 01/27/16 16:15 Matrix: Solid
 Sample: GP-01:11-13:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-------------------------------|-------|--------------|----|----------------|----------------|-------------|-------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| B260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 74-87-3 | 1c,H3 |
| Dibromochloromethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 124-48-1 | 1c,H3 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 95-50-1 | 1c,H3 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 541-73-1 | 1c,H3 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 106-46-7 | 1c,H3 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-34-3 | 1c,H3 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 107-06-2 | 1c,H3 |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 540-59-0 | 1c,H3 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-35-4 | 1c,H3 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 156-59-2 | 1c,H3 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 156-60-5 | 1c,H3 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 78-87-5 | 1c,H3 |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 10061-01-5 | 1c,H3 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 10061-02-6 | 1c,H3 |
| Ethylbenzene | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 100-41-4 | 1c,H3 |
| 2-Hexanone | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 591-78-5 | 1c,H3 |
| Methylene Chloride | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-09-2 | 1c,H3 |
| 1-methyl-2-pentanone (MIBK) | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 108-10-1 | 1c,H3 |
| 1-methyl-tert-butyl ether | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 1634-04-4 | 1c,H3 |
| Styrene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 100-42-5 | 1c,H3 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 79-34-5 | 1c,H3 |
| Tetrachloroethene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 127-18-4 | 1c,H3 |
| Toluene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 108-88-3 | 1c,H3 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 71-55-6 | 1c,H3 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 79-00-5 | 1c,H3 |
| Trichloroethene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 79-01-6 | 1c,H3 |
| Vinyl chloride | ND | mg/kg | 0.013 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 75-01-4 | 1c,H3 |
| Xylene (Total) | ND | mg/kg | 0.0086 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 1330-20-7 | 1c,H3 |
| m&p-Xylene | ND | mg/kg | 0.0043 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 179601-23-1 | 1c,H3 |
| o-Xylene | | | | | | | 95-47-6 | 1c,H3 |
| Surrogates | | | | | | | | |
| Toluene-d8 (S) | 95 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 17060-07-0 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 13:26 | 1868-53-7 | |
| Percent Moisture | Analytical Method: Dry Weight | | | | | | | |
| Percent Moisture | 2.9 | % | 0.10 | 1 | | 02/03/16 16:16 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632002 Collected: 01/25/16 13:15 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-02:19-21:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|--------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | | | | | | | | |
| Arsenic | 5.2 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7440-38-2 | |
| Barium | 96.3 | mg/kg | 1.5 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7440-39-3 | |
| Cadmium | 0.31 | mg/kg | 0.22 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7440-43-9 | |
| Chromium | 19.6 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7440-47-3 | |
| Lead | 20.4 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.59 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.44 | 1 | 02/04/16 13:30 | 02/05/16 10:55 | 7440-22-4 | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | | | | | | | | |
| Mercury | ND | mg/kg | 0.10 | 1 | 02/04/16 14:37 | 02/05/16 14:07 | 7439-97-6 | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 83-32-9 | |
| Acenaphthylene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 208-96-8 | |
| Anthracene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 193-39-5 | |
| Naphthalene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 91-20-3 | |
| Phenanthrene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 85-01-8 | |
| Pyrene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 129-00-0 | |
| Surrogates | | | | | | | | |
| 2-Fluorobiphenyl (S) | 71 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 321-60-8 | |
| Terphenyl-d14 (S) | 86 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 11:11 | 1718-51-0 | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Acetone | 0.033 | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 67-64-1 | 1c, L1 |
| Benzene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 71-43-2 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-27-4 | 1c |
| Bromoform | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-25-2 | 1c |
| Bromomethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 74-83-9 | 1c |
| TOTAL BTEX | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | | |
| 2-Butanone (MEK) | ND | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 78-93-3 | 1c |
| Carbon disulfide | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-15-0 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-15-0 | 1c |
| Chlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 56-23-5 | 1c |
| Chloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 108-90-7 | 1c |
| Chloroform | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-00-3 | 1c |
| | | | | | | | 67-66-3 | 1c |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-8600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632002 Collected: 01/25/16 13:15 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-02:19-21:S
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 106-46-7 | 1c |
| 1,1-Dichloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 107-06-2 | 1c |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 540-59-0 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 156-60-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 10061-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 10061-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 591-78-6 | 1c |
| Methylene Chloride | ND | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-09-2 | 1c |
| ethyl-2-pentanone (MIBK) | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 108-10-1 | 1c |
| nyl-tert-butyl ether | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 1634-04-4 | 1c |
| Styrene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 100-42-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 79-34-5 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 127-18-4 | 1c |
| Toluene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 108-88-3 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 71-55-6 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 79-00-5 | 1c |
| Trichloroethene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 79-01-6 | 1c |
| Vinyl chloride | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 75-01-4 | 1c |
| Xylene (Total) | ND | mg/kg | 0.0072 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 1330-20-7 | 1c |
| m&p-Xylene | ND | mg/kg | 0.0036 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 179601-23-1 | 1c |
| o-Xylene | | | | | | | 95-47-6 | 1c |
| Surrogates | | | | | | | 2037-26-5 | |
| Toluene-d8 (S) | 94 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 460-00-4 | |
| 4-Bromofluorobenzene (S) | 97 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 17060-07-0 | |
| 1,2-Dichloroethane-d4 (S) | 115 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | 1868-53-7 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 13:45 | | |
| Percent Moisture | | | | | | | | |
| Percent Moisture | 6.0 | % | | 1 | | 02/03/16 16:18 | | |

Analytical Method: Dry Weight

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Lab ID: 30171632003 Collected: 01/25/16 14:55 Received: 01/27/16 15:15 Matrix: Solid

Sample: GP-03-6-8-S
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|-------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | | | | | | | | |
| Arsenic | 0.81 | mg/kg | 0.54 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7440-38-2 | |
| Barium | 216 | mg/kg | 2.2 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7440-39-3 | |
| Cadmium | ND | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7440-43-9 | |
| Chromium | 2.9 | mg/kg | 0.54 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7440-47-3 | |
| Lead | 2.1 | mg/kg | 0.54 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7439-92-1 | |
| Selenium | 1.7 | mg/kg | 0.87 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.65 | 1 | 02/04/16 13:30 | 02/05/16 10:57 | 7440-22-4 | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | | | | | | | | |
| Mercury | ND | mg/kg | 0.14 | 1 | 02/04/16 14:37 | 02/05/16 14:09 | 7439-97-6 | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 83-32-9 | |
| Acenaphthylene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 208-96-8 | |
| Anthracene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 205-99-2 | |
| Chrysene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 191-24-2 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 207-08-9 | |
| Fluoranthene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 218-01-9 | |
| Fluorene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 53-70-3 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 206-44-0 | |
| Naphthalene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 86-73-7 | |
| Phenanthrene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 86-73-7 | |
| Pyrene | ND | mg/kg | 0.0096 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 193-39-5 | |
| Surrogates | 71 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 321-60-8 | |
| 2-Fluorobiphenyl (S) | 80 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 11:28 | 1718-51-0 | |
| Terphenyl-d14 (S) | | | | | | | | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Acetone | 0.056 | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 67-64-1 | 1c,L1 |
| Benzene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 71-43-2 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-27-4 | 1c |
| Bromoform | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-25-2 | 1c |
| Bromomethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 74-83-9 | 1c |
| TOTAL BTEX | ND | mg/kg | 0.066 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | | |
| 2-Butanone (MEK) | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 78-93-3 | 1c |
| Carbon disulfide | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-15-0 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-15-0 | 1c |
| Chlorobenzene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 56-23-5 | 1c |
| Chloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 108-90-7 | 1c |
| Chloroform | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-00-3 | 1c |
| | | | | | | | 67-66-3 | 1c |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Lab ID: 30171632003 Collected: 01/25/16 14:55 Received: 01/27/16 15:15 Matrix: Solid

Sample: GP-03-6-8:S
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-------------------------------|-------|--------------|----|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 106-46-7 | 1c |
| 1,1-Dichloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 107-06-2 | 1c |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 540-59-0 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 156-80-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 10061-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 10061-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 591-78-6 | 1c |
| Methylene Chloride | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-09-2 | 1c |
| ethyl-2-pentanone (MIBK) | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 108-10-1 | 1c |
| ethyl-tert-butyl ether | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 1634-04-4 | 1c |
| Styrene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 100-42-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 79-34-5 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 127-18-4 | 1c |
| Toluene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 108-88-3 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 71-55-6 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 79-00-5 | 1c |
| Trichloroethene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 79-01-6 | 1c |
| Vinyl chloride | ND | mg/kg | 0.033 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 75-01-4 | 1c |
| Xylene (Total) | ND | mg/kg | 0.022 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 1330-20-7 | 1c |
| m&p-Xylene | ND | mg/kg | 0.011 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 179601-23-1 | 1c |
| o-Xylene | | | | | | | 95-47-6 | 1c |
| Surrogates | 93 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 2037-26-5 | |
| Toluene-d8 (S) | 95 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 460-00-4 | |
| 4-Bromofluorobenzene (S) | 122 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 17060-07-0 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 14:04 | 1868-53-7 | |
| Dibromofluoromethane (S) | | | | | | | | |
| Percent Moisture | | | | | | | | |
| | Analytical Method: Dry Weight | | | | | | | |
| Percent Moisture | 31.4 | % | 0.10 | 1 | | 02/03/16 16:19 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Sample: GP-03-20-22:S Lab ID: 30171632004 Collected: 01/25/16 15:00 Received: 01/27/16 15:15 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|--------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | 2.8 | mg/kg | 0.30 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7440-38-2 | |
| Arsenic | 62.7 | mg/kg | 1.2 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7440-39-3 | |
| Barium | ND | mg/kg | 0.18 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7440-43-9 | |
| Cadmium | 20.0 | mg/kg | 0.30 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7440-47-3 | |
| Chromium | 13.1 | mg/kg | 0.30 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7439-92-1 | |
| Lead | ND | mg/kg | 0.48 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7782-49-2 | |
| Selenium | ND | mg/kg | 0.36 | 1 | 02/04/16 13:30 | 02/05/16 10:59 | 7440-22-4 | |
| Silver | | | | | | | | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | ND | mg/kg | 0.097 | 1 | 02/04/16 14:37 | 02/05/16 14:11 | 7439-97-6 | |
| Mercury | | | | | | | | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 83-32-9 | |
| Acenaphthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 208-96-8 | |
| Acenaphthylene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 120-12-7 | |
| Anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 56-55-3 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 50-32-8 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 205-99-2 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 191-24-2 | |
| Benzo(g,h,i)perylene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 207-08-9 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 218-01-9 | |
| Chrysene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 53-70-3 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 206-44-0 | |
| Fluoranthene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 86-73-7 | |
| Fluorene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 193-39-5 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 91-20-3 | |
| Naphthalene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 85-01-8 | |
| Phenanthrene | ND | mg/kg | 0.0068 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 129-00-0 | |
| Pyrene | | | | | | | | |
| Surrogates | 64 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 321-60-8 | |
| 2-Fluorobiphenyl (S) | 82 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 11:46 | 1718-51-0 | |
| Terphenyl-d14 (S) | | | | | | | | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 67-64-1 | 1c, L1 |
| Acetone | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 71-43-2 | 1c |
| Benzene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-27-4 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-25-2 | 1c |
| Bromoform | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 74-83-9 | 1c |
| Bromomethane | ND | mg/kg | 0.024 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | | |
| TOTAL BTEX | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 78-93-3 | 1c |
| 2-Butanone (MEK) | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-15-0 | 1c |
| Carbon disulfide | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 56-23-5 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 108-90-7 | 1c |
| Chlorobenzene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-00-3 | 1c |
| Chloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 67-66-3 | 1c |
| Chloroform | | | | | | | | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632004 Collected: 01/25/16 15:00 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-03-20-22:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 6260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 106-46-7 | 1c |
| 1,1-Dichloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 107-06-2 | 1c |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 540-59-0 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 156-60-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 10061-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 10061-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 591-78-6 | 1c |
| Methylene Chloride | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-09-2 | 1c |
| Methyl-2-pentanone (MIBK) | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 108-10-1 | 1c |
| Methyl-tert-butyl ether | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 1634-04-4 | 1c |
| Styrene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 100-42-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 79-34-5 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 127-18-4 | 1c |
| Toluene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 108-88-3 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 71-55-6 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 79-00-5 | 1c |
| Trichloroethene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 79-01-6 | 1c |
| Vinyl chloride | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 75-01-4 | 1c |
| Xylene (Total) | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 1330-20-7 | 1c |
| m&p-Xylene | ND | mg/kg | 0.0040 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 179601-23-1 | 1c |
| o-Xylene | | | | | | | 95-47-6 | 1c |
| Surrogates | 91 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 2037-26-5 | |
| Toluene-d8 (S) | 95 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 460-00-4 | |
| 4-Bromofluorobenzene (S) | 110 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 17060-07-0 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 14:23 | 1868-53-7 | |
| Dibromofluoromethane (S) | | | | | | | | |
| Analytical Method: Dry Weight | | | | | | | | |
| Percent Moisture | 1.6 | % | 0.10 | 1 | | 02/03/16 16:20 | | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1638 Rosytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632005 Collected: 01/25/16 16:25 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-04:21-23:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|-------|
| Analytical Method: EPA 8010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | | | | | | | | |
| Arsenic | 0.62 | mg/kg | 0.61 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7440-38-2 | |
| Barium | 148 | mg/kg | 2.4 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7440-39-3 | |
| Cadmium | ND | mg/kg | 0.36 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7440-43-9 | |
| Chromium | 2.9 | mg/kg | 0.61 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7440-47-3 | |
| Lead | 0.76 | mg/kg | 0.61 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7439-92-1 | |
| Selenium | 1.2 | mg/kg | 0.97 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.73 | 1 | 02/04/16 13:30 | 02/05/16 11:02 | 7440-22-4 | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | | | | | | | | |
| Mercury | ND | mg/kg | 0.13 | 1 | 02/04/16 14:37 | 02/05/16 14:12 | 7439-97-8 | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 83-32-9 | |
| Acenaphthylene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 208-96-8 | |
| Anthracene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 191-24-2 | |
| Benzo(g,h,i)perylene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 53-70-3 | |
| Fluoranthene | 0.017 | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 193-39-5 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 91-20-3 | |
| Naphthalene | 0.012 | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 85-01-8 | |
| Phenanthrene | 0.014 | mg/kg | 0.0088 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 129-00-0 | |
| Pyrene | | | | | | | | |
| Surrogates | | | | | | | | |
| 2-Fluorobiphenyl (S) | 70 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 321-60-8 | |
| Terphenyl-d14 (S) | 76 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 12:03 | 1718-51-0 | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Acetone | 0.15 | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 67-64-1 | 1c,L1 |
| Benzene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 71-43-2 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-27-4 | 1c |
| Bromoform | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-25-2 | 1c |
| Bromomethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 74-83-9 | 1c |
| TOTAL BTEX | 0.020 | mg/kg | 0.037 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 78-93-3 | 1c |
| 2-Butanone (MEK) | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-15-0 | 1c |
| Carbon disulfide | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-15-0 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 56-23-5 | 1c |
| Chlorobenzene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 108-90-7 | 1c |
| Chloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-00-3 | 1c |
| Chloroform | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 67-66-3 | 1c |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632005 Collected: 01/25/16 16:25 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-04:21-23:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-------------------------------|-------|--------------|----|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 106-46-7 | 1c |
| 1,1-Dichloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 107-06-2 | 1c |
| 1,2-Dichloroethane (Total) | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 540-59-0 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 156-60-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 10081-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 10081-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 591-78-6 | 1c |
| Methylene Chloride | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-09-2 | 1c |
| Methyl-2-pentanone (MIBK) | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 108-10-1 | 1c |
| Diethyl-tert-butyl ether | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 1634-04-4 | 1c |
| Styrene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 100-42-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 79-34-5 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 127-18-4 | 1c |
| Toluene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 108-88-3 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 71-55-6 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 79-00-5 | 1c |
| Trichloroethene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 79-01-6 | 1c |
| Vinyl chloride | ND | mg/kg | 0.019 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 75-01-4 | 1c |
| Xylene (Total) | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 1330-20-7 | 1c |
| m&p-Xylene | ND | mg/kg | 0.0062 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 179601-23-1 | 1c |
| o-Xylene | | | | | | | 95-47-6 | 1c |
| Surrogates | 93 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 2037-26-5 | |
| Toluene-d8 (S) | 118 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 460-00-4 | |
| 4-Bromofluorobenzene (S) | 121 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 17060-07-0 | |
| 1,2-Dichloroethane-d4 (S) | 116 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 14:42 | 1868-53-7 | |
| Dibromofluoromethane (S) | | | | | | | | |
| Percent Moisture | | | | | | | | |
| | Analytical Method: Dry Weight | | | | | | | |
| Percent Moisture | 24.9 | % | 0.10 | 1 | | 02/03/16 16:21 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632006 Collected: 01/25/16 09:20 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-05:11-12:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|-------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | | | | | | | | |
| Arsenic | 6.8 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7440-38-2 | |
| Barium | 32.6 | mg/kg | 1.3 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7440-39-3 | |
| Cadmium | 2.0 | mg/kg | 0.20 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7440-43-9 | |
| Chromium | 19.9 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7440-47-3 | |
| Lead | 14.3 | mg/kg | 0.33 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.52 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.39 | 1 | 02/04/16 13:30 | 02/05/16 11:04 | 7440-22-4 | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | | | | | | | | |
| Mercury | ND | mg/kg | 0.10 | 1 | 02/04/16 14:37 | 02/05/16 14:14 | 7439-97-6 | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 83-32-9 | |
| Acenaphthylene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 208-96-8 | |
| Anthracene | 0.0085 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 120-12-7 | |
| Benzo(a)anthracene | 0.015 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 56-55-3 | |
| Benzo(a)pyrene | 0.013 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.020 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 205-99-2 | |
| Benzo(g,h,i)perylene | 0.012 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 191-24-2 | |
| Benzo(k)fluoranthene | 0.0090 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 207-08-9 | |
| Chrysene | 0.015 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 53-70-3 | |
| Fluoranthene | 0.033 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 0.0077 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 193-39-5 | |
| Naphthalene | ND | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 91-20-3 | |
| Phenanthrene | 0.018 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 85-01-8 | |
| Pyrene | 0.028 | mg/kg | 0.0071 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 129-00-0 | |
| Surrogates | | | | | | | | |
| 2-Fluorobiphenyl (S) | 76 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 321-60-8 | |
| Terphenyl-d14 (S) | 99 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 12:20 | 1718-51-0 | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Acetone | 0.031 | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 67-64-1 | 1c,L1 |
| Benzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 71-43-2 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-27-4 | 1c |
| Bromoform | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-25-2 | 1c |
| Bromomethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 74-83-9 | 1c |
| TOTAL BTEX | ND | mg/kg | 0.025 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | | |
| 2-Butanone (MEK) | ND | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 78-93-3 | 1c |
| Carbon disulfide | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-15-0 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 56-23-5 | 1c |
| Chlorobenzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 108-90-7 | 1c |
| Chloroethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-00-3 | 1c |
| Chloroform | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 67-66-3 | 1c |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Sample: GP-05-11-12:S Lab ID: 30171632006 Collected: 01/25/16 09:20 Received: 01/27/16 15:15 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|------|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 106-46-7 | 1c |
| 1,1-Dichloroethane | 0.028 | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 107-06-2 | 1c |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 540-59-0 | 1c |
| 1,1-Dichloroethene | 0.20 | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 156-60-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 10061-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 10061-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 591-78-6 | 1c |
| Methylene Chloride | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-09-2 | 1c |
| Methyl-2-pentanone (MIBK) | ND | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 108-10-1 | 1c |
| Methyl-tert-butyl ether | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 1634-04-4 | 1c |
| Styrene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 100-42-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 79-34-5 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 127-18-4 | 1c |
| Toluene | 0.19 | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 108-88-3 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 71-55-6 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 79-00-5 | 1c |
| Trichloroethene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 79-01-6 | 1c |
| Vinyl chloride | ND | mg/kg | 0.013 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 75-01-4 | 1c |
| Xylene (Total) | ND | mg/kg | 0.0084 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 1330-20-7 | 1c |
| m&p-Xylene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 179601-23-1 | 1c |
| o-Xylene | ND | mg/kg | 0.0042 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 95-47-6 | 1c |
| Surrogates | | % | | | | | | |
| Toluene-d8 (S) | 95 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 17060-07-0 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 15:01 | 1868-53-7 | |
| Percent Moisture | | | | | | | | |
| Percent Moisture | 6.8 | % | | 0.10 | 1 | 02/03/16 16:23 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632007 Collected: 01/25/16 10:50 Received: 01/27/16 15:15 Matrix: Solid
 Sample: GP-06-14-16:S

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|-------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | 9.9 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7440-38-2 | |
| Arsenic | 67.4 | mg/kg | 1.5 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7440-39-3 | |
| Barium | ND | mg/kg | 0.22 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7440-43-9 | |
| Cadmium | 45.5 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7440-47-3 | |
| Chromium | 15.9 | mg/kg | 0.37 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7439-92-1 | |
| Lead | ND | mg/kg | 0.59 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7782-49-2 | |
| Selenium | ND | mg/kg | 0.44 | 1 | 02/04/16 13:30 | 02/05/16 11:11 | 7440-22-4 | |
| Silver | | | | | | | | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | ND | mg/kg | 0.10 | 1 | 02/04/16 14:37 | 02/05/16 14:19 | 7439-97-6 | |
| Mercury | | | | | | | | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 83-32-9 | |
| Acenaphthene | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 208-96-8 | |
| Acenaphthylene | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 120-12-7 | |
| Anthracene | 0.0084 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 56-55-3 | |
| Benzo(a)anthracene | 0.012 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 50-32-8 | |
| Benzo(a)pyrene | 0.023 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 205-99-2 | |
| Benzo(b)fluoranthene | 0.011 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 191-24-2 | |
| Benzo(g,h,i)perylene | 0.011 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 207-08-9 | |
| Benzo(k)fluoranthene | 0.026 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 218-01-9 | |
| Chrysene | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 53-70-3 | |
| Dibenz(a,h)anthracene | 0.043 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 206-44-0 | |
| Fluoranthene | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 86-73-7 | |
| Fluorene | 0.0073 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 193-39-5 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 91-20-3 | |
| Naphthalene | 0.019 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 85-01-8 | |
| Phenanthrene | 0.040 | mg/kg | 0.0069 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 129-00-0 | |
| Pyrene | | | | | | | | |
| Surrogates | 67 | % | 35-141 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 321-60-8 | |
| 2-Fluorobiphenyl (S) | 84 | % | 64-141 | 1 | 02/08/16 10:00 | 02/09/16 12:38 | 1718-51-0 | |
| Terphenyl-d14 (S) | | | | | | | | |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 67-64-1 | 1c,M5 |
| Acetone | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 71-43-2 | 1c,M5 |
| Benzene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-27-4 | 1c,M5 |
| Bromodichloromethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-25-2 | 1c,M5 |
| Bromoform | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 74-83-9 | 1c,M5 |
| Bromomethane | ND | mg/kg | 0.022 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | | M5 |
| TOTAL BTEX | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 78-93-3 | 1c,M5 |
| 2-Butanone (MEK) | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-15-0 | 1c,M5 |
| Carbon disulfide | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 56-23-5 | 1c,M5 |
| Carbon tetrachloride | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 108-90-7 | 1c,M5 |
| Chlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-00-3 | 1c,M5 |
| Chloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 67-66-3 | 1c,M5 |
| Chloroform | | | | | | | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Lab ID: 30171632007 Collected: 01/25/16 10:50 Received: 01/27/16 15:15 Matrix: Solid
Sample: GP-06:14-16:S
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-------------------------------|-------|--------------|------|----------------|----------------|-------------|-------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 74-87-3 | 1c,M5 |
| Dibromochloromethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 124-48-1 | 1c,M5 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 95-50-1 | 1c,M5 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 541-73-1 | 1c,M5 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 108-46-7 | 1c,M5 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-34-3 | 1c,M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 107-06-2 | 1c,M5 |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 540-59-0 | M5 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-35-4 | 1c,M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 156-59-2 | 1c,M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 156-60-5 | 1c,M5 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 78-87-5 | 1c,M5 |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 10061-01-5 | 1c,M5 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 10061-02-6 | 1c,M5 |
| Ethylbenzene | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 100-41-4 | 1c,M5 |
| 2-Hexanone | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 591-78-6 | 1c,M5 |
| Methylene Chloride | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-09-2 | 1c,M5 |
| 1-methyl-2-pentanone (MIBK) | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 108-10-1 | 1c,M5 |
| 1,1-dimethyl-2-methyl-tert-butyl ether | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 1634-04-4 | 1c,M5 |
| Styrene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 100-42-5 | 1c,M5 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 79-34-5 | 1c,M5 |
| Tetrachloroethene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 127-18-4 | 1c,M5 |
| Toluene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 108-88-3 | 1c,M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 71-55-6 | 1c,M5 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 79-00-5 | 1c,M5 |
| Trichloroethene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 79-01-6 | 1c,M5 |
| Vinyl chloride | ND | mg/kg | 0.011 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 75-01-4 | 1c,M5 |
| Xylene (Total) | ND | mg/kg | 0.0073 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 1330-20-7 | M5 |
| m&p-Xylene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 179601-23-1 | 1c,M5 |
| o-Xylene | ND | mg/kg | 0.0036 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 95-47-6 | 1c,M5 |
| Surrogates | 96 | % | 68-135 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 2037-26-5 | M5 |
| Toluene-d8 (S) | 97 | % | 65-146 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 460-00-4 | M5 |
| 4-Bromofluorobenzene (S) | 102 | % | 69-137 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 17060-07-0 | M5 |
| 1,2-Dichloroethane-d4 (S) | 97 | % | 70-130 | 1 | 02/05/16 12:00 | 02/05/16 13:42 | 1868-53-7 | M5 |
| Dibromofluoromethane (S) | | | | | | | | |
| Percent Moisture | | | | | | | | |
| | Analytical Method: Dry Weight | | | | | | | |
| Percent Moisture | 4.0 | % | | 0.10 | 1 | 02/03/16 16:24 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632008 Collected: 01/25/16 11:30 Received: 01/27/16 15:15 Matrix: Solid

Sample: GP-07:1-2:S
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Comments: • 8270SJMCRC: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|-------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3050B | | | | | | | | |
| 6010 MET ICP | | | | | | | | |
| Arsenic | 8.7 | mg/kg | 0.43 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7440-38-2 | |
| Barium | 103 | mg/kg | 1.7 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7440-39-3 | |
| Cadmium | 1.1 | mg/kg | 0.26 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7440-43-9 | |
| Chromium | 309 | mg/kg | 0.43 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7440-47-3 | |
| Lead | 57.1 | mg/kg | 0.43 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.69 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7782-49-2 | |
| Silver | 1.4 | mg/kg | 0.52 | 1 | 02/04/16 13:30 | 02/05/16 11:14 | 7440-22-4 | |
| Analytical Method: EPA 7471A Preparation Method: EPA 7471A | | | | | | | | |
| 7471 Mercury | ND | mg/kg | 0.10 | 1 | 02/04/16 14:37 | 02/05/16 14:21 | 7439-97-6 | |
| Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3546 | | | | | | | | |
| 8270 MSSV PAH by SIM | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 83-32-9 | R1 |
| Acenaphthylene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 208-96-8 | M6,R1 |
| Anthracene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 120-12-7 | M6,R1 |
| Benzo(a)anthracene | 0.23 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 56-55-3 | M6,R1 |
| Benzo(a)pyrene | 0.15 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 50-32-8 | M6,R1 |
| Benzo(b)fluoranthene | 0.33 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 205-99-2 | M6,R1 |
| Benzo(g,h,i)perylene | 0.16 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 191-24-2 | M6,R1 |
| Benzo(k)fluoranthene | 0.16 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 207-08-9 | M6,R1 |
| Chrysene | 0.18 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 218-01-9 | M6,R1 |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 53-70-3 | M6,R1 |
| Fluoranthene | 0.20 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 206-44-0 | M6,R1 |
| Fluorene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 86-73-7 | M6,R1 |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 193-39-5 | M6,R1 |
| Naphthalene | 0.18 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 91-20-3 | M6,R1 |
| Phenanthrene | ND | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 85-01-8 | M6,R1 |
| Pyrene | 0.25 | mg/kg | 0.14 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 129-00-0 | M6,R1 |
| Surrogates | | | | | | | | |
| 2-Fluorobiphenyl (S) | 54 | % | 35-141 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 321-60-8 | S4 |
| Terphenyl-d14 (S) | 48 | % | 64-141 | 20 | 02/08/16 10:00 | 02/09/16 12:55 | 1718-51-0 | S4 |
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Acetone | 0.094 | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 67-64-1 | 1c,L1 |
| Benzene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 71-43-2 | 1c |
| Bromodichloromethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-27-4 | 1c |
| Bromoform | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-25-2 | 1c |
| Bromomethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 74-83-9 | 1c |
| TOTAL BTEX | ND | mg/kg | 0.024 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | | 1c |
| 2-Butanone (MEK) | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 78-93-3 | 1c |
| Carbon disulfide | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-15-0 | 1c |
| Carbon tetrachloride | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 56-23-5 | 1c |
| Chlorobenzene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 108-90-7 | 1c |
| Chloroethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-00-3 | 1c |
| Chloroform | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 67-66-3 | 1c |

REPORT OF LABORATORY ANALYSIS

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 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632008 Collected: 01/25/16 11:30 Received: 01/27/16 15:15 Matrix: Solid

Sample: GP-07:1-2:S
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Comments: * 8270SJMCR: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|------|----------------|----------------|-------------|------|
| Analytical Method: EPA 8260B Preparation Method: EPA 5035A | | | | | | | | |
| 8260B MSV 5035 Low Level | | | | | | | | |
| Chloromethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 74-87-3 | 1c |
| Dibromochloromethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 124-48-1 | 1c |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 95-50-1 | 1c |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 541-73-1 | 1c |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 106-46-7 | 1c |
| 1,1-Dichloroethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-34-3 | 1c |
| 1,2-Dichloroethane | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 107-06-2 | 1c |
| 1,2-Dichloroethene (Total) | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 640-59-0 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-35-4 | 1c |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 156-59-2 | 1c |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 156-60-5 | 1c |
| 1,2-Dichloropropane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 78-87-5 | 1c |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 10061-01-5 | 1c |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 10061-02-6 | 1c |
| Ethylbenzene | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 100-41-4 | 1c |
| 2-Hexanone | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 100-41-4 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-09-2 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 108-10-1 | 1c |
| 1,1-Dichloroethene | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 1634-04-4 | 1c |
| Methyl-tert-butyl ether | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 100-42-5 | 1c |
| Styrene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 79-34-5 | 1c |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 127-18-4 | 1c |
| Tetrachloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 108-88-3 | 1c |
| Toluene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 71-55-6 | 1c |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 79-00-5 | 1c |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 79-01-6 | 1c |
| Trichloroethene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 75-01-4 | 1c |
| Vinyl chloride | ND | mg/kg | 0.012 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 1330-20-7 | 1c |
| Xylene (Total) | ND | mg/kg | 0.0081 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 179601-23-1 | 1c |
| m&p-Xylene | ND | mg/kg | 0.0041 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 95-47-6 | 1c |
| o-Xylene | | | | | | | | |
| Surrogates | | | | | | | | |
| Toluene-d8 (S) | 92 | % | 68-135 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | % | 65-146 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 116 | % | 69-137 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 17060-07-0 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | 1 | 02/04/16 12:00 | 02/04/16 15:39 | 1868-53-7 | |
| Percent Moisture | | | | | | | | |
| Percent Moisture | 2.4 | % | | 0.10 | 1 | 02/03/16 16:25 | | |

REPORT OF LABORATORY ANALYSIS

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 Greensburg, PA 15601
 (724)650-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

| Sample: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|--|-------------|----------------|----------------|---------|----------------|----------------|------------|------|
| GP-02:201601:W | 30171632009 | 01/26/16 13:10 | 01/27/16 15:15 | Water | | | | |
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Analytical Method: EPA 6010B Preparation Method: EPA 3005A | | | | | | | | |
| 6010 MET ICP, Dissolved | | | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7440-38-2 | |
| Arsenic, Dissolved | ND | ug/L | 10.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7440-39-3 | |
| Barium, Dissolved | 69.0 | ug/L | 3.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7440-43-9 | |
| Cadmium, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7440-47-3 | |
| Chromium, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7439-92-1 | |
| Lead, Dissolved | ND | ug/L | 8.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7782-49-2 | |
| Selenium, Dissolved | ND | ug/L | 8.0 | 1 | 02/05/16 13:08 | 02/08/16 08:22 | 7440-22-4 | |
| Silver, Dissolved | ND | ug/L | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| 7470 Mercury, Dissolved | ND | ug/L | 0.20 | 1 | 02/09/16 14:08 | 02/09/16 19:55 | 7439-97-6 | |
| Mercury, Dissolved | | | | | | | | |
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | | | 10.0 | 1 | | 02/07/16 04:11 | 67-64-1 | |
| Acetone | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 71-43-2 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 74-97-5 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-27-4 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-25-2 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 74-83-9 | |
| Bromomethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 78-93-3 | |
| Butanone (MEK) | ND | ug/L | 10.0 | 1 | | 02/07/16 04:11 | 75-15-0 | |
| Carbon disulfide | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 56-23-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 108-90-7 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-00-3 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 67-66-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 74-87-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 110-82-7 | |
| Cyclohexane | ND | ug/L | 10.0 | 1 | | 02/07/16 04:11 | 96-12-8 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 02/07/16 04:11 | 124-48-1 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 106-93-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 95-50-1 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 541-73-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 106-46-7 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-71-8 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-34-3 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 107-06-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-35-4 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 156-59-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 156-60-5 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 78-87-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 142-28-9 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 10061-01-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 10061-02-6 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 123-91-1 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 100 | 1 | | 02/07/16 04:11 | 100-41-4 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 591-78-6 | |
| 2-Hexanone | ND | ug/L | 10.0 | 1 | | 02/07/16 04:11 | 98-82-8 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 1.0 | 1 | | | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Lab ID: 30171632009 Collected: 01/26/16 13:10 Received: 01/27/16 15:15 Matrix: Water
Sample: GP-02:201601:W

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|-------|--------------|----|----------|----------------|-------------|------|
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | ND | ug/L | 5.0 | 1 | | 02/07/16 04:11 | 79-20-9 | |
| Methyl acetate | ND | ug/L | 10.0 | 1 | | 02/07/16 04:11 | 108-87-2 | |
| Methylcyclohexane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-09-2 | |
| Methylene Chloride | ND | ug/L | 10.0 | 1 | | 02/07/16 04:11 | 108-10-1 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 1634-04-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 100-42-5 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 79-34-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 127-18-4 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 108-88-3 | |
| Toluene | ND | ug/L | 2.0 | 1 | | 02/07/16 04:11 | 87-61-6 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 120-82-1 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 71-55-6 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 79-00-5 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 79-01-6 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-69-4 | |
| Trichlorofluoromethane | ND | ug/L | 50.0 | 1 | | 02/07/16 04:11 | 76-13-1 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 95-63-6 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 108-67-8 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 75-01-4 | |
| chloride | ND | ug/L | 2.0 | 1 | | 02/07/16 04:11 | 179601-23-1 | |
| p-Xylene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:11 | 95-47-6 | |
| o-Xylene | | | | | | 02/07/16 04:11 | 460-00-4 | |
| Surrogates | | | | | | 02/07/16 04:11 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 108 | % | 81-119 | 1 | | 02/07/16 04:11 | 2037-26-5 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 77-126 | 1 | | 02/07/16 04:11 | 1868-53-7 | |
| Toluene-d8 (S) | 92 | % | 84-115 | 1 | | | | |
| Dibromofluoromethane (S) | 116 | % | 70-130 | 1 | | | | |

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

| Sample: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|--|-------------|----------------|----------------|---------|----------------|----------------|------------|------|
| GP-05:201601:W | 30171632010 | 01/26/16 14:20 | 01/27/16 15:15 | Water | | | | |
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Analytical Method: EPA 6010B Preparation Method: EPA 3005A | | | | | | | | |
| 6010 MET ICP, Dissolved | | | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7440-38-2 | |
| Arsenic, Dissolved | ND | ug/L | 10.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7440-39-3 | |
| Barium, Dissolved | 18.9 | ug/L | 3.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7440-43-9 | |
| Cadmium, Dissolved | 12.3 | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7440-47-3 | |
| Chromium, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7439-92-1 | |
| Lead, Dissolved | ND | ug/L | 8.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7782-49-2 | |
| Selenium, Dissolved | ND | ug/L | 6.0 | 1 | 02/05/16 13:08 | 02/08/16 08:24 | 7440-22-4 | |
| Silver, Dissolved | ND | ug/L | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| 7470 Mercury, Dissolved | ND | ug/L | 0.20 | 1 | 02/09/16 14:08 | 02/09/16 20:03 | 7439-97-6 | |
| Mercury, Dissolved | | | | | | | | |
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | | | 10.0 | 1 | | 02/07/16 04:36 | 67-64-1 | |
| Acetone | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 71-43-2 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 74-97-6 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-27-4 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-25-2 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 74-83-9 | |
| Bromomethane | ND | ug/L | 10.0 | 1 | | 02/07/16 04:36 | 78-93-3 | |
| Butanone (MEK) | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-15-0 | |
| Carbon disulfide | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 56-23-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 108-90-7 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-00-3 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 67-66-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 74-87-3 | |
| Chloromethane | ND | ug/L | 10.0 | 1 | | 02/07/16 04:36 | 110-82-7 | |
| Cyclohexane | ND | ug/L | 5.0 | 1 | | 02/07/16 04:36 | 96-12-8 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 124-48-1 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 106-93-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 95-50-1 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 541-73-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 106-46-7 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-71-8 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-34-3 | |
| 1,1-Dichloroethane | 13.3 | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 107-06-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-35-4 | |
| 1,1-Dichloroethene | 17.8 | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 156-59-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 156-60-5 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 78-87-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 142-28-9 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 10061-01-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 10061-02-6 | |
| trans-1,3-Dichloropropene | ND | ug/L | 100 | 1 | | 02/07/16 04:36 | 123-91-1 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 100-41-4 | |
| Ethylbenzene | ND | ug/L | 10.0 | 1 | | 02/07/16 04:36 | 591-78-6 | |
| 2-Hexanone | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 98-82-8 | |
| Isopropylbenzene (Cumene) | ND | ug/L | | | | | | |

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Sample: GP-05:201601:W Lab ID: 30171632010 Collected: 01/26/16 14:20 Received: 01/27/16 15:15 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|-------|--------------|----|----------|----------------|-------------|------|
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | | | | | | 02/07/16 04:36 | 79-20-9 | |
| Methyl acetate | ND | ug/L | 5.0 | 1 | | 02/07/16 04:36 | 108-87-2 | |
| Methylcyclohexane | ND | ug/L | 10.0 | 1 | | 02/07/16 04:36 | 75-09-2 | |
| Methylene Chloride | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 108-10-1 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 10.0 | 1 | | 02/07/16 04:36 | 1634-04-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 100-42-5 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 79-34-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 127-18-4 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 108-88-3 | |
| Toluene | ND | ug/L | 2.0 | 1 | | 02/07/16 04:36 | 87-61-6 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 120-82-1 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 71-55-6 | |
| 1,1,1-Trichloroethane | 55.0 | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 79-00-5 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 79-01-6 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-69-4 | |
| Trichlorofluoromethane | ND | ug/L | 50.0 | 1 | | 02/07/16 04:36 | 76-13-1 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 95-63-6 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 108-67-8 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 75-01-4 | |
| vinyl chloride | ND | ug/L | 2.0 | 1 | | 02/07/16 04:36 | 179601-23-1 | |
| p-Xylene | ND | ug/L | 1.0 | 1 | | 02/07/16 04:36 | 95-47-6 | |
| o-Xylene | | | | | | 02/07/16 04:36 | 460-00-4 | |
| Surrogates | | | | | | 02/07/16 04:36 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 114 | % | 81-119 | 1 | | 02/07/16 04:36 | 2037-26-5 | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 77-126 | 1 | | 02/07/16 04:36 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 84-115 | 1 | | | | |
| Dibromofluoromethane (S) | 115 | % | 70-130 | 1 | | | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

Lab ID: 30171632011 Collected: 01/26/16 14:45 Received: 01/27/16 15:15 Matrix: Water
Sample: GP-06:201601:W

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| Analytical Method: EPA 6010B Preparation Method: EPA 3005A | | | | | | | | |
| 6010 MET ICP, Dissolved | | | | | | | | |
| Arsenic, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7440-38-2 | |
| Barium, Dissolved | 73.6 | ug/L | 10.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7440-39-3 | |
| Cadmium, Dissolved | ND | ug/L | 3.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7440-43-9 | |
| Chromium, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7440-47-3 | |
| Lead, Dissolved | ND | ug/L | 5.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7439-92-1 | |
| Selenium, Dissolved | ND | ug/L | 8.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7782-49-2 | |
| Silver, Dissolved | ND | ug/L | 6.0 | 1 | 02/05/16 13:08 | 02/08/16 08:26 | 7440-22-4 | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| 7470 Mercury, Dissolved | | | | | | | | |
| Mercury, Dissolved | ND | ug/L | 0.20 | 1 | 02/09/16 14:08 | 02/09/16 20:05 | 7439-97-6 | |
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | | | | | | | | |
| Acetone | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-25-2 | |
| Bromomethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 74-83-9 | |
| Carbon disulfide | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-15-0 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 56-23-5 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 108-90-7 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-00-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 67-66-3 | |
| Cyclohexane | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 110-82-7 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 124-48-1 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 106-93-4 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 541-73-1 | |
| Dichlorodifluoromethane | 1.4 | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 106-46-7 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-71-8 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-35-4 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 156-59-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 156-60-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 142-28-9 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 10061-01-5 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 100 | 1 | | 02/07/16 05:01 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 123-91-1 | |
| 2-Hexanone | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 100-41-4 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 591-78-6 | |
| | | | | | | | 98-82-8 | |

REPORT OF LABORATORY ANALYSIS

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 (724)850-5600

ANALYTICAL RESULTS

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

Lab ID: 30171632011 Collected: 01/26/16 14:45 Received: 01/27/16 15:15 Matrix: Water
 Sample: GP-06:201601:W

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|-------|--------------|----|----------|----------------|-------------|------|
| Analytical Method: EPA 8260B | | | | | | | | |
| 8260B MSV | | | | | | 02/07/16 05:01 | 79-20-9 | |
| Methyl acetate | ND | ug/L | 5.0 | 1 | | 02/07/16 05:01 | 108-87-2 | |
| Methylcyclohexane | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 75-09-2 | |
| Methylene Chloride | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 108-10-1 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 10.0 | 1 | | 02/07/16 05:01 | 1634-04-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 100-42-5 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 79-34-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 127-18-4 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 108-88-3 | |
| Toluene | ND | ug/L | 2.0 | 1 | | 02/07/16 05:01 | 87-61-6 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 120-82-1 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 71-55-6 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 79-00-5 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 79-01-6 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-69-4 | |
| Trichlorofluoromethane | ND | ug/L | 50.0 | 1 | | 02/07/16 05:01 | 76-13-1 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 95-63-6 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 108-67-8 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 75-01-4 | |
| Chloride | ND | ug/L | 2.0 | 1 | | 02/07/16 05:01 | 179601-23-1 | |
| p-Xylene | ND | ug/L | 1.0 | 1 | | 02/07/16 05:01 | 95-47-6 | |
| o-Xylene | | | | | | 02/07/16 05:01 | 460-00-4 | |
| Surrogates | | | | | | 02/07/16 05:01 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 112 | % | 81-119 | 1 | | 02/07/16 05:01 | 2037-26-5 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 77-126 | 1 | | 02/07/16 05:01 | 1868-53-7 | |
| Toluene-d8 (S) | 88 | % | 84-115 | 1 | | | | |
| Dibromofluoromethane (S) | 113 | % | 70-130 | 1 | | | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: MERP/7369
QC Batch Method: EPA 7470A
Associated Lab Samples: 30171632009, 30171632010, 30171632011
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved

METHOD BLANK: 1023358
Associated Lab Samples: 30171632009, 30171632010, 30171632011
Matrix: Water

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------|-------|--------------|-----------------|----------------|------------|
| Mercury, Dissolved | ug/L | ND | 0.20 | 02/09/16 19:51 | |

LABORATORY CONTROL SAMPLE: 1023359

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| Mercury, Dissolved | ug/L | 1 | 0.98 | 98 | 85-115 | |

MATRIX SPIKE SAMPLE: 1023361

| Parameter | Units | 30171632009 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury, Dissolved | ug/L | ND | 2.5 | 2.6 | 103 | 80-120 | |

SAMPLE DUPLICATE: 1023360

| Parameter | Units | 30171632009 Result | Dup Result | RPD | Qualifiers |
|--------------------|-------|--------------------|------------|-----|------------|
| Mercury, Dissolved | ug/L | ND | ND | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: MERP/7355
QC Batch Method: EPA 7471A
Analysis Method: EPA 7471A
Analysis Description: 7471 Mercury
Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

METHOD BLANK: 1021342
Matrix: Solid
Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury | mg/kg | ND | 0.10 | 02/05/16 13:59 | |

LABORATORY CONTROL SAMPLE: 1021343

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/kg | .042 | .042J | 101 | 85-115 | |

MATRIX SPIKE SAMPLE: 1021345

| Parameter | Units | 30171632001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury | mg/kg | ND | .1 | 0.14 | 112 | 80-120 | H3 |

SAMPLE DUPLICATE: 1021344

| Parameter | Units | 30171632001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Mercury | mg/kg | ND | .019J | | H3 |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

QC Batch: MPRP/17506
 QC Batch Method: EPA 3050B
 Analysis Method: EPA 6010B
 Analysis Description: 6010 MET
 Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

METHOD BLANK: 1021338
 Matrix: Solid
 Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | ND | 0.50 | 02/05/16 10:43 | |
| Barium | mg/kg | ND | 2.0 | 02/05/16 10:43 | |
| Cadmium | mg/kg | ND | 0.30 | 02/05/16 10:43 | |
| Chromium | mg/kg | ND | 0.50 | 02/05/16 10:43 | |
| Lead | mg/kg | ND | 0.50 | 02/05/16 10:43 | |
| Selenium | mg/kg | ND | 0.80 | 02/05/16 10:43 | |
| Silver | mg/kg | ND | 0.60 | 02/05/16 10:43 | |

LABORATORY CONTROL SAMPLE: 1021339

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 50 | 48.3 | 97 | 80-120 | |
| Barium | mg/kg | 50 | 47.2 | 94 | 80-120 | |
| Cadmium | mg/kg | 50 | 49.7 | 99 | 80-120 | |
| Chromium | mg/kg | 50 | 52.0 | 104 | 80-120 | |
| Lead | mg/kg | 50 | 45.6 | 91 | 80-120 | |
| Selenium | mg/kg | 50 | 47.4 | 95 | 80-120 | |
| Silver | mg/kg | 25 | 24.3 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 1021341

| Parameter | Units | 30171632001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Arsenic | mg/kg | 0.63 | 42.9 | 37.9 | 87 | 75-125 | |
| Barium | mg/kg | 68.7 | 42.9 | 108 | 92 | 75-125 | |
| Cadmium | mg/kg | ND | 42.9 | 40.0 | 93 | 75-125 | |
| Chromium | mg/kg | 26.5 | 42.9 | 69.1 | 99 | 75-125 | |
| Lead | mg/kg | 14.4 | 42.9 | 52.9 | 90 | 75-125 | |
| Selenium | mg/kg | ND | 42.9 | 36.6 | 85 | 75-125 | |
| Silver | mg/kg | ND | 21.4 | 20.3 | 94 | 75-125 | |

SAMPLE DUPLICATE: 1021340

| Parameter | Units | 30171632001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-------|------------|
| Arsenic | mg/kg | 0.63 | 0.73 | 14 | |
| Barium | mg/kg | 68.7 | 55.3 | 22 D6 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

SAMPLE DUPLICATE: 1021340

| Parameter | Units | 30171632001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|-----------------------|---------------|-----|------------|
| Cadmium | mg/kg | ND | .13J | | |
| Chromium | mg/kg | 26.5 | 22.9 | 15 | |
| Lead | mg/kg | 14.4 | 11.2 | 25 | D6 |
| Selenium | mg/kg | ND | ND | | |
| Silver | mg/kg | ND | .16J | | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: MPRP/17513
QC Batch Method: EPA 3005A
Associated Lab Samples: 30171632009, 30171632010, 30171632011

Analysis Method: EPA 6010B
Analysis Description: 6010 MET Dissolved

METHOD BLANK: 1021998
Associated Lab Samples: 30171632009, 30171632010, 30171632011

Matrix: Water

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------|-------|--------------|-----------------|----------------|------------|
| Arsenic, Dissolved | ug/L | ND | 5.0 | 02/08/16 08:51 | |
| Barium, Dissolved | ug/L | ND | 10.0 | 02/08/16 08:51 | |
| Cadmium, Dissolved | ug/L | ND | 3.0 | 02/08/16 08:51 | |
| Chromium, Dissolved | ug/L | ND | 5.0 | 02/08/16 08:51 | |
| Lead, Dissolved | ug/L | ND | 5.0 | 02/08/16 08:51 | |
| Selenium, Dissolved | ug/L | ND | 8.0 | 02/08/16 08:51 | |
| Silver, Dissolved | ug/L | ND | 6.0 | 02/08/16 08:51 | |

LABORATORY CONTROL SAMPLE: 1021999

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic, Dissolved | ug/L | 500 | 440 | 88 | 80-120 | |
| Barium, Dissolved | ug/L | 500 | 436 | 87 | 80-120 | |
| Cadmium, Dissolved | ug/L | 500 | 461 | 92 | 80-120 | |
| Chromium, Dissolved | ug/L | 500 | 445 | 89 | 80-120 | |
| Lead, Dissolved | ug/L | 500 | 432 | 86 | 80-120 | |
| Selenium, Dissolved | ug/L | 500 | 461 | 92 | 80-120 | |
| Silver, Dissolved | ug/L | 250 | 221 | 88 | 80-120 | |

MATRIX SPIKE SAMPLE: 1022001

| Parameter | Units | 30171480001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Arsenic, Dissolved | ug/L | ND | 500 | 484 | 97 | 75-125 | |
| Barium, Dissolved | ug/L | 230 | 500 | 696 | 93 | 75-125 | |
| Cadmium, Dissolved | ug/L | ND | 500 | 493 | 98 | 75-125 | |
| Chromium, Dissolved | ug/L | ND | 500 | 470 | 94 | 75-125 | |
| Lead, Dissolved | ug/L | ND | 500 | 469 | 94 | 75-125 | |
| Selenium, Dissolved | ug/L | ND | 500 | 498 | 99 | 75-125 | |
| Silver, Dissolved | ug/L | ND | 250 | 244 | 98 | 75-125 | |

SAMPLE DUPLICATE: 1022000

| Parameter | Units | 30171480001 Result | Dup Result | RPD | Qualifiers |
|---------------------|-------|--------------------|------------|-----|------------|
| Arsenic, Dissolved | ug/L | ND | ND | | |
| Barium, Dissolved | ug/L | 230 | 239 | 4 | |
| Cadmium, Dissolved | ug/L | ND | ND | | |
| Chromium, Dissolved | ug/L | ND | ND | | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

SAMPLE DUPLICATE: 1022000

| Parameter | Units | 30171480001 Result | Dup Result | RPD | Qualifiers |
|---------------------|-------|-----------------------|---------------|-----|------------|
| Lead, Dissolved | ug/L | ND | ND | | |
| Selenium, Dissolved | ug/L | ND | ND | | |
| Silver, Dissolved | ug/L | ND | ND | | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632
 QC Batch: MSV/26922
 QC Batch Method: EPA 5035A
 Analysis Method: EPA 8260B
 Analysis Description: 8260B MSV 5035 Low
 Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632008
 Matrix: Solid
 METHOD BLANK: 1021070
 Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,1,2,2-Tetrachloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,1,2-Trichloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,1-Dichloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,1-Dichloroethene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,2-Dichlorobenzene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,2-Dichloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,2-Dichloropropane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,3-Dichlorobenzene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,4-Dichlorobenzene | mg/kg | ND | 0.010 | 02/04/16 11:41 | |
| 2-Butanone (MEK) | mg/kg | ND | 0.010 | 02/04/16 11:41 | |
| 2-Hexanone | mg/kg | ND | 0.010 | 02/04/16 11:41 | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | ND | 0.010 | 02/04/16 11:41 | |
| Acetone | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Benzene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| 1,1-Dibromodichloromethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Bromoform | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Bromomethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Carbon disulfide | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Carbon tetrachloride | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Chlorobenzene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Chloroethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Chloroform | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Chloromethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| cis-1,2-Dichloroethene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| cis-1,3-Dichloropropene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Dibromochloromethane | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Ethylbenzene | mg/kg | ND | 0.010 | 02/04/16 11:41 | |
| m&p-Xylene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Methyl-tert-butyl ether | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Methylene Chloride | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| o-Xylene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Styrene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Tetrachloroethene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Toluene | mg/kg | ND | 0.030 | 02/04/16 11:41 | |
| TOTAL BTEX | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| trans-1,2-Dichloroethene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| trans-1,3-Dichloropropene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Trichloroethene | mg/kg | ND | 0.0050 | 02/04/16 11:41 | |
| Vinyl chloride | mg/kg | ND | 0.015 | 02/04/16 11:41 | |
| Xylene (Total) | mg/kg | | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

METHOD BLANK: 1021070
Matrix: Solid
Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane-d4 (S) | % | 106 | 69-137 | 02/04/16 11:41 | |
| 4-Bromofluorobenzene (S) | % | 91 | 65-146 | 02/04/16 11:41 | |
| Dibromofluoromethane (S) | % | 101 | 70-130 | 02/04/16 11:41 | |
| Toluene-d8 (S) | % | 77 | 68-135 | 02/04/16 11:41 | |

LABORATORY CONTROL SAMPLE: 1021071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | mg/kg | .02 | 0.019 | 93 | 71-130 | |
| 1,1,2,2-Tetrachloroethane | mg/kg | .02 | 0.017 | 83 | 66-123 | |
| 1,1,2-Trichloroethane | mg/kg | .02 | 0.018 | 88 | 75-115 | |
| 1,1-Dichloroethane | mg/kg | .02 | 0.019 | 94 | 65-126 | |
| 1,1-Dichloroethene | mg/kg | .02 | 0.018 | 90 | 62-137 | |
| 1,2-Dichlorobenzene | mg/kg | .02 | 0.017 | 85 | 82-121 | |
| 1,2-Dichloroethane | mg/kg | .02 | 0.016 | 79 | 67-116 | |
| 1,2-Dichloropropane | mg/kg | .02 | 0.016 | 82 | 67-119 | |
| 1,3-Dichlorobenzene | mg/kg | .02 | 0.016 | 82 | 80-124 | |
| 1,3-Dichlorobenzene | mg/kg | .02 | 0.017 | 84 | 80-126 | |
| 1,4-Dichlorobenzene | mg/kg | .02 | 0.019 | 95 | 42-116 | |
| 2-Butanone (MEK) | mg/kg | .02 | 0.021 | 106 | 54-121 | |
| 2-Hexanone | mg/kg | .02 | 0.024 | 118 | 52-119 | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | .02 | 0.028 | 140 | 32-113 LO | |
| Acetone | mg/kg | .02 | 0.020 | 99 | 71-137 | |
| Benzene | mg/kg | .02 | 0.019 | 93 | 67-121 | |
| Bromodichloromethane | mg/kg | .02 | 0.017 | 85 | 58-122 | |
| Bromoform | mg/kg | .02 | 0.027 | 134 | 27-164 | |
| Bromomethane | mg/kg | .02 | 0.021 | 104 | 60-172 | |
| Carbon disulfide | mg/kg | .02 | 0.019 | 96 | 66-132 | |
| Carbon tetrachloride | mg/kg | .02 | 0.017 | 87 | 80-119 | |
| Chlorobenzene | mg/kg | .02 | 0.029 | 145 | 53-149 | |
| Chloroethane | mg/kg | .02 | 0.018 | 91 | 70-120 | |
| Chloroform | mg/kg | .02 | 0.026 | 132 | 47-147 | |
| Chloromethane | mg/kg | .02 | 0.017 | 87 | 64-120 | |
| cis-1,2-Dichloroethene | mg/kg | .02 | 0.018 | 90 | 67-123 | |
| cis-1,3-Dichloropropene | mg/kg | .02 | 0.017 | 84 | 67-120 | |
| Dibromochloromethane | mg/kg | .02 | 0.020 | 100 | 78-126 | |
| Ethylbenzene | mg/kg | .04 | 0.040 | 100 | 77-129 | |
| m&p-Xylene | mg/kg | .02 | 0.019 | 97 | 77-141 | |
| Methyl-tert-butyl ether | mg/kg | .02 | 0.020 | 98 | 50-125 | |
| Methylene Chloride | mg/kg | .02 | 0.019 | 94 | 80-125 | |
| o-Xylene | mg/kg | .02 | 0.020 | 99 | 79-130 | |
| Styrene | mg/kg | .02 | 0.018 | 89 | 73-135 | |
| Tetrachloroethene | mg/kg | .02 | 0.019 | 95 | 72-127 | |
| Toluene | mg/kg | | 0.12 | | | |
| TOTAL BTEX | | | | | | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

LABORATORY CONTROL SAMPLE: 1021071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| trans-1,2-Dichloroethene | mg/kg | .02 | 0.018 | 88 | 64-131 | |
| trans-1,3-Dichloropropene | mg/kg | .02 | 0.017 | 86 | 66-116 | |
| Trichloroethene | mg/kg | .02 | 0.018 | 89 | 73-125 | |
| Vinyl chloride | mg/kg | .02 | 0.019 | 95 | 46-138 | |
| Xylene (Total) | mg/kg | .06 | 0.059 | 98 | 80-124 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 97 | 69-137 | |
| 4-Bromofluorobenzene (S) | % | | | 97 | 65-146 | |
| Dibromofluoromethane (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 68-135 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: MSV/26932
QC Batch Method: EPA 5035A
Associated Lab Samples: 30171632007

Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low

Matrix: Solid

METHOD BLANK: 1021696
Associated Lab Samples: 30171632007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,1,2,2-Tetrachloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,1,2-Trichloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,1-Dichloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,1-Dichloroethene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,2-Dichlorobenzene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,2-Dichloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,2-Dichloropropane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,3-Dichlorobenzene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| 1,4-Dichlorobenzene | mg/kg | ND | 0.010 | 02/05/16 12:06 | M5 |
| 2-Butanone (MEK) | mg/kg | ND | 0.010 | 02/05/16 12:06 | M5 |
| 2-Hexanone | mg/kg | ND | 0.010 | 02/05/16 12:06 | M5 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | ND | 0.010 | 02/05/16 12:06 | M5 |
| Acetone | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| zene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| monodichloromethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Bromoform | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Bromomethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Carbon disulfide | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Carbon tetrachloride | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Chlorobenzene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Chloroethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Chloroform | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Chloromethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| cis-1,2-Dichloroethene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| cis-1,3-Dichloropropene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Dibromochloromethane | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Ethylbenzene | mg/kg | ND | 0.010 | 02/05/16 12:06 | M5 |
| m&p-Xylene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Methyl-tert-butyl ether | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Methylene Chloride | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| o-Xylene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Styrene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Tetrachloroethene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Toluene | mg/kg | ND | 0.030 | 02/05/16 12:06 | M5 |
| TOTAL BTEX | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| trans-1,2-Dichloroethene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| trans-1,3-Dichloropropene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Trichloroethene | mg/kg | ND | 0.0050 | 02/05/16 12:06 | M5 |
| Vinyl chloride | mg/kg | ND | 0.015 | 02/05/16 12:06 | M5 |
| Xylene (Total) | mg/kg | ND | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

METHOD BLANK: 1021696
Associated Lab Samples: 30171632007

Matrix: Solid

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane-d4 (S) | % | 99 | 69-137 | 02/05/16 12:06 | M5 |
| 4-Bromofluorobenzene (S) | % | 95 | 65-146 | 02/05/16 12:06 | M5 |
| Dibromofluoromethane (S) | % | 97 | 70-130 | 02/05/16 12:06 | M5 |
| Toluene-d8 (S) | % | 95 | 68-135 | 02/05/16 12:06 | M5 |

LABORATORY CONTROL SAMPLE: 1021697

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | mg/kg | .02 | 0.020 | 102 | 71-130 | M5 |
| 1,1,2,2-Tetrachloroethane | mg/kg | .02 | 0.016 | 82 | 66-123 | M5 |
| 1,1,2-Trichloroethane | mg/kg | .02 | 0.016 | 82 | 75-115 | M5 |
| 1,1-Dichloroethane | mg/kg | .02 | 0.018 | 92 | 65-126 | M5 |
| 1,1-Dichloroethene | mg/kg | .02 | 0.017 | 83 | 62-137 | M5 |
| 1,2-Dichlorobenzene | mg/kg | .02 | 0.017 | 83 | 82-121 | M5 |
| 1,2-Dichloroethane | mg/kg | .02 | 0.017 | 87 | 67-116 | M5 |
| 1,2-Dichloropropane | mg/kg | .02 | 0.016 | 80 | 67-119 | M5 |
| 1,3-Dichlorobenzene | mg/kg | .02 | 0.020 | 98 | 80-124 | M5 |
| 1,4-Dichlorobenzene | mg/kg | .02 | 0.020 | 99 | 80-126 | M5 |
| 2-Butanone (MEK) | mg/kg | .02 | 0.014 | 69 | 42-116 | M5 |
| 2-Hexanone | mg/kg | .02 | 0.015 | 75 | 54-121 | M5 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | .02 | 0.016 | 80 | 52-119 | M5 |
| Acetone | mg/kg | .02 | 0.018 | 88 | 32-113 | M5 |
| Benzene | mg/kg | .02 | 0.019 | 96 | 71-137 | M5 |
| Bromodichloromethane | mg/kg | .02 | 0.019 | 95 | 67-121 | M5 |
| Bromoform | mg/kg | .02 | 0.013 | 67 | 58-122 | M5 |
| Bromomethane | mg/kg | .02 | 0.023 | 116 | 27-164 | M5 |
| Carbon disulfide | mg/kg | .02 | 0.020 | 101 | 60-172 | M5 |
| Carbon tetrachloride | mg/kg | .02 | 0.021 | 107 | 66-132 | M5 |
| Chlorobenzene | mg/kg | .02 | 0.020 | 98 | 80-119 | M5 |
| Chloroethane | mg/kg | .02 | 0.015 | 75 | 53-149 | M5 |
| Chloroform | mg/kg | .02 | 0.018 | 92 | 70-120 | M5 |
| Chloromethane | mg/kg | .02 | 0.014 | 70 | 47-147 | M5 |
| cis-1,2-Dichloroethene | mg/kg | .02 | 0.019 | 93 | 64-120 | M5 |
| cis-1,3-Dichloropropene | mg/kg | .02 | 0.015 | 74 | 67-123 | M5 |
| Dibromochloromethane | mg/kg | .02 | 0.016 | 82 | 67-120 | M5 |
| Ethylbenzene | mg/kg | .04 | 0.021 | 104 | 78-126 | M5 |
| m&p-Xylene | mg/kg | .02 | 0.042 | 105 | 77-129 | M5 |
| Methyl-tert-butyl ether | mg/kg | .02 | 0.018 | 89 | 77-141 | M5 |
| Methylene Chloride | mg/kg | .02 | 0.018 | 91 | 50-125 | M5 |
| o-Xylene | mg/kg | .02 | 0.021 | 106 | 80-125 | M5 |
| Styrene | mg/kg | .02 | 0.020 | 101 | 79-130 | M5 |
| Tetrachloroethene | mg/kg | .02 | 0.021 | 104 | 73-135 | M5 |
| Toluene | mg/kg | | 0.019 | 94 | 72-127 | M5 |
| TOTAL BTEX | mg/kg | | 0.12 | | | M5 |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

LABORATORY CONTROL SAMPLE: 1021697

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| trans-1,2-Dichloroethene | mg/kg | .02 | 0.018 | 88 | 64-131 | M5 |
| trans-1,3-Dichloropropene | mg/kg | .02 | 0.017 | 87 | 66-116 | M5 |
| Trichloroethene | mg/kg | .02 | 0.020 | 99 | 73-125 | M5 |
| Vinyl chloride | mg/kg | .02 | 0.016 | 78 | 46-138 | M5 |
| Xylene (Total) | mg/kg | .06 | 0.063 | 105 | 80-124 | M5 |
| 1,2-Dichloroethane-d4 (S) | % | | | 98 | 69-137 | M5 |
| 4-Bromofluorobenzene (S) | % | | | 93 | 65-146 | M5 |
| Dibromofluoromethane (S) | % | | | 100 | 70-130 | M5 |
| Toluene-d8 (S) | % | | | 96 | 68-135 | M5 |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632
 QC Batch: MSV/26957
 QC Batch Method: EPA 8260B
 Analysis Method: EPA 8260B
 Analysis Description: 8260B MSV
 Associated Lab Samples: 30171632009, 30171632010, 30171632011

METHOD BLANK: 1022604
 Matrix: Water
 Associated Lab Samples: 30171632009, 30171632010, 30171632011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | ND | 50.0 | 02/06/16 22:00 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 2.0 | 02/06/16 22:00 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 5.0 | 02/06/16 22:00 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| 1,4-Dichlorobenzene | ug/L | ND | 100 | 02/06/16 22:00 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| 2-Butanone (MEK) | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| 2-Hexanone | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| Acetone | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Benzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Bromochloromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Bromoform | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Bromomethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Carbon disulfide | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Chlorobenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Chloroethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Chloroform | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Chloromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| cis-1,3-Dichloropropene | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| Cyclohexane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Ethylbenzene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 1.0 | 02/06/16 22:00 | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

METHOD BLANK: 1022604
Matrix: Water

Associated Lab Samples: 30171632009, 30171632010, 30171632011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| m&p-Xylene | ug/L | ND | 2.0 | 02/06/16 22:00 | |
| Methyl acetate | ug/L | ND | 5.0 | 02/06/16 22:00 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Methylcyclohexane | ug/L | ND | 10.0 | 02/06/16 22:00 | |
| Methylene Chloride | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| o-Xylene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Styrene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Toluene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Trichloroethene | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 02/06/16 22:00 | |
| Vinyl chloride | ug/L | 109 | 77-126 | 02/06/16 22:00 | |
| 1,2-Dichloroethane-d4 (S) | % | 109 | 81-119 | 02/06/16 22:00 | |
| 4-Bromofluorobenzene (S) | % | 114 | 70-130 | 02/06/16 22:00 | |
| Dibromofluoromethane (S) | % | 91 | 84-115 | 02/06/16 22:00 | |
| Toluene-d8 (S) | % | | | | |

LABORATORY CONTROL SAMPLE: 1022605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 20 | 20.4 | 102 | 67-129 | |
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 17.0 | 85 | 58-128 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 17.5 | 87 | 69-120 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 22.2J | 111 | 48-171 | |
| 1,1-Dichloroethane | ug/L | 20 | 20.7 | 104 | 66-129 | |
| 1,1-Dichloroethene | ug/L | 20 | 20.3 | 102 | 59-133 | |
| 1,2,3-Trichlorobenzene | ug/L | 20 | 20.4 | 102 | 50-156 | |
| 1,2,4-Trichlorobenzene | ug/L | 20 | 17.7 | 88 | 32-159 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 17.2 | 86 | 75-128 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 20 | 16.4 | 82 | 41-136 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 17.9 | 90 | 66-124 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 15.7 | 78 | 67-128 | |
| 1,2-Dichloroethane | ug/L | 20 | 19.9 | 100 | 66-123 | |
| 1,2-Dichloropropane | ug/L | 20 | 20.8 | 104 | 69-121 | |
| 1,3,5-Trimethylbenzene | ug/L | 20 | 17.3 | 87 | 74-125 | |
| 1,3-Dichlorobenzene | ug/L | 20 | 16.4 | 82 | 68-121 | |
| 1,3-Dichloropropane | ug/L | 20 | 17.5 | 87 | 73-119 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 16.7 | 83 | 70-117 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 200 | 189 | 95 | 18-175 | |
| 2-Butanone (MEK) | ug/L | 20 | 17.6 | 88 | 57-126 | |
| 2-Hexanone | ug/L | 20 | 16.5 | 83 | 57-129 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 20 | 22.6 | 113 | 65-119 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

LABORATORY CONTROL SAMPLE: 1022605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Acetone | ug/L | 20 | 22.5 | 113 | 35-113 | |
| Benzene | ug/L | 20 | 21.2 | 106 | 69-115 | |
| Bromochloromethane | ug/L | 20 | 21.2 | 106 | 62-125 | |
| Bromodichloromethane | ug/L | 20 | 22.3 | 112 | 69-132 | |
| Bromoform | ug/L | 20 | 18.5 | 93 | 52-142 | |
| Bromomethane | ug/L | 20 | 17.5 | 87 | 14-151 | |
| Carbon disulfide | ug/L | 20 | 24.1 | 120 | 53-156 | |
| Carbon tetrachloride | ug/L | 20 | 22.4 | 112 | 65-138 | |
| Chlorobenzene | ug/L | 20 | 16.6 | 83 | 69-120 | |
| Chloroethane | ug/L | 20 | 20.6 | 103 | 62-134 | |
| Chloroform | ug/L | 20 | 20.4 | 102 | 67-123 | |
| Chloromethane | ug/L | 20 | 16.9 | 84 | 54-143 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 20.8 | 104 | 66-122 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 20.3 | 101 | 64-125 | |
| Cyclohexane | ug/L | 20 | 23.8 | 119 | 36-165 | |
| Dibromochloromethane | ug/L | 20 | 19.1 | 95 | 61-135 | |
| Dichlorodifluoromethane | ug/L | 20 | 19.6 | 98 | 26-173 | |
| Ethylbenzene | ug/L | 20 | 16.8 | 84 | 71-116 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 17.8 | 89 | 79-121 | |
| m,p-Xylene | ug/L | 40 | 33.6 | 84 | 74-118 | |
| n-Butyl acetate | ug/L | 20 | 25.7 | 128 | 41-155 | |
| Methyl-tert-butyl ether | ug/L | 20 | 19.7 | 99 | 83-140 | |
| Methylcyclohexane | ug/L | 20 | 23.3 | 117 | 51-152 | |
| Methylene Chloride | ug/L | 20 | 18.2 | 91 | 56-130 | |
| o-Xylene | ug/L | 20 | 16.5 | 83 | 71-119 | |
| Styrene | ug/L | 20 | 16.3 | 82 | 71-129 | |
| Tetrachloroethene | ug/L | 20 | 16.8 | 84 | 62-122 | |
| Toluene | ug/L | 20 | 17.8 | 89 | 70-115 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 20.3 | 102 | 63-130 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 16.9 | 85 | 62-122 | |
| Trichloroethene | ug/L | 20 | 21.0 | 105 | 61-126 | |
| Trichlorofluoromethane | ug/L | 20 | 20.9 | 104 | 64-133 | |
| Vinyl chloride | % | 20 | 17.9 | 90 | 58-127 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 107 | 77-126 | |
| 4-Bromofluorobenzene (S) | % | | | 112 | 81-119 | |
| Dibromofluoromethane (S) | % | | | 111 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 84-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1022606 1022607

| Parameter | Units | 30172486004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| 1,1,1-Trichloroethane | ug/L | 1.0 U | 20 | 20 | 21.9 | 23.2 | 110 | 116 | 54-140 | 5 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 1.0 U | 20 | 20 | 15.9 | 17.3 | 80 | 87 | 54-124 | 9 | |
| 1,1,2-Trichloroethane | ug/L | 1.0 U | 20 | 20 | 16.7 | 16.2 | 83 | 81 | 58-120 | 3 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Parameter | Units | 1022606 | | 1022607 | | MS % Rec | MSD % Rec | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|-------------|--------------|-------------|--------------|-----------------|-------|------|
| | | 30172488004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 50.0 U | 20 | 20 | 20J | 19.6J | 100 | 98 | 41-186 | | | |
| 1,1-Dichloroethane | ug/L | 1.0 U | 20 | 20 | 21.6 | 22.3 | 108 | 111 | 55-133 | 3 | | |
| 1,1-Dichloroethene | ug/L | 1.0 U | 20 | 20 | 21.5 | 22.3 | 108 | 112 | 48-141 | 4 | | |
| 1,2,3-Trichlorobenzene | ug/L | 2.0 U | 20 | 20 | 14.0 | 18.8 | 70 | 94 | 40-123 | 29 | | |
| 1,2,4-Trichlorobenzene | ug/L | 1.0 U | 20 | 20 | 13.7 | 17.0 | 68 | 85 | 33-130 | 22 | | |
| 1,2,4-Trimethylbenzene | ug/L | 1.0 U | 20 | 20 | 16.6 | 17.9 | 83 | 90 | 69-121 | 8 | | |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 U | 20 | 20 | 15.8 | 17.9 | 79 | 89 | 23-126 | 13 | | |
| 1,2-Dibromoethane (EDB) | ug/L | 1.0 U | 20 | 20 | 17.2 | 17.8 | 86 | 89 | 58-115 | 3 | | |
| 1,2-Dichlorobenzene | ug/L | 1.0 U | 20 | 20 | 14.9 | 16.4 | 75 | 82 | 57-124 | 10 | | |
| 1,2-Dichloroethane | ug/L | 1.0 U | 20 | 20 | 20.2 | 20.8 | 101 | 104 | 58-123 | 3 | | |
| 1,2-Dichloropropane | ug/L | 1.0 U | 20 | 20 | 20.8 | 21.5 | 104 | 108 | 55-125 | 4 | | |
| 1,3,5-Trimethylbenzene | ug/L | 1.0 U | 20 | 20 | 15.9 | 18.1 | 79 | 90 | 68-118 | 13 | | |
| 1,3-Dichlorobenzene | ug/L | 1.0 U | 20 | 20 | 15.6 | 17.2 | 78 | 86 | 62-113 | 9 | | |
| 1,3-Dichloropropane | ug/L | 1.0 U | 20 | 20 | 16.5 | 16.6 | 82 | 83 | 59-120 | 0 | | |
| 1,4-Dichlorobenzene | ug/L | 1.0 U | 20 | 20 | 15.1 | 16.9 | 75 | 84 | 61-111 | 12 | | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 100 U | 200 | 200 | 259 | 229 | 130 | 114 | 27-171 | 12 | | |
| 2-Butanone (MEK) | ug/L | 10.0 U | 20 | 20 | 19.0 | 19.3 | 95 | 97 | 43-128 | 1 | | |
| 2-Hexanone | ug/L | 10.0 U | 20 | 20 | 15.7 | 15.0 | 79 | 75 | 43-135 | 5 | | |
| Methyl-2-pentanone (MIBK) | ug/L | 4.4J | 20 | 20 | 26.6 | 25.9 | 111 | 108 | 47-123 | 3 | | |
| acetone | ug/L | 7.2J | 20 | 20 | 27.9 | 41.0 | 104 | 169 | 10-150 | 38 | M1,R1 | |
| Benzene | ug/L | 1.0 U | 20 | 20 | 21.5 | 23.2 | 107 | 116 | 63-123 | 8 | | |
| Bromochloromethane | ug/L | 1.0 U | 20 | 20 | 23.0 | 23.8 | 115 | 119 | 42-149 | 4 | | |
| Bromodichloromethane | ug/L | 1.0 U | 20 | 20 | 22.1 | 23.2 | 110 | 116 | 55-127 | 5 | | |
| Bromoform | ug/L | 1.0 U | 20 | 20 | 16.8 | 18.9 | 84 | 94 | 44-131 | 11 | | |
| Bromomethane | ug/L | 1.0 U | 20 | 20 | 13.3 | 15.4 | 66 | 77 | 10-149 | 15 | | |
| Carbon disulfide | ug/L | 1.0 U | 20 | 20 | 22.4 | 22.1 | 112 | 110 | 47-158 | 1 | | |
| Carbon tetrachloride | ug/L | 1.0 U | 20 | 20 | 22.8 | 24.7 | 114 | 123 | 44-155 | 8 | | |
| Chlorobenzene | ug/L | 1.0 U | 20 | 20 | 15.4 | 16.1 | 77 | 80 | 57-121 | 4 | | |
| Chloroethane | ug/L | 1.0 U | 20 | 20 | 20.7 | 20.4 | 104 | 102 | 57-156 | 1 | | |
| Chloroform | ug/L | 1.0 U | 20 | 20 | 20.9 | 22.4 | 105 | 112 | 56-132 | 7 | | |
| Chloromethane | ug/L | 1.0 U | 20 | 20 | 18.6 | 17.6 | 93 | 88 | 42-163 | 5 | | |
| cis-1,2-Dichloroethene | ug/L | 1.0 U | 20 | 20 | 21.1 | 22.6 | 106 | 113 | 46-139 | 7 | | |
| cis-1,3-Dichloropropene | ug/L | 1.0 U | 20 | 20 | 20.1 | 20.9 | 100 | 104 | 55-119 | 4 | | |
| Cyclohexane | ug/L | 10.0 U | 20 | 20 | 20.8 | 20.1 | 104 | 100 | 24-167 | 4 | | |
| Dibromochloromethane | ug/L | 1.0 U | 20 | 20 | 17.2 | 17.9 | 86 | 90 | 52-129 | 4 | | |
| Dichlorodifluoromethane | ug/L | 1.0 U | 20 | 20 | 19.4 | 18.1 | 97 | 90 | 10-175 | 7 | | |
| Ethylbenzene | ug/L | 1.0 U | 20 | 20 | 16.8 | 17.5 | 84 | 88 | 70-120 | 4 | | |
| Isopropylbenzene (Cumene) | ug/L | 1.0 U | 20 | 20 | 17.8 | 19.0 | 89 | 95 | 71-129 | 7 | | |
| m&p-Xylene | ug/L | 2.0 U | 40 | 40 | 31.6 | 33.4 | 79 | 84 | 70-123 | 6 | | |
| Methyl acetate | ug/L | 5.0 U | 20 | 20 | 23.6 | 22.8 | 118 | 114 | 25-127 | 4 | | |
| Methyl-tert-butyl ether | ug/L | 1.0 U | 20 | 20 | 18.5 | 18.1 | 92 | 91 | 63-143 | 2 | | |
| Methylcyclohexane | ug/L | 10.0 U | 20 | 20 | 21.0 | 19.6 | 105 | 98 | 39-173 | 7 | | |
| Methylene Chloride | ug/L | 1.0 U | 20 | 20 | 18.9 | 19.2 | 94 | 96 | 38-134 | 2 | | |
| o-Xylene | ug/L | 1.0 U | 20 | 20 | 16.1 | 16.5 | 80 | 83 | 68-122 | 3 | | |
| Styrene | ug/L | 1.0 U | 20 | 20 | 14.9 | 15.7 | 75 | 78 | 49-135 | 5 | | |
| Tetrachloroethene | ug/L | 1.0 U | 20 | 20 | 16.0 | 16.7 | 80 | 83 | 53-125 | 4 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Parameter | Units | 1022606 | | 1022607 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|-----------------------|----------------------|-----------------------|--------------|-------------|--------------|-----------------|--------|------|
| | | 30172488004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | |
| Toluene | ug/L | 1.0 U | 20 | 20 | 16.7 | 17.3 | 83 | 86 | 66-124 | 4 |
| trans-1,2-Dichloroethene | ug/L | 1.0 U | 20 | 20 | 20.7 | 22.6 | 103 | 113 | 52-136 | 9 |
| trans-1,3-Dichloropropene | ug/L | 1.0 U | 20 | 20 | 15.4 | 15.9 | 77 | 79 | 54-118 | 3 |
| Trichloroethene | ug/L | 1.0 U | 20 | 20 | 20.9 | 22.4 | 105 | 112 | 50-127 | 7 |
| Trichlorofluoromethane | ug/L | 1.0 U | 20 | 20 | 22.2 | 21.1 | 111 | 106 | 63-167 | 5 |
| Vinyl chloride | ug/L | 1.0 U | 20 | 20 | 20.3 | 20.6 | 102 | 103 | 54-149 | 1 |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 104 | 110 | 77-126 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 108 | 112 | 81-119 | |
| Dibromofluoromethane (S) | % | | | | | | 115 | 115 | 70-130 | |
| Toluene-d8 (S) | % | | | | | | 91 | 86 | 84-115 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: OEXT/27094
QC Batch Method: EPA 3546
Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

Analysis Method: EPA 8270C by SIM

Analysis Description: 8270/3546 MSSV PAH by SIM

Matrix: Solid

METHOD BLANK: 1022509

Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Acenaphthene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Acenaphthylene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Anthracene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Benzo(a)anthracene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Benzo(a)pyrene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Benzo(b)fluoranthene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Benzo(g,h,i)perylene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Benzo(k)fluoranthene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Chrysene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Dibenz(a,h)anthracene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Fluoranthene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Fluorene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Naphthalene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Phenanthrene | mg/kg | ND | 0.0067 | 02/09/16 10:02 | |
| Pyrene | % | 84 | 35-141 | 02/09/16 10:02 | |
| 2-Fluorobiphenyl (S) | % | 82 | 64-141 | 02/09/16 10:02 | |
| Terphenyl-d14 (S) | | | | | |

LABORATORY CONTROL SAMPLE: 1022510

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Acenaphthene | mg/kg | .13 | 0.13 | 94 | 43-113 | |
| Acenaphthylene | mg/kg | .13 | 0.091 | 68 | 41-114 | |
| Anthracene | mg/kg | .13 | 0.13 | 95 | 59-115 | |
| Benzo(a)anthracene | mg/kg | .13 | 0.11 | 82 | 62-122 | |
| Benzo(a)pyrene | mg/kg | .13 | 0.13 | 95 | 56-113 | |
| Benzo(b)fluoranthene | mg/kg | .13 | 0.13 | 84 | 43-138 | |
| Benzo(g,h,i)perylene | mg/kg | .13 | 0.13 | 96 | 47-143 | |
| Benzo(k)fluoranthene | mg/kg | .13 | 0.12 | 90 | 52-138 | |
| Chrysene | mg/kg | .13 | 0.13 | 101 | 64-119 | |
| Dibenz(a,h)anthracene | mg/kg | .13 | 0.13 | 97 | 59-133 | |
| Fluoranthene | mg/kg | .13 | 0.13 | 93 | 64-122 | |
| Fluorene | mg/kg | .13 | 0.12 | 93 | 46-114 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | .13 | 0.12 | 96 | 59-132 | |
| Naphthalene | mg/kg | .13 | 0.13 | 96 | 59-132 | |
| Phenanthrene | mg/kg | .13 | 0.12 | 88 | 47-108 | |
| Pyrene | mg/kg | .13 | 0.10 | 78 | 42-122 | |
| | | | 0.13 | 95 | 64-117 | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
 Pace Project No.: 30171632

LABORATORY CONTROL SAMPLE: 1022510

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Fluorobiphenyl (S) | % | | | 72 | 35-141 | |
| Terphenyl-d14 (S) | % | | | 93 | 64-141 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1022511 1022512

| Parameter | Units | 30171632008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|-------|
| Acenaphthene | mg/kg | ND | .13 | .13 | .12J | ND | 88 | 95 | 43-113 | | |
| Acenaphthylene | mg/kg | ND | .13 | .13 | 0.15 | 0.19 | 81 | 110 | 41-114 | 22 | R1 |
| Anthracene | mg/kg | ND | .13 | .13 | 0.18 | 0.37 | 86 | 235 | 59-115 | 71 | M6,R1 |
| Benzo(a)anthracene | mg/kg | 0.23 | .13 | .13 | 0.49 | 0.79 | 199 | 424 | 62-122 | 46 | M6,R1 |
| Benzo(a)pyrene | mg/kg | 0.15 | .13 | .13 | 0.50 | 0.91 | 263 | 581 | 56-113 | 59 | M6,R1 |
| Benzo(b)fluoranthene | mg/kg | 0.33 | .13 | .13 | 0.83 | 1.3 | 221 | 696 | 43-138 | 67 | M6,R1 |
| Benzo(g,h,i)perylene | mg/kg | 0.16 | .13 | .13 | 0.35 | 0.49 | 136 | 245 | 47-143 | 34 | M6,R1 |
| Benzo(k)fluoranthene | mg/kg | 0.16 | .13 | .13 | 0.37 | 0.70 | 158 | 406 | 52-138 | 61 | M6,R1 |
| Chrysene | mg/kg | 0.18 | .13 | .13 | 0.47 | 0.72 | 217 | 404 | 64-119 | 41 | M6,R1 |
| Dibenz(a,h)anthracene | mg/kg | 0.20 | .13 | .13 | 0.20 | 0.28 | 114 | 178 | 59-133 | 35 | M6,R1 |
| Fluoranthene | mg/kg | ND | .13 | .13 | 0.54 | 1.4 | 258 | 876 | 64-122 | 86 | M6,R1 |
| Fluorene | mg/kg | ND | .13 | .13 | ND | .11J | 96 | 84 | 46-114 | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.18 | .13 | .13 | 0.32 | 0.50 | 136 | 275 | 59-132 | 45 | M6,R1 |
| Naphthalene | mg/kg | ND | .13 | .13 | 0.33 | 0.43 | 109 | 182 | 47-108 | 25 | M6,R1 |
| Phenanthrene | mg/kg | 0.25 | .13 | .13 | 0.24 | 0.76 | 105 | 506 | 42-122 | 106 | M6,R1 |
| Pyrene | % | | | | 0.67 | 1.3 | 312 | 829 | 64-117 | 67 | M6,R1 |
| 2-Fluorobiphenyl (S) | % | | | | | | 87 | 84 | 35-141 | | |
| Terphenyl-d14 (S) | % | | | | | | 73 | 80 | 64-141 | | |

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QUALITY CONTROL DATA

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

QC Batch: PMST/5924
QC Batch Method: Dry Weight
Associated Lab Samples: 30171632001, 30171632002, 30171632003, 30171632004, 30171632005, 30171632006, 30171632007, 30171632008

SAMPLE DUPLICATE: 1020522

| Parameter | Units | 30171629004 Result | Dup Result | RPD | Qualifiers |
|------------------|-------|--------------------|------------|-----|------------|
| Percent Moisture | % | 20.1 | 18.7 | 7 | |

SAMPLE DUPLICATE: 1020525

| Parameter | Units | 30171629006 Result | Dup Result | RPD | Qualifiers |
|------------------|-------|--------------------|------------|-------|------------|
| Percent Moisture | % | 17.0 | 8.1 | 71 D6 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PAS1-PA Pace Analytical Services - Greensburg

SAMPLE QUALIFIERS

Sample: 1022511
[1] 8270SJMCR: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
Sample: 1022512
[1] 8270SJMCR: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

BATCH QUALIFIERS

Batch: MSV/26922
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/26932
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/26940
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H3 Sample was received or analysis requested beyond the recognized method holding time.
L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

ANALYTE QUALIFIERS

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|------------|-------------------|------------------|
| 30171632001 | GP-01:11-13:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632002 | GP-02:19-21:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632003 | GP-03:6-8:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632004 | GP-03:20-22:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632005 | GP-04:21-23:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632006 | GP-05:11-12:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632007 | GP-06:14-16:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632008 | GP-07:1-2:S | EPA 3050B | MPRP/17506 | EPA 6010B | ICP/16627 |
| 30171632009 | GP-02:201601:W | EPA 3005A | MPRP/17513 | EPA 6010B | ICP/16631 |
| 30171632010 | GP-05:201601:W | EPA 3005A | MPRP/17513 | EPA 6010B | ICP/16631 |
| 30171632011 | GP-06:201601:W | EPA 3005A | MPRP/17513 | EPA 6010B | ICP/16631 |
| 30171632009 | GP-02:201601:W | EPA 7470A | MERP/7369 | EPA 7470A | MERC/7048 |
| 30171632010 | GP-05:201601:W | EPA 7470A | MERP/7369 | EPA 7470A | MERC/7048 |
| 30171632011 | GP-06:201601:W | EPA 7470A | MERP/7369 | EPA 7470A | MERC/7048 |
| 30171632001 | GP-01:11-13:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632002 | GP-02:19-21:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632003 | GP-03:6-8:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632004 | GP-03:20-22:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632005 | GP-04:21-23:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632006 | GP-05:11-12:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632007 | GP-06:14-16:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632008 | GP-07:1-2:S | EPA 7471A | MERP/7355 | EPA 7471A | MERC/7034 |
| 30171632001 | GP-01:11-13:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632002 | GP-02:19-21:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632003 | GP-03:6-8:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632004 | GP-03:20-22:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632005 | GP-04:21-23:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632006 | GP-05:11-12:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632007 | GP-06:14-16:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632008 | GP-07:1-2:S | EPA 3546 | OEXT/27094 | EPA 8270C by SIM | MSSV/8850 |
| 30171632001 | GP-01:11-13:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632002 | GP-02:19-21:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632003 | GP-03:6-8:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632004 | GP-03:20-22:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632005 | GP-04:21-23:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632006 | GP-05:11-12:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632007 | GP-06:14-16:S | EPA 5035A | MSV/26932 | EPA 8260B | MSV/26940 |
| 30171632008 | GP-07:1-2:S | EPA 5035A | MSV/26922 | EPA 8260B | MSV/26928 |
| 30171632009 | GP-02:201601:W | EPA 8260B | MSV/26957 | EPA 8260B | MSV/26957 |
| 30171632010 | GP-05:201601:W | EPA 8260B | MSV/26957 | EPA 8260B | MSV/26957 |
| 30171632011 | GP-06:201601:W | EPA 8260B | MSV/26957 | EPA 8260B | MSV/26957 |
| 30171632001 | GP-01:11-13:S | Dry Weight | PMST/5924 | PMST/5924 | PMST/5924 |
| 30171632002 | GP-02:19-21:S | Dry Weight | PMST/5924 | PMST/5924 | PMST/5924 |
| 30171632003 | GP-03:6-8:S | Dry Weight | PMST/5924 | PMST/5924 | PMST/5924 |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15106-LINCOLN HIGHWAY
Pace Project No.: 30171632

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|-----------|-------------------|------------------|
| 30171632004 | GP-03:20-22:S | Dry Weight | PMST/5924 | | |
| 30171632005 | GP-04:21-23:S | Dry Weight | PMST/5924 | | |
| 30171632006 | GP-05:11-12:S | Dry Weight | PMST/5924 | | |
| 30171632007 | GP-06:14-16:S | Dry Weight | PMST/5924 | | |
| 30171632008 | GP-07:1-2:S | Dry Weight | PMST/5924 | | |

REPORT OF LABORATORY ANALYSIS

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3925 Reed Boulevard, Suite 400
Murrysville, PA 15668-1848
Phone: (724) 733-7003
Fax: (724) 733-1003

CHAIN OF CUSTODY RECORD

Project No. 06-003
Project Manager: 18th Lincoln Highway
id Personage: 15106-LINCOLN HIGHWAY
PM Sign-Off: 30171632-4511

Arrival Around Time: _____ Standard _____
Equipment Method: _____ Pickup _____
Email Results (Yes/No) (Yes) / No) _____ DQL _____

| Sample No. | Date | Time | Description | Preservative (specify type) | | | Check Required Analysis (if other please specify) | | | | | | | | | | | | | Comments/Special Instructions | | | | | | | |
|------------|-----------|------|----------------|-----------------------------|------|-----------|---|------------|------|------------|---------------------|--------------|--------------|------------------|--------------|------------------------|------|--------------|------------|-------------------------------|-------------------------|-----------------------|-------------------|----------------|----------------|------------------------|---------------------|
| | | | | Matrix (S,L,G) | Grab | Composite | No. of Containers | VOCS (TCL) | PAHs | Pesticides | PCB (wipe/bulk/cor) | Total Metals | RCRA PPL/TAL | DisSolved Metals | RCRA PPL/TAL | Lead (Total/Dissolved) | BTEX | Unleaded Gas | Leaded Gas | | Kerosene/Fuel Oil No. 1 | Diesel/Fuel Oil No. 2 | FO 4,5,6/Lube Oil | Used Motor Oil | Asbestos (PLM) | Asbestos (Point Count) | Preserved? (Yes/No) |
| P-01 | 1/26/2015 | 1240 | GP-01:11-13:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 001 |
| P-02 | 1/25/2016 | 1315 | GP-02:19-21:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 002 |
| P-03 | 1/25/2016 | 1455 | GP-03:6-8:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 003 |
| GP-03 | 1/25/2016 | 1500 | GP-03:20-22:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 001 |
| GP-04 | 1/25/2016 | 1625 | GP-04:21-23:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 005 |
| GP-05 | 1/25/2016 | 920 | GP-05:11-12:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 006 |
| GP-06 | 1/25/2016 | 1050 | GP-06:14-16:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 007 |
| GP-07 | 1/25/2016 | 1130 | GP-07:1-2:S | S | X | | 2 | X | X | | | | | | | | | | | | | | | | | | 008 |
| GP-02 | 1/26/2016 | 1310 | GP-02:201601:W | L | X | | 4 | X | | | | | | | | | | | | | | | | | | | 009 |
| GP-05 | 1/26/2016 | 1420 | GP-05:201601:W | L | X | | 4 | X | | | | | | | | | | | | | | | | | | | 016 |
| GP-06 | 1/26/2016 | 1445 | GP-06:201601:W | L | X | | 4 | X | | | | | | | | | | | | | | | | | | | 011 |

Date: 1-26-15

Received by: (Signature and Printed Name) [Signature] Date/Time: 1-27-16 9:25

Received by: (Signature and Printed Name) [Signature] Date/Time: 1-27-16 12:10

Shipped to: _____

Sample Condition Upon Receipt

30171632

Pace Analytical

Client Name: AGI

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap _____ Bubble Bags _____ None _____ Other: foam
Thermometer Used _____ Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 15 °C Correction Factor: 0.0 °C Final Temp: 1.5 °C

Date and Initials of person examining contents: ARM 12/1/10

| Temp should be above freezing to 6°C | Yes | No | N/A | Comments: |
|--|-------------------------------------|--------------------------|--------------------------|---|
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5 |
| Short Hold Time Analysis (<72hr): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10 |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11 |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12: No T.D. / date / time on suit kits |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13: No / date / time on zip bags OK 11/28/10 |
| -Includes date/time/ID/Analysis Matrix: <u>SL, WT</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>ARM</u> Lot # of added preservative: _____ |
| Exceptions: <u>VOA, Coliform, TOC, O&G, Phenols</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Samples checked for dechlorination: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14 |
| Headspace in VOA Vials (>8mm): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15 |
| Trip Blank Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16 |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Pace Trip Blank Lot # (if purchased): | | | | |

Field Data Required? Y / N

Client Notification/ Resolution: _____ Date/Time: _____
Person Contacted: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 11/28/10

30171632

page 2

Project Number:

Client Name:

Face Analytical

| Item No. | Matrix Code | Glass Jar (120 / 250 / 500 / 1L) | Soil Kit (2 SB, 1M, soil jar) | Chemistry (250 / 500 / 1L) | Organics (1L) | Nutrient (250 / 500) | Phenolics (250 ml) | TOC (40 ml / 250 ml) | TOX (250 ml) | Total Metals | Dissolved Metals preserved | O & G (1L) | TPH (1L) | VOC (40 ml / 30 ml) | Cyanide (250 ml) | Sulfide (500 ml) | Bacteria (120 ml) | Vipes / swipe/ smear/ filter | Radchem Nalgene (125 / 250 / 500 / 1L) | Radchem Nalgene (1/2 gal. / 1 gal.L) | Cubitainer (500 ml / 4L) | Ziploc | Other | Other |
|----------|-------------|----------------------------------|-------------------------------|----------------------------|---------------|----------------------|--------------------|----------------------|--------------|--------------|----------------------------|------------|----------|---------------------|------------------|------------------|-------------------|------------------------------|--|--------------------------------------|--------------------------|--------|-------|-------|
| 001 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 002 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 003 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 004 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 005 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 006 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 007 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 008 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 009 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 010 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 011 | 100 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |

SCURF Back (C016-1 15May2012).xls



2/1/2016

Mr. Dave Parsonage
American Geosciences, Inc.
3925 Reed Blvd., Ste 400
Murrysville, PA 15668

Dear Dave:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on January 26, 2016 for your project; 15106 - 003 - North Versailles.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

A handwritten signature in black ink, appearing to read "David J. Masdea".

David J. Masdea

Enclosure:



Data Qualifiers

ND / U - Not Detected at or above the lower reporting limit

E - Concentration of analyte exceeds the range of the calibration curve when volume collected is 1 Liter or greater.



Volatile Organics Analysis Data

| | | | |
|-------------------|--|------------------|------------------|
| File Name: | C:\TurboMass\TD1.PRO\Data\012716_004.raw | Sample Vol (L): | 0.250 |
| Sample ID: | VP02:201601:V | Matrix: | Air |
| Lab Project: | AGI51-6029 | Tube S/N: | G0151430 |
| Inject Date/Time: | January 27, 2016 1:10:16 PM | Tune File: | 11-05-15.IPR |
| Instrument: | ATD/GC/MS | MS Method: | TO_17B.EXP |
| GC Method: | TO_17B.mth | Last Updated: | January 26, 2016 |
| Quantify Method: | MM_9_325_IS | Date Sampled: | January 26, 2016 |
| Calibration File: | MM_9_325_IS | Date Received: | January 26, 2016 |
| Operator: | JM | Dilution Factor: | 1.0 |
| Description: | 15106-003 - 1810 Lincoln Hwy, N. Versailles | | |

| CAS Number | Compound | Result (ug/m3) | Reporting Limit | Qualifier |
|------------|--------------------------|----------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | U |
| 74-87-3 | Chloromethane | ND | 10.0 | U |
| 75-01-4 | Vinyl Chloride | ND | 10.0 | U |
| 74-83-9 | Bromomethane | ND | 10.0 | U |
| 74-00-3 | Chloroethane | ND | 10.0 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | U |
| 60-29-7 | Diethyl ether | 11.3 | 10.0 | |
| 75-35-4 | 1,1-Dichloroethene | 10.4 | 10.0 | |
| 75-05-8 | Acetonitrile | 22.9 | 10.0 | |
| 75-15-0 | Carbon disulfide | ND | 10.0 | U |
| 107-05-1 | 3-Chloropropene | ND | 10.0 | U |
| 75-09-2 | Methylene Chloride | ND | 10.0 | U |
| 107-13-1 | Acrylonitrile | ND | 10.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 10.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 10.0 | U |
| 96-33-3 | Methyl acrylate | ND | 10.0 | U |
| 126-98-7 | Methacrylonitrile | ND | 10.0 | U |
| 109-99-9 | Tetrahydrofuran | ND | 10.0 | U |
| 67-66-3 | Chloroform | 322.2 | 10.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | U |
| 56-23-5 | Carbon Tetrachloride | 21.9 | 10.0 | |
| 71-43-2 | Benzene | ND | 10.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 68.4 | 10.0 | |
| 79-01-6 | Trichloroethene | ND | 10.0 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | U |
| 80-62-6 | Methyl methacrylate | ND | 10.0 | U |
| 123-91-1 | 1,4-Dioxane | ND | 10.0 | U |
| 74-95-3 | Dibromomethane | ND | 10.0 | U |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | U |
| 79-46-9 | 2-Nitropropane | ND | 10.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.7 | 10.0 | |
| 108-88-3 | Toluene | ND | 10.0 | U |
| 97-63-2 | Ethyl methacrylate | ND | 10.0 | U |



Volatile Organics Analysis Data

| CAS Number | Compound | Result (ug/m3) | Reporting Limit | Qualifier |
|------------|-----------------------------|----------------|-----------------|-----------|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | U |
| 127-18-4 | Tetrachloroethene | 10.1 | 10.0 | |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | U |
| 108-90-7 | Chlorobenzene | ND | 10.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | U |
| 100-41-4 | Ethylbenzene | 14.0 | 10.0 | |
| 108-38-3 | m&p Xylene | ND | 10.0 | U |
| 95-47-6 | o-Xylene | ND | 10.0 | U |
| 100-42-5 | Styrene | ND | 10.0 | U |
| 75-25-2 | Bromoform | ND | 10.0 | U |
| 98-82-8 | Cumene | ND | 10.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | U |
| 110-57-8 | trans-1,4-dichloro-2-butene | ND | 10.0 | U |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | U |
| 108-86-1 | Bromobenzene | ND | 10.0 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | U |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | U |
| 76-01-7 | Pentachloroethane | ND | 10.0 | U |
| 99-87-6 | p-isopropyltoluene | ND | 10.0 | U |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | U |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | U |
| 98-95-3 | Nitrobenzene | ND | 10.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | U |
| 91-20-3 | Napthalene | ND | 10.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 10.0 | U |



Volatile Organics Analysis Data

File Name: C:\TurboMass\TD1.PRO\Data\012716_005.raw
 Sample ID: VP01:201601:V Sample Vol (L): 0.250
 Lab Project: AGI51-6029 Matrix: Air
 Inject Date/Time: January 27, 2016 1:58:16 PM Tube S/N: G0152039
 Instrument: ATD/GC/MS Tune File: 11-05-15.IPR
 GC Method: TO_17B.mth MS Method: TO_17B.EXP
 Quantify Method: MM_9_325_IS Last Updated: January 26, 2016
 Calibration File: MM_9_325_IS Date Sampled: January 26, 2016
 Operator: JM Date Received: January 26, 2016
 Description: 15106-003 - 1810 Lincoln Hwy, N.
 Versailles Dilution Factor: 1.0

| CAS Number | Compound | Result (ug/m3) | Reporting Limit | Qualifier |
|------------|--------------------------|----------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | U |
| 74-87-3 | Chloromethane | ND | 10.0 | U |
| 75-01-4 | Vinyl Chloride | ND | 10.0 | U |
| 74-83-9 | Bromomethane | ND | 10.0 | U |
| 74-00-3 | Chloroethane | ND | 10.0 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | U |
| 60-29-7 | Diethyl ether | 317.3 | 10.0 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | U |
| 75-05-8 | Acetonitrile | ND | 10.0 | U |
| 75-15-0 | Carbon disulfide | ND | 10.0 | U |
| 107-05-1 | 3-Chloropropene | ND | 10.0 | U |
| 75-09-2 | Methylene Chloride | ND | 10.0 | U |
| 107-13-1 | Acrylonitrile | ND | 10.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 113.8 | 10.0 | |
| 75-34-3 | 1,1,-Dichloroethane | ND | 10.0 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 10.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 10.0 | U |
| 96-33-3 | Methyl acrylate | ND | 10.0 | U |
| 126-98-7 | Methacrylonitrile | ND | 10.0 | U |
| 109-99-9 | Tetrahydrofuran | ND | 10.0 | U |
| 67-66-3 | Chloroform | 1206.4 | 10.0 | E |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | U |
| 56-23-5 | Carbon Tetrachloride | 23.9 | 10.0 | |
| 71-43-2 | Benzene | ND | 10.0 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | U |
| 79-01-6 | Trichloroethene | ND | 10.0 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | U |
| 80-82-6 | Methyl methacrylate | ND | 10.0 | U |
| 123-91-1 | 1,4-Dioxane | ND | 10.0 | U |
| 74-95-3 | Dibromomethane | ND | 10.0 | U |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | U |
| 79-46-9 | 2-Nitropropane | ND | 10.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.5 | 10.0 | |
| 108-88-3 | Toluene | ND | 10.0 | U |
| 97-63-2 | Ethyl methacrylate | ND | 10.0 | U |



Volatile Organics Analysis Data

| CAS Number | Compound | Result (ug/m3) | Reporting Limit | Qualifier |
|------------|-----------------------------|----------------|-----------------|-----------|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | U |
| 127-18-4 | Tetrachloroethene | 13.7 | 10.0 | |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | U |
| 108-90-7 | Chlorobenzene | ND | 10.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | U |
| 100-41-4 | Ethylbenzene | ND | 10.0 | U |
| 108-38-3 | m&p Xylene | ND | 10.0 | U |
| 95-47-6 | o-Xylene | ND | 10.0 | U |
| 100-42-5 | Styrene | ND | 10.0 | U |
| 75-25-2 | Bromoform | ND | 10.0 | U |
| 98-82-8 | Cumene | ND | 10.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 10.0 | U |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | U |
| 108-86-1 | Bromobenzene | ND | 10.0 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | U |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | U |
| 76-01-7 | Pentachloroethane | ND | 10.0 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 10.0 | U |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | U |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | U |
| 98-95-3 | Nitrobenzene | ND | 10.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | U |
| 91-20-3 | Naphthalene | ND | 10.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 10.0 | U |

Vaportech Services, Inc

Laboratory Quality Control

Project: 15106-003 - North Versailles

Lab Project Number: 6029
Analytical Method: TO-17

Laboratory Control Sample

File Number: 012716_002
Analytical Date: 01/27/16

| Compound Name | LCS % Recovery | % Recovery Limit |
|--------------------------------|-------------------|---------------------|
| Dichlorodifluoromethane | 98 | 70-130 |
| Chloromethane | 105 | 70-130 |
| Vinyl Chloride | 87 | 70-130 |
| Bromomethane | 76 | 70-130 |
| Chloroethane | 82 | 70-130 |
| Trichlorofluoromethane | 101 | 70-130 |
| Diethyl ether | 81 | 70-130 |
| 1,1,2-Trichlorotrifluoroethane | 81 | 70-130 |
| 1,1-Dichloroethene | 75 | 70-130 |
| Acetonitrile | 88 | 70-130 |
| Carbon disulfide | 89 | 70-130 |
| 3-Chloropropene | 81 | 70-130 |
| Methylene Chloride | 85 | 70-130 |
| Acrylonitrile | 83 | 70-130 |
| trans-1,2-Dichloroethene | 97 | 70-130 |
| 1,2-Dichloroethane | 90 | 70-130 |
| 2-chloro-1,3-butadiene | 87 | 70-130 |
| cis-1,2-Dichloroethene | 85 | 70-130 |
| Methyl acrylate | 91 | 70-130 |
| Methylacrylonitrile | 89 | 70-130 |
| Tetrahydrofuran | 92 | 70-130 |
| Chloroform | 103 | 70-130 |
| 1,1,1-Trichloroethane | 97 | 70-130 |
| 1,1-Dichloropropene | 104 | 70-130 |
| Carbon Tetrachloride | 88 | 70-130 |
| Benzene | 91 | 70-130 |
| 1,2-Dichloroethane | 88 | 70-130 |
| Trichloroethene | 101 | 70-130 |
| 1,2-Dichloropropane | 86 | 70-130 |
| Methyl methacrylate | 106 | 70-130 |
| 1,4-Dioxane | 119 | 70-130 |
| Dibromomethane | 101 | 70-130 |
| Bromodichloromethane | 125 | 70-130 |
| 2-Nitropropane | 95 | 70-130 |
| cis-1,3-Dichloropropene | 83 | 70-130 |
| Toluene | 103 | 70-130 |
| Ethyl methacrylate | 118 | 70-130 |

| Compound Name | LCS % Recovery | % Recovery Limit |
|-----------------------------|-------------------|---------------------|
| trans-1,3-Dichloropropene | 101 | 70-130 |
| 1,1,2-Trichloroethane | 92 | 70-130 |
| 1,3-Dichloropropane | 99 | 70-130 |
| Tetrachloroethene | 93 | 70-130 |
| Dibromochloromethane | 108 | 70-130 |
| 1,2-Dibromoethane | 98 | 70-130 |
| Chlorobenzene | 98 | 70-130 |
| 1,1,1,2-Tetrachloroethane | 107 | 70-130 |
| Ethylbenzene | 96 | 70-130 |
| m&p Xylene | 198 | 70-130 |
| o-Xylene | 103 | 70-130 |
| Styrene | 105 | 70-130 |
| Bromoform | 103 | 70-130 |
| Cumene | 101 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 100 | 70-130 |
| trans-1,4-dichloro-2-butene | 117 | 70-130 |
| n-Propylbenzene | 101 | 70-130 |
| Bromobenzene | 103 | 70-130 |
| 2-Chlorotoluene | 100 | 70-130 |
| 1,3,5-Trimethylbenzene | 102 | 70-130 |
| 4-Chlorotoluene | 99 | 70-130 |
| tert-Butylbenzene | 105 | 70-130 |
| 1,2,4-Trimethylbenzene | 104 | 70-130 |
| 1,2,3-Trichloropropane | 117 | 70-130 |
| Pentachloroethane | 122 | 70-130 |
| p-Isopropyltoluene | 108 | 70-130 |
| sec-Butylbenzene | 102 | 70-130 |
| 1,3-Dichlorobenzene | 105 | 70-130 |
| 1,4-Dichlorobenzene | 121 | 70-130 |
| n-Butylbenzene | 102 | 70-130 |
| 1,2-Dichlorobenzene | 114 | 70-130 |
| 1,2-Dibromo-3-chloropropane | 103 | 70-130 |
| Nitrobenzene | 113 | 70-130 |
| 1,2,4-Trichlorobenzene | 106 | 70-130 |
| Hexachlorobutadiene | 113 | 70-130 |
| Napthalene | 105 | 70-130 |
| 1,2,3-Trichlorobenzene | 108 | 70-130 |

Vaportech Services, Inc

Laboratory Quality Control

Project: 15106-003 - North Versailles

Lab Project Number: 6029

Method Blank

File Number: 012716_003
Analytical Date: 01/27/16

| Compound Name | Result (ug/m3) | Reporting Limit (ug/m3) |
|--------------------------------|----------------|-------------------------|
| Dichlorodifluoromethane | ND | 10 |
| Chloromethane | ND | 10 |
| Vinyl Chloride | ND | 10 |
| Bromomethane | ND | 10 |
| Chloroethane | ND | 10 |
| Trichlorofluoromethane | ND | 10 |
| Diethyl ether | ND | 10 |
| 1,1,2-Trichlorotrifluoroethane | ND | 10 |
| 1,1-Dichloroethene | ND | 10 |
| Acetonitrile | ND | 10 |
| Carbon disulfide | ND | 10 |
| 3-Chloropropene | ND | 10 |
| Methylene Chloride | ND | 10 |
| Acrylonitrile | ND | 10 |
| trans-1,2-Dichloroethene | ND | 10 |
| 1,1-Dichloroethane | ND | 10 |
| 2-chloro-1,3-butadiene | ND | 10 |
| cis-1,2-Dichloroethene | ND | 10 |
| Methyl acrylate | ND | 10 |
| Methylacrylonitrile | ND | 10 |
| Tetrahydrofuran | ND | 10 |
| Chloroform | ND | 10 |
| 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloropropene | ND | 10 |
| Carbon Tetrachloride | ND | 10 |
| Benzene | ND | 10 |
| 1,2-Dichloroethane | ND | 10 |
| Trichloroethene | ND | 10 |
| 1,2-Dichloropropane | ND | 10 |
| Methyl methacrylate | ND | 10 |
| 1,4-Dioxane | ND | 10 |
| Dibromomethane | ND | 10 |
| Bromodichloromethane | ND | 10 |
| 2-Nitropropane | ND | 10 |
| cis-1,3-Dichloropropene | ND | 10 |
| Toluene | ND | 10 |
| Ethyl methacrylate | ND | 10 |

| Compound Name | Result (ug/m3) | Reporting Limit (ug/m3) |
|-----------------------------|----------------|-------------------------|
| trans-1,3-Dichloropropene | ND | 10 |
| 1,1,2-Trichloroethane | ND | 10 |
| 1,3-Dichloropropane | ND | 10 |
| Tetrachloroethene | ND | 10 |
| Dibromochloromethane | ND | 10 |
| 1,2-Dibromoethane | ND | 10 |
| Chlorobenzene | ND | 10 |
| 1,1,1,2-Tetrachloroethane | ND | 10 |
| Ethylbenzene | ND | 10 |
| m&p Xylene | ND | 10 |
| o-Xylene | ND | 10 |
| Styrene | ND | 10 |
| Bromoform | ND | 10 |
| Cumene | ND | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 10 |
| trans-1,4-dichloro-2-butene | ND | 10 |
| n-Propylbenzene | ND | 10 |
| Bromobenzene | ND | 10 |
| 2-Chlorotoluene | ND | 10 |
| 1,3,5-Trimethylbenzene | ND | 10 |
| 4-Chlorotoluene | ND | 10 |
| tert-Butylbenzene | ND | 10 |
| 1,2,4-Trimethylbenzene | ND | 10 |
| 1,2,3-Trichloropropane | ND | 10 |
| Pentachloroethane | ND | 10 |
| p-Isopropyltoluene | ND | 10 |
| sec-Butylbenzene | ND | 10 |
| 1,3-Dichlorobenzene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 |
| n-Butylbenzene | ND | 10 |
| 1,2-Dichlorobenzene | ND | 10 |
| 1,2-Dibromo-3-chloropropane | ND | 10 |
| Nitrobenzene | ND | 10 |
| 1,2,4-Trichlorobenzene | ND | 10 |
| Hexachlorobutadiene | ND | 10 |
| Napthalene | ND | 10 |
| 1,2,3-Trichlorobenzene | ND | 10 |

CHAIN-OF-CUSTODY RECORD

AGI 51-6029

Vaportech Servis — Inc.

1158 Pittsburgh Road, Suite 201
Valencia, PA 16059

Phone: (724) 898-2622 Fax: (724) 898-2633
www.vaportechservices.com

Company Name: American Geosciences
Address: 3925 Reed Blvd State: PA Zip: 15468
City: Marysville
Project Manager: DAVE PARSONAGE
Project Name: NORTH VERSAILLES
Project Number: 15106-003
Phone #: 724-733-7000 Fax #: _____

Sampler's signature: DOM

Purchase Order # 4512

Analysis Options: Enter letters in Requested Analysis columns below.

| | | | |
|--------------------------|-------------------------------|--------------------------|---------------------------|
| <input type="checkbox"/> | Light Hydrocarbons | <input type="checkbox"/> | Unleaded Gasoline List |
| <input type="checkbox"/> | ASTM D-1946 - Permanent Gases | <input type="checkbox"/> | TPH (Specify range below) |
| <input type="checkbox"/> | Methane | <input type="checkbox"/> | Chlorinated Hydrocarbons |
| <input type="checkbox"/> | Methane, Ethane, Ethylene | <input type="checkbox"/> | 624 Compound List |
| <input type="checkbox"/> | Hydrogen | <input type="checkbox"/> | TO-17 8260 List |
| <input type="checkbox"/> | BTEX | <input type="checkbox"/> | TO-17 Specified List |

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
 Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
 BTEX: Benzene, Toluene, Ethyl Benzene, m & p-Xylene, o-Xylene
 Unleaded Gasoline list: BTEX, MTBE, Cumene, Naphthalene
 TPH Ranges: C1-C4, C5-C10, C4-C12, C11-C18
 Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform, 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

| Collection Date | # of Containers | Sample Type | Sample Identification | Volume / Tube Serial # | Remarks | Lab Use |
|-----------------|-----------------|-------------|-----------------------|------------------------|--------------------------------|---------|
| 1-26-16 10:33 | 1 | AIR | VP02:201601:V | .25L / 1430 | | |
| 10:28 | 1 | | " " | .25L / 1453 | | |
| 10:34 | 1 | | " " | .05L / 1484 | | |
| 11:22 | 1 | | VP01:201601:V | .25L / 2039 | | |
| 11:27 | 1 | | " " | .25L / 2047 | | |
| 11:33 | 1 | | " " | .05L / 2075 | | |
| | | | | | SAMPLES COLLECTED BY VAPORTECH | |
| | | | | | DOM | |

Results to: _____ Email: _____

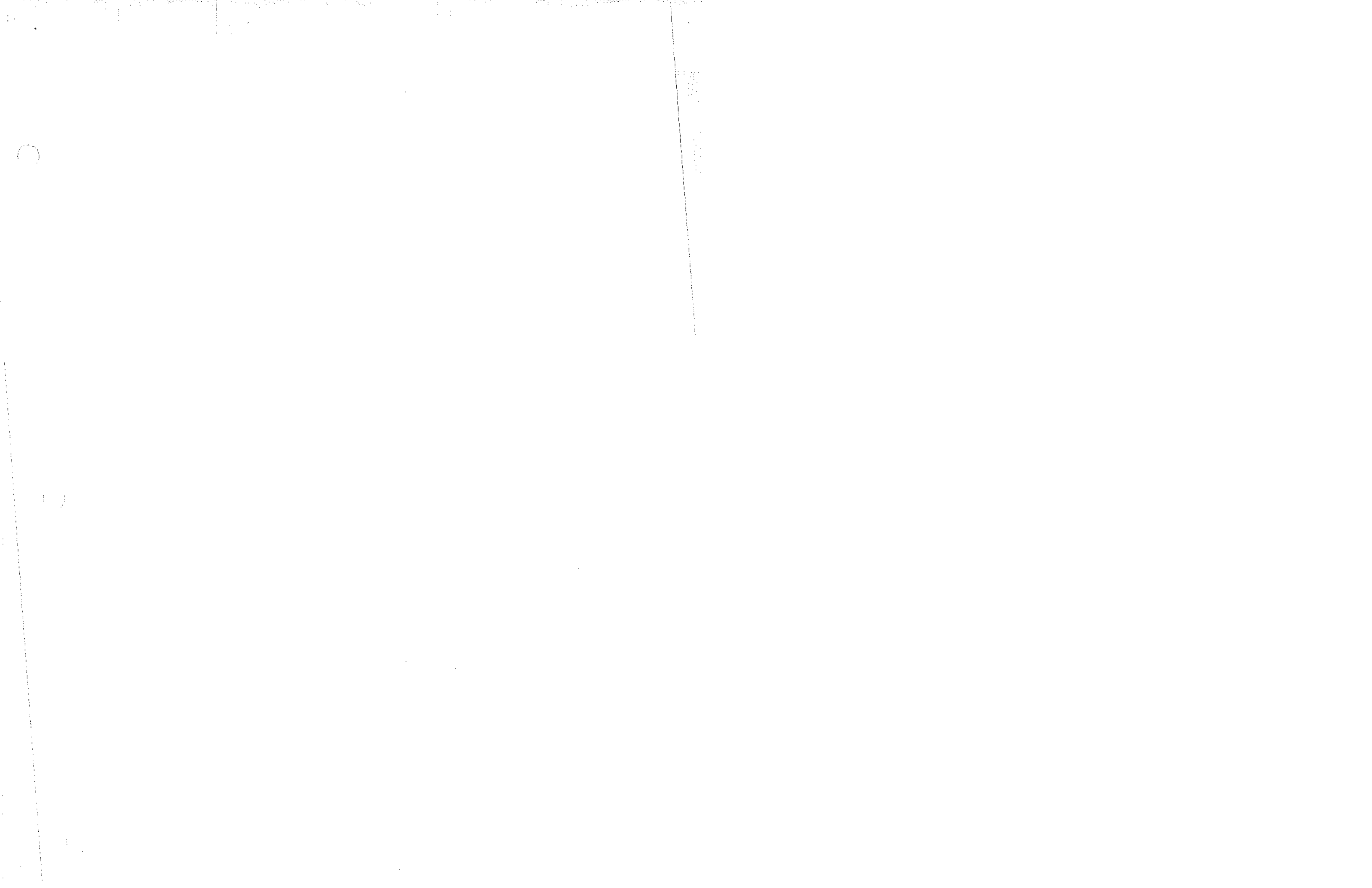
Invoice to: _____ Email: _____

| | | | |
|------------------|----------|-------|-------|
| Relinquished by: | Company: | Date: | Time: |
| Relinquished by: | Company: | Date: | Time: |
| Relinquished by: | Company: | Date: | Time: |

Received by: DOM Company: VAPORTECH Date: 1-26-16 Time: _____

WHITE COPY: Laboratory to return

YELLOW COPY: Submitter



APPENDIX C

APRIL 2016

SUMMARY OF INITIAL SITE CHARACTERIZATION RESULTS



3925 Reed Boulevard • Suite 400 • Murrysville, PA 15668-1848
(724) 733-7000 • (724) 733-1003 FAX • www.amergeo.com

April 21, 2016

VIA E-MAIL

RBE Norco -- JFH I, LLC
Realty Bancorp Equities, LLC
c/o Mr. Douglas Jacobsen
JH Capital Group
2100 Burbank Boulevard, Suite 330
Woodland Hills, California 91367

Re: Summary of Initial Site Characterization Results
Lincoln Highway Property
1810 Lincoln Highway
North Versailles, Pennsylvania
AGI Project No. 15106-004

Dear Mr. Jacobsen:

This letter provides you with a summary of the sampling activities and results from the iterative investigations performed by American Geosciences, Inc., (AGI) at the Lincoln Highway Property (site). The objective of these activities was to assess potential impacts to groundwater at the site associated with historical usage of the property.

Project Background

The property is located at 1810 Lincoln Highway in North Versailles, Allegheny County, Pennsylvania. The property is comprised of two parcels (Allegheny County tax parcels 750-J-253 [~0.12 acres] and 750-J-263 [~4.06 acres]) totaling approximately 4.18 acres improved with one partial 2-story, approximately 50,000 square foot building.

In January 2016, AGI completed a Phase II ESA to evaluate potential soil, groundwater, and sub-slab soil vapor impacts based upon the findings of the Phase I ESA. The results of the Phase II ESA identified chlorinated solvents, petroleum products, and heavy metals in the subsurface related to the former industrial use of the property. Soil and sub-slab vapor samples did not identify concentrations of tested constituents above Act 2 statewide health standard (SHS) medium specific concentrations (MSCs) or volatilization to indoor air values.

The results identified concentrations of the following constituents in groundwater above Act 2 SHS MSCs: Dissolved cadmium was detected at a concentration of 12.3 micrograms per liter ($\mu\text{g/l}$) in the sample collected from GP-05. This concentration exceeds the nonresidential used aquifer MSC of 5.0 $\mu\text{g/l}$.

- The chlorinated solvent 1,1-Dichloroethene (1,1-DCE) was detected at a concentration of 17.8 µg/l in the sample collected from GP-05. This concentration exceeds the nonresidential used aquifer MSC of 7.0 µg/l.

The results of the Phase II ESA identified one sample location (GP-05) with concentrations of a chlorinated solvent constituent (1,1-DCE) and a dissolved metal (cadmium) that exceed their respective standards in groundwater. The soil sample results from the GP-05 boring also contained chlorinated solvent constituents at concentrations below their respective standards. This location is suspected to be in the vicinity of the former steam cleaning area. No other soil samples from across the site had detectable concentrations of chlorinated solvent constituents, and none of the tested constituents in any of the soil samples exceeded their respective standards for non-residential direct contact or for the soil-to-groundwater pathway. VOCs including chlorinated solvent constituents and petroleum product constituents were identified in the sub-slab vapor samples at concentrations below levels of concern based upon current and proposed screening values.

Investigation Activities and Results

The following sections briefly summarize the iterative investigation activities that have been completed at the site and the investigation results.

Initial Site Characterization Activities

Based on the Phase II ESA findings, iterative site characterization activities were performed by AGI at the site during two mobilizations in March and April 2016. The objectives of these activities were to help evaluate potential impacts to soil or groundwater beneath the site then help define the potential for impacts to indoor air at the site.

Evaluation of Impacts to Soil

Soil samples were collected from four bedrock monitoring wells installed at the site. The locations of the monitoring wells are shown on Figure 1 (Phase II & ISC Sample Locations) MW-01 through MW-04. All four wells were installed during the March 2016 mobilization. The monitoring wells were advanced using hollow-stem auger sampling techniques until bedrock refusal, which ranged from 8 feet below ground surface (bgs) at MW-03 to 14 feet bgs at MW-01 and MW-02. Once bedrock refusal was reached, air rotary techniques were used to advance the wells until the first indication of groundwater, which ranged from 12.5 feet bgs at MW-03 to 40 feet bgs at MW-02.

Soil samples were collected continuously from the ground surface until bedrock refusal at each location. A photoionization detector (PID) was used to field-screen soil samples to evaluate potential impact by volatile organic compounds (VOCs) to select soil samples for laboratory analysis. The soil samples were then analyzed by TestAmerica (TA) for Resource Conservation and Recovery Act (RCRA) metals and Target Compound List (TCL) VOCs.

Evaluation of Impact to Groundwater

Two rounds of groundwater samples were collected from the four bedrock monitoring wells. The locations of monitoring wells are shown on Figure 1 as MW-01 through MW-04. Following groundwater equilibration, the monitoring wells were developed prior to collecting groundwater samples using surge and bail methods to remove fine-grained formation material from the well screens and filter packs.

Water levels were measured and groundwater samples were collected from all four monitoring wells in March 2016 and April 2016.

The groundwater samples were collected with a peristaltic pump and dedicated tubing using low-flow sampling procedures, except for MW-02 which was sampled using a dedicated bailer due to the wells depth. The samples were submitted to TA for analysis of dissolved RCRA metals, TCL VOCs, and total dissolved solids (April 2016 samples only).

Evaluation of Impact to Sub-Slab and Indoor Air

Sub-slab soil gas samples were collected from five sub-slab soil vapor monitoring points. The locations of the vapor points are shown on Figure 1 as VP-01 through VP-05. Two of the vapor points were installed during the Phase II ESA in January 2016 (VP-01 and VP-02) and three were installed during the March 2016 mobilization (VP-03 through VP-05).

The vapor points were installed to facilitate collecting air sample directly beneath the floors of the site buildings to evaluate the potential for VOCs to impact indoor air. The vapor points consisted of Vapor Pins™ manufactured by Cox-Colvin & Associates, Inc. The Vapor Pins were installed and integrity tested following the manufacturer's instructions.

The sub-slab vapor samples were collected into certified clean sample tubes provided by the laboratory. The tubes were attached to a syringe to collect air samples at a rate of approximately 100 milliliters per minute. Sub-slab vapor samples were collected in March 2016 and submitted to Vaportech Services, Inc., a Pennsylvania-registered environmental laboratory, under chain-of-custody (COC) procedures. The samples were analyzed for VOCs by Method TO-17.

Analytical Results

Soil Sample Analytical Results

The soil sample analytical results were compared to the current Land Recycling and Environmental Remediation Standards Act (Act 2) Statewide Health Standard (SHS), nonresidential medium specific concentrations (MSCs) and nonresidential volatilization to indoor air screening (VIAS) values and are summarized on Table 1 (Soil Sample Analytical Results Summary). Only those constituents detected above laboratory reporting limits are shown on Table 1.

The following information summarizes the analytical results of the soil samples:

- Various metals were detected in samples collected from all four monitoring well borings. However, all concentrations were below their respective nonresidential MSCs and VIASVs.
- The VOC 1,1,1-Trichloroethane was detected in the soil sample collected from the MW-01 boring. However, the concentration was below its respective nonresidential MSCs and VIASVs.

Groundwater Sample Analytical Results

The groundwater sample analytical results were compared to the current Act 2 SHS, nonresidential used aquifer MSCs and nonresidential groundwater VIAS values and are summarized on Table 2 (Groundwater Sample Analytical Results Summary). Only those constituents detected above laboratory reporting limits are shown on Table 2.

The following information summarizes the analytical results of the groundwater sample:

- Cadmium was detected at a concentration of 13 µg/l and 15 µg/l in the samples collected from MW-03 in March 2016 and April 2016, respectively. This concentration exceeds the nonresidential used aquifer MSC of 5.0 µg/l.
- The chlorinated solvent 1,1-Dichloroethene (1,1-DCE) was detected at a concentration of 6.9 µg/l and 7.6 µg/l in the sample collected from MW-03 in March 2016 and April 2016, respectively. The concentration from the April 2016 sample exceeds the nonresidential used aquifer MSC of 7.0 µg/l.
- Total dissolved solids were detected at a concentration ranging from 1,900 mg/l at MW-04 to 3,500 mg/l in samples collected from MW-02 and MW-03 in April 2016. The concentrations detected at MW-02 and MW-03 exceeded the nonresidential used aquifer MSC standard of <=2,500 mg/l.
- Various other dissolved metals and VOCs were detected in the samples collected from MW-01 through MW-04 in March 2016 and April 2016. However, all concentrations were below their respective MSCs and VIAS values.

Sub-slab Vapor Analytical Results

The sub-slab soil vapor sample analytical results were compared to Act 2 SHS nonresidential Sub-Slab Soil Gas screening values (VIASV). Several VOC constituents were detected in the vapor samples from VP-01, VP-02, VP-04, and VP-05. However, none of the concentrations exceeded their respective nonresidential Sub-Slab soil gas screening values. Table 3 (Table 3 – Sub-Slab Vapor Sample Analytical Results Summary) summarizes the results.

Conclusions and Recommendations

The results of the ISC activities identified dissolved cadmium and chlorinated solvent impact in groundwater on the downgradient side of the building at the site (MW-03). The source of the impact is most likely due to the historical cleaning, degreasing, pressuring washing, etc., that have taken place at the site. Cadmium and the chlorinated solvent 1,1-DCE were identified at concentrations above their respective nonresidential used aquifer MSCs in monitoring well MW-03.

Based on topography and recorded water levels, groundwater presumably flows to the southwest toward Jack's Run and an intermittent stream, which are located adjacent to the south and west of the site, respectively. These conditions are considered likely to isolate the aquifer at the site, minimizing the migration of constituents in groundwater. However, the groundwater likely discharges at several seeps along Jack's Run which may pose ecological or human health concerns.

Chlorinated solvents were also detected in sub-slab vapor samples collected from VP-01, VP-02, VP-04, and VP-05. However, all concentrations were below VIAS screening values. Therefore, there was no evidence of impacted sub-slab vapor at the site.

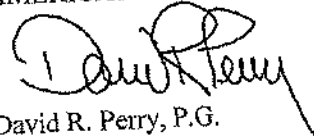
Various metals and the VOC 1,1,1-Trichloroethane were detected in soil samples collected from all four monitoring well borings. However, all reported concentrations were below their respective nonresidential MSCs and VIASVs. Therefore, there was no evidence of impacted soil at the site.

Although relatively low, concentrations of various constituents were reported present above their applicable Act 2 standard. Therefore, these impacts should be addressed under the Act 2 program.

If you have any questions on this proposed ISC, please contact me at (724) 733-7000.

Respectfully submitted,

AMERICAN GEOSCIENCES, INC.



David R. Perry, P.G.
Senior Project Director

drp/bmh





Enclosures: Figure 1 – Phase II & ISC Sample Locations
Table 1 – Soil Sample Analytical Results
Table 2 – Groundwater Sample Analytical Results
Table 3 – Sub-Slab Vapor Sample Analytical Results Summary

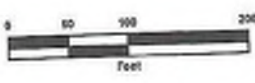
FIGURE

FIGURE 1
PHASE II & ISC SAMPLE LOCATIONS
INITIAL SITE CHARACTERIZATION
LINCOLN HIGHWAY PROPERTY
1810 LINCOLN HIGHWAY
NORTH VERSAILLES, ALLEGHENY COUNTY
PENNSYLVANIA

PREPARED FOR
REALTY BANCORP EQUITIES, LLC
WOODLAND HILLS, CALIFORNIA

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
- SAMPLE STATIONS**
-  PHASE II ESA SOIL BORING
-  MONITORING WELL
-  VAPOR POINT



COMMENTS & NOTES:

SOURCE: ESRI, DIGITALGLOBE, GEBCO, EARTHSTAR GEOGRAPHICS, CHESTERFIELD CO, USDA, USGS, AEC, GETSWORTHY, AEROSPACE, IGN, IGP, SWASTCO, AND THE GIS USER COMMUNITY

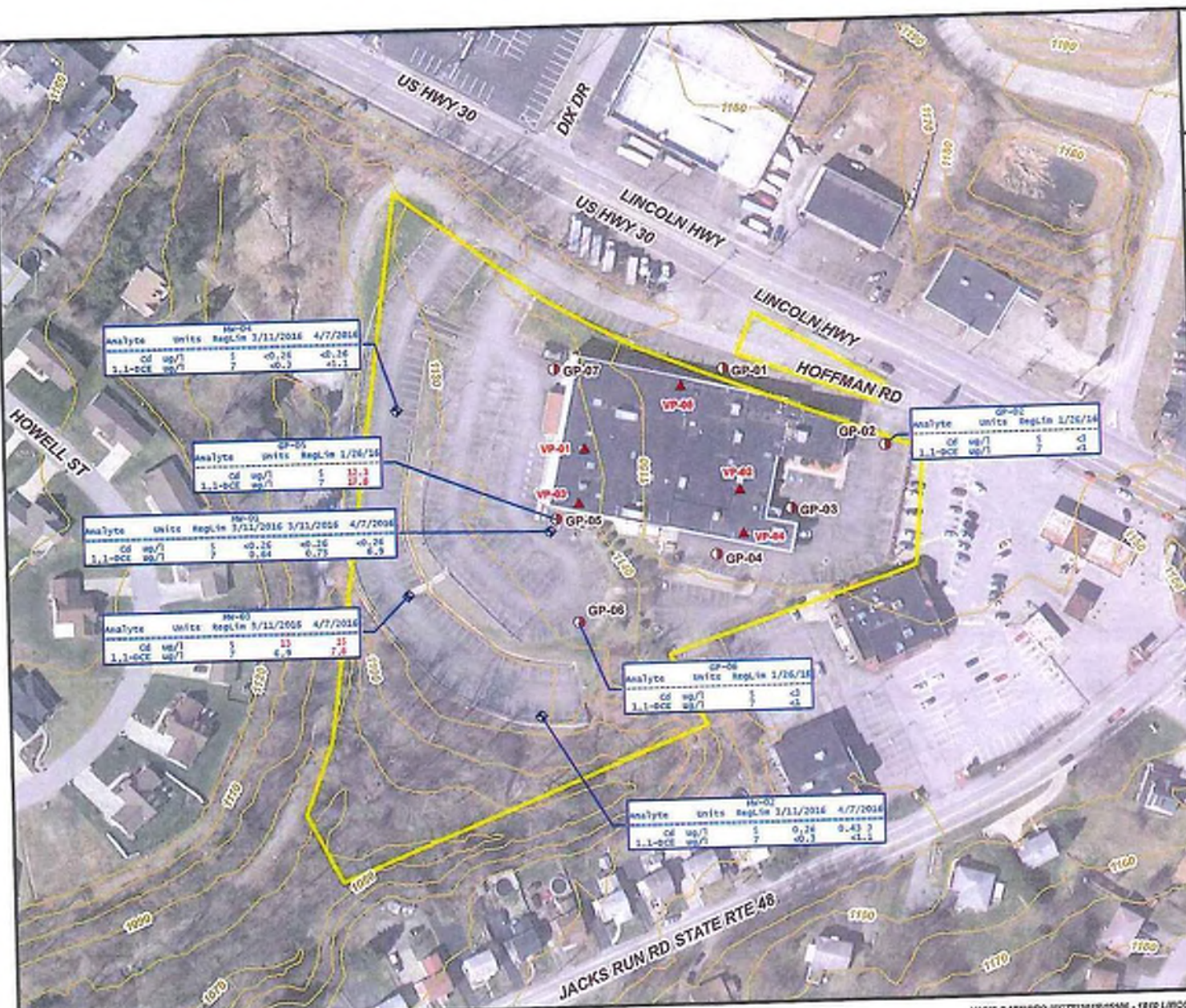
SITE BOUNDARIES: "ALLEGHENY COUNTY PARCELS", ALLEGHENY COUNTY DIVISION OF COMPUTER SERVICES GEOGRAPHIC INFORMATION SYSTEMS (CADSR), 2012.

STREET NAMES: "TODDLINE SHAPERS", 2014, ALLEGHENY COUNTY, PA, ALL 18100; U.S. DEPARTMENT OF COMMERCE, U.S. CENSUS BUREAU, ORTOGRAPHY DIVISION, 2012.

PORTIONS OF THIS FIGURE ARE PRESENTED IN COLOR. THEREFORE BLACK AND WHITE COPIES MAY NOT DEPICT ALL INFORMATION AS PRESENTED ON THE ORIGINAL DOCUMENT.



2025 REED BOULEVARD, SUITE 400
 HARRYSVILLE, PA 15668
 724-733-7000
 www.energeo.com



TABLES

Table 1
Soil Sample Analytical Results Summary
1510 Lincoln Highway
North Versailles, Pennsylvania

| Constituent ^(b) | Reporting Units | Act 2 ^(a) Statewide Health Standard MSC ^(c) and VIAS ^(e) | | Sample station, date sampled, field sample ID, and depth sampled in feet below ground surface | | |
|----------------------------|-----------------|---|---|---|-------------------------------------|-------|
| | | Nonacidical | | MV-01 | MV-02 | |
| | | Direct Contact (0-2 ft) MSCs | Soil to Groundwater ^(d) MSCs | MV-01-10-125 3/7/2016 10 - 12 ft | MV-02-10-S 3/7/2016 8 - 10 ft | |
| Arsenic | mg/kg | 190000 | 29 | 25 | 22 | 2.3 |
| Barium | mg/kg | 190000 | 8700 | 26 | 32 | 420 |
| Cadmium | mg/kg | 1480 | 38 | 37 | 1.1 | 1.2 |
| Chromium | mg/kg | 190000 | 190000 | 26 | 18 | 33 |
| Lead | mg/kg | 1000 | 450 | 59 | 17 | 8.5 |
| Mercury | mg/kg | 456 | 16 | 0.032 | 0.038 | 0.019 |
| Selenium | mg/kg | 14000 | 24 | 1.1 | 0.73 | 0.82 |
| Volatile Organic Compounds | | | | | | |
| 1,1,1-Trichloroethane | mg/kg | 10000 | 20 | 0.00663 | 14.0 | 13.6 |

^(b) Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of constituents analyzed.
^(c) Land Recycling and Environmental Remediation Standards Act.
^(d) Medium-specific concentration.
^(e) Validation to Indoor Air Screening Value. Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapors Ingress into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard.
^(f) Total dissolved solids less than or equal to 2,500 milligrams per liter
 mg/kg - milligrams per kilogram
 N/A - Not applicable.

Table 2
Groundwater Sample Analytical Results Summary
Lincoln Avenue Property
1310 Lincoln Avenue
North Versailles Township, Allegheny County
Pennsylvania

| Contaminant ^(b) | Reporting Units | Act 2 ^(c) Statewide Health Standard MSC ^(d) and VAS Values ^(e) Nonresidential Groundwater VAS Values | Sample station, field sample ID, and date sampled | | | | | | | | | | | | | |
|----------------------------|-----------------|---|---|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|-------------------|-------|-------|
| | | | FD-01-201603-W 3/11/2016 | MV-01-201603-W 3/11/2016 | MV-01-201603-W 4/7/2016 | MV-01-201603-W 3/11/2016 | MV-02-201603-W 3/11/2016 | MV-02-201603-W 4/7/2016 | MV-02-201603-W 3/11/2016 | MV-02-201603-W 4/7/2016 | MV-03-201604-W 3/11/2016 | MV-03-201604-W 4/7/2016 | MV-03-201604-W 3/11/2016 | MV-04 4/7/2016 | | |
| Metals | ug/l | NA | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 |
| Arsenic | ug/l | 10 | 1.30 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| Barium | ug/l | 2000 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |
| Cadmium | ug/l | 5 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 |
| Chromium | ug/l | 100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Selenium | ug/l | 50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Volatile Organic Compounds | ug/l | 200 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 1,1,1-Trichloroethane | ug/l | 26000 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| 1,1-Dichloroethane | ug/l | 160 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| 1,3-Dichlorobenzene | ug/l | 7 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| 1,3-Dichlorobenzene | ug/l | 600 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Acetone | ug/l | 92000 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| Benzene | ug/l | 5 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Chloroform | ug/l | 80 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 |
| Methyl Acetate | ug/l | 100000 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Toluene | ug/l | 1000 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 |
| Trichloroethene | ug/l | 5 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 |

^(a) Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of constituents analyzed or Land Recycling and Environmental Remediation Standards Act.

^(b) Method-specific concentrations are calculated to Indoor Air Screening Value. Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapor Intrusion

^(c) Reporting Units

^(d) ug/l - micrograms per liter

^(e) Concentrations depicted in **BOLD** exceed the nonresidential use/ aquifer MISC.

NA - Not applicable.

NE - Non-established.

NOC - Not of concern.

J - Estimated value. Concentration is between the method detection limit and the method reporting limit.

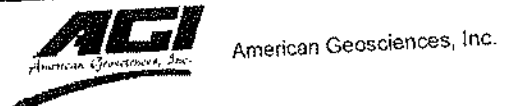
Table 3
 Sub-Slab Vapor Sample Analytical Results Summary
 1810 Lucala Highway Property
 North Versailles, Pennsylvania

| Constituent ¹⁾ | Units | Sub-Slab Soil Gas Screening Values (VIA SV) | | Sample analysis, sample ID, date collected, and concentration detected | | | | |
|---------------------------|-------------------|---|-----------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | Proposed ²⁾ | Current ³⁾ | VP-01 VP-01E201603.V 3/14/2016 | VP-02 VP-02E201603.V 3/14/2016 | VP-03 VP-03E201603.V 3/14/2016 | VP-04 VP-04E201603.V 3/14/2016 | VP-05 VP-05E201603.V 3/14/2016 |
| 1,1,1-Trichloroethane | ug/m ³ | 2800000 | 610000 | 344.9 | 167.9 | <20 | 26.4 | <20 |
| 1,1,2-Dichloroethane | ug/m ³ | 9800 | 5700 | 53.1 | <20 | <20 | <20 | <20 |
| 1,1-Dichloroethene | ug/m ³ | 116000 | 58000 | 275.5 | 18.6 | <20 | 20.7 | 30.3 |
| 1,1-Dichloroethane | ug/m ³ | 34000 | 17000 | <20 | 15.2 | <20 | 22.5 | <20 |
| Acetylene | ug/m ³ | 2800 | 1400 | <20 | <20 | <20 | <20 | 24.9 |
| Bromochloroethene | ug/m ³ | 39000 | 20000 | <20 | <20 | <20 | <20 | 33.2 |
| Carbon Dioxide | ug/m ³ | 00 | 0 | <20 | <20 | <20 | <20 | <20 |
| Chloroform | ug/m ³ | 00 | 0 | 18 | <20 | <20 | <20 | 34.1 |
| Tetrachloroethene | ug/m ³ | 200000 | 120000 | <20 | <20 | <20 | <20 | <20 |
| Toluene | ug/m ³ | 200000 | 4800 | <20 | 40.9 | <20 | <20 | <20 |
| Trichloroethene | ug/m ³ | 1100 | 4800 | <20 | <20 | <20 | <20 | <20 |
| Vinyl Chloride | ug/m ³ | 1700 | 900 | 16 | <20 | <20 | <20 | <20 |

¹⁾ Only constituents detected in at least one sample are shown on this table. Refer to laboratory report for complete list of analyzed constituents.
²⁾ Table 3. Non-Source Soil Gas Saturated Vapor Pressure Screening Values (SV_{sp}), Land Recycling Program Technical Guidance Manual for Vapor Emission into Buildings from Groundwater and Soil under Part 2. (Draft July 25, 2015).
³⁾ The current vapor intrusion screening values for soil gas have been calculated by dividing the indoor air criteria by the transfer factor of 0.01.

WELL NUMBER MW-01

PAGE 1 OF 1



CLIENT RBE Norco - JFH I, LLC
PROJECT NUMBER 15106
DATE STARTED 3/7/16 **COMPLETED** 3/9/16
DRILLING CONTRACTOR Terra Testing, Inc.
DRILLING METHOD Air Rotary
LOGGED BY B. Rupp **CHECKED BY** _____
PROJECT NAME 1810 Lincoln Highway Property
PROJECT LOCATION 1810 Lincoln Highway
GROUND ELEVATION _____ **HOLE SIZE** 4
GROUND WATER LEVELS:
 AT TIME OF DRILLING _____
 AT END OF DRILLING _____
 AFTER DRILLING 19.02 ft

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data | WELL DIAGRAM |
|------------|--------------------|------------|-----------------------|--------------------------|----------------------|--|--------------------|--|
| 0 | | | | | | FILL; Gravel, Ciner, and silt | PID = 0.5 | <p>Flush Mount</p> <p>Bentonite</p> <p>2" PVC Riser</p> <p>Sand</p> <p>2" PVC Screen</p> |
| 1 | SS 1 | 13 | 26-6-4 (10) | | | FILL; Gray Clayey Silt; Rock Fragments | PID = 0.5 | |
| 2 | SS 2 | 25 | 3-7-8 (15) | | | No Recovery | | |
| 3 | SS 3 | 0 | 6-4-4-10 (8) | | | (ML) Brown SILT; Some Clay and Sand; Weathered Rock Fragments | PID = 0.4 | |
| 4 | SS 4 | 50 | 7-12-8-21 (20) | | ML | (SM) Brown Silty SAND; Weathered Rock Fragments | PID = 0.3 | |
| 5 | SS 5 | 100 | 4-10-12-13 (22) | | SM | (SP) Brown Very Fine to Fine Grained SAND; Some Silt; Weathered Sandstone; Split Spoon Refusal | PID = 0.2 | |
| 6 | SS 6 | 88 | 18-45-45-50 (90) | *Collected MW-01:10-12:S | SP | SANDSTONE | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |
| | | | | | | | | |

Bottom of borehole at 31.0 feet.

ALL - GINT STD US:SDT - 8/18/16 12:51 - Y:\GINT\PROJECTS\15106 GP.J
 GENERAL BHT



CLIENT RBE Norco - JFH I, LLC
 PROJECT NUMBER 15106
 DATE STARTED 3/7/16 COMPLETED 3/7/16
 DRILLING CONTRACTOR Terra Testing, Inc.
 DRILLING METHOD Air Rotary
 LOGGED BY B. Rupp CHECKED BY _____

PROJECT NAME 1810 Lincoln Highway Property
 PROJECT LOCATION 1810 Lincoln Highway
 GROUND ELEVATION _____ HOLE SIZE 4
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING 20.90 ft

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data | WELL DIAGRAM |
|------------|--------------------|------------|-----------------------|-------------------------|----------------------|---|--------------------|---------------------------|
| 0 | | | | | | FILL; Sand, Silt, and Gravel | PID = 0.9 | Flush Mount |
| | SS 1 | 13 | 9-5-5 (10) | | | No Recovery | | |
| | SS 2 | 0 | 2-2-3-4 (5) | | | | | |
| 5 | SS 3 | 50 | 8-8-7-10 (15) | | ML | (ML) Brown-Gray Clayey SILT; Some Sand; Rock and Wood Fragments | PID = 0.9 | |
| | SS 4 | 50 | 13-12-13-21 (25) | | | | PID = 0.8 | |
| | SS 5 | 38 | 7-5-13-16 (18) | *Collected MW-02:8-10:S | ML | (ML) Gray Clayey SILT; Some Sand; Rock Fragments | PID = 0.9 | |
| 10 | SS 6 | 0 | 11-7-9-9 (16) | | | No Recovery | | |
| | SS 7 | 13 | 30-50/2" | | | Weathered SANDSTONE; Split Spoon Refusal at 12.5' SANDSTONE | | Bentonite 2" PVC Riser |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |
| 35 | | | | | | | | Sand 2" PVC Screen |
| 40 | | | | | | | | |

Bottom of borehole at 40.0 feet.

.ELL - GINT STD US.GDT - 5/16/15 12:51 - Y:\GINT\PROJECTS\15106.GPJ
 GENERAL BH / 1



CLIENT RBE Norco - JFH I, LLC

PROJECT NAME 1810 Lincoln Highway Property

PROJECT NUMBER 15106

PROJECT LOCATION 1810 Lincoln Highway

DATE STARTED 3/7/16 COMPLETED 3/8/16

GROUND ELEVATION _____ HOLE SIZE 4

DRILLING CONTRACTOR Terra Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Air Rotary

AT TIME OF DRILLING ---

LOGGED BY B. Rupp CHECKED BY _____

AT END OF DRILLING ---

✓ AFTER DRILLING 8.17 ft

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data | WELL DIAGRAM |
|------------|--------------------|------------|-----------------------|------------------------|----------------------|---|--------------------|---------------|
| 0.0 | | | | | | (SM) Brown Silty SAND; Some Clay; Rock Fragments | | Flush Mount |
| 1.0 | SS 1 | 38 | 5-5-8 (13) | | SM | | PID = 0.4 | |
| 2.5 | SS 2 | 69 | 11-30-50/1" | *Collected MW-03:2-4:S | SP | (SP) Brown Very Fine to Fine Grained SAND; Some Silt; Rock Fragments; Damp; Split Spoon Refusal at 3' | PID = 0.6 | Bentonite |
| 3.0 | | | | | | SANDSTONE | | 2" PVC Riser |
| 5.0 | | | | | | | | |
| 7.5 | | | | | | | | |
| 10.0 | | | | | | | | Sand |
| 12.5 | | | | | | | | 2" PVC Screen |

Bottom of borehole at 12.5 feet

ELL - GINT STD U.S. GDT - 5/16/16 12.51 - Y:\GINT\PROJECTS\15106.GPJ
 GENERAL BH / /



CLIENT RBE Norco - JFH I, LLC
 PROJECT NUMBER 15106
 DATE STARTED 3/7/16 COMPLETED 3/8/16
 DRILLING CONTRACTOR Terra Testing, Inc.
 DRILLING METHOD Air Rotary
 LOGGED BY B. Rupp CHECKED BY

PROJECT NAME 1810 Lincoln Highway Property
 PROJECT LOCATION 1810 Lincoln Highway
 GROUND ELEVATION HOLE SIZE 4
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING 12.97 ft

NOTES

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. GRAPHIC LOG | MATERIAL DESCRIPTION | Environmental Data | WELL DIAGRAM |
|------------|--------------------|------------|-----------------------|-------------------------|----------------------|--|--------------------|---------------|
| 0 | | | | | | (ML) Brown Clayey SILT; Trace Sand; Rock Fragments | PID = 0.3 | Flush Mount |
| 1 | SS 1 | 38 | 8-9-12 (21) | | ML | | | |
| 2 | | | | | | 2.0 | | |
| 3 | SS 2 | 25 | 19-40-41-50 (81) | | SP | (SP) Brown Fine to Medium Grained SAND; Sandstone Fragments; Split Spoon Refusal | PID = 0.4 | |
| 4 | | | | | | 4.0 | | |
| 5 | | | | | | No Recovery; Auger to 6' | | |
| 6 | | | | | | 6.0 | | Bentonite |
| 7 | SS 3 | 50 | 5-10-7-12 (17) | | SP | (SP) Brown Fine to Medium Grained SAND; Sandstone Fragments | PID = 0.2 | 2" PVC Riser |
| 8 | | | | | | 8.0 | | |
| 9 | SS 4 | 63 | 8-8-7-7 (15) | *Collected MW-04:8-10:S | SP | (SP) Dark Brown Very Fine to Fine Grained SAND; Trace Silt and Clay; Sandstone Fragments | PID = 0.3 | |
| 10 | SS 5 | 0 | 50/3" | | | 10.0 | | |
| 10.25 | | | | | | 10.25 | | |
| 10.3 | | | | | | No Recovery; Split Spoon Refusal at 10.25' SANDSTONE | | |
| 10.3 | | | | | | | | |
| 15 | | | | | | | | Sand |
| 20 | | | | | | | | 2" PVC Screen |
| 25 | | | | | | | | |

Bottom of borehole at 25.5 feet

ELL - GINT STD US.GDT - 5/19/16 12:52 - Y:\GINT\PROJECTS\15106.GPJ
 GENERAL BH 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-52761-1
Client Project/Site: 1810 Lincoln Highway

For:
American Geosciences, Inc.
3925 Reed Boulevard
Suite 400
Murrysville, Pennsylvania 15668-1848

Attn: Bryce Rupp



Authorized for release by:
3/22/2016 3:49:05 PM

Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

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

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Case Narrative

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Job ID: 180-52761-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-52761-1

Receipt

The samples were received on 3/8/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

The continuing calibration verification (CCV) analyzed in batch 160-170197 was outside the method criteria for the following analytes: 4-Methyl-2-pentanone, Carbon disulfide, Chloromethane, Dichloro-difluoromethane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Metals

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

General Chemistry

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

Definitions/Glossary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Qualifiers

GC/MS VOA

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

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| D | 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| | Minimum Level (Dioxin) |
| | 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 |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Certification Summary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Laboratory: TestAmerica Pittsburgh

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------|---------|------------|------------------|-----------------|
| Pennsylvania | NELAP | 3 | 02-00416 | 04-30-16 |

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------|
|-----------------|-------------|--------|---------|

TestAmerica Pittsburgh

3/22/2016

Sample Summary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

| Sample ID | Client Sample ID | Matrix | Collected | Received |
|-------------|------------------|--------|----------------|----------------|
| 180-52761-1 | MW-01:10-12:S | Solid | 03/07/16 11:30 | 03/08/16 09:30 |
| 180-52761-2 | MW-02:8-10:S | Solid | 03/07/16 15:20 | 03/08/16 09:30 |
| 180-52761-3 | MW-03:2-4:S | Solid | 03/07/16 14:00 | 03/08/16 09:30 |
| 180-52761-4 | MW-04:8-10:S | Solid | 03/07/16 13:10 | 03/08/16 09:30 |

Method Summary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 6010C | Metals (ICP) | SW846 | TAL PIT |
| 7471B | Mercury (CVAA) | SW846 | TAL PIT |
| 2540G | SM 2540G | SM22 | TAL PIT |

Protocol References:

SM22 = SM22
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-01:10-12:S

Lab Sample ID: 180-52761-1

Date Collected: 03/07/16 11:30
Date Received: 03/08/16 09:30

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2540G | | 1 | | | 170398 | 03/09/16 15:46 | MTW | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MW-01:10-12:S

Lab Sample ID: 180-52761-1

Date Collected: 03/07/16 11:30
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 89.3

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | 1 | 6.9800 g | 5 mL | 170168 | 03/08/16 14:50 | PJJ | TAL PIT |
| Total/NA | Analysis | 8260C | | | | | 170197 | 03/08/16 16:46 | PJJ | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 1 | 1.03 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.03 g | 100 mL | 170609 | 03/11/16 11:20 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 7471B | | 1 | 0.62 g | 100 mL | 170283 | 03/09/16 06:47 | EVR | TAL PIT |
| Total/NA | Analysis | 7471B | | | 0.62 g | 100 mL | 170361 | 03/09/16 11:44 | EVR | TAL PIT |
| Instrument ID: K | | | | | | | | | | |

Client Sample ID: MW-02:8-10:S

Lab Sample ID: 180-52761-2

Date Collected: 03/07/16 15:20
Date Received: 03/08/16 09:30

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2540G | | 1 | | | 170398 | 03/09/16 15:46 | MTW | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MW-02:8-10:S

Lab Sample ID: 180-52761-2

Date Collected: 03/07/16 15:20
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 84.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | 1 | 7.4023 g | 5 mL | 170168 | 03/08/16 14:50 | PJJ | TAL PIT |
| Total/NA | Analysis | 8260C | | | 7.4023 g | 5 mL | 170197 | 03/08/16 17:09 | PJJ | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 1 | 1.08 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.08 g | 100 mL | 170609 | 03/11/16 11:25 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 7471B | | 1 | 0.64 g | 100 mL | 170283 | 03/09/16 06:47 | EVR | TAL PIT |
| Total/NA | Analysis | 7471B | | | 0.64 g | 100 mL | 170361 | 03/09/16 11:46 | EVR | TAL PIT |
| Instrument ID: K | | | | | | | | | | |

TestAmerica Pittsburgh

Lab Chronicle

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Lab Sample ID: 180-52761-3
Matrix: Solid

Client Sample ID: MW-03:2-4:S
Date Collected: 03/07/16 14:00
Date Received: 03/08/16 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2540G | | 1 | | | 170398 | 03/09/16 15:46 | MTW | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Sample ID: 180-52761-3
Matrix: Solid
Percent Solids: 87.0

Client Sample ID: MW-03:2-4:S
Date Collected: 03/07/16 14:00
Date Received: 03/08/16 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | 1 | 8.0025 g | 5 mL | 170168 | 03/08/16 14:50 | PJJ | TAL PIT |
| Total/NA | Analysis | 8260C | | | 8.0025 g | 5 mL | 170197 | 03/08/16 17:32 | PJJ | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 1 | 1.13 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.13 g | 100 mL | 170609 | 03/11/16 12:06 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 1 | 1.13 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.13 g | 100 mL | 170677 | 03/11/16 16:46 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 7471B | | 1 | 0.62 g | 100 mL | 170283 | 03/09/16 08:47 | EVR | TAL PIT |
| Total/NA | Analysis | 7471B | | | 0.62 g | 100 mL | 170361 | 03/09/16 11:48 | EVR | TAL PIT |
| Instrument ID: K | | | | | | | | | | |

Lab Sample ID: 180-52761-4
Matrix: Solid

Client Sample ID: MW-04:8-10:S
Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2540G | | 1 | | | 170398 | 03/09/16 15:46 | MTW | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Sample ID: 180-52761-4
Matrix: Solid
Percent Solids: 88.7

Client Sample ID: MW-04:8-10:S
Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | 1 | 7.8165 g | 5 mL | 170168 | 03/08/16 14:52 | PJJ | TAL PIT |
| Total/NA | Analysis | 8260C | | | 7.8165 g | 5 mL | 170197 | 03/08/16 17:54 | PJJ | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 1 | 1.18 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.18 g | 100 mL | 170609 | 03/11/16 11:40 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 3050B | | 2 | 1.18 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |
| Total/NA | Analysis | 6010C | | | 1.18 g | 100 mL | 170609 | 03/11/16 12:16 | RJR | TAL PIT |
| Instrument ID: Q | | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.18 g | 100 mL | 170359 | 03/09/16 12:59 | ANA | TAL PIT |

TestAmerica Pittsburgh

Lab Chronicle

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-04:8-10:S

Lab Sample ID: 180-52761-4

Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 88.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010C | | 1 | 1.18 g | 100 mL | 170677 | 03/11/16 16:21 | RJR | TAL PIT |
| Total/NA | Prep | 7471B | | | 0.70 g | 100 mL | 170283 | 03/09/16 06:47 | EVR | TAL PIT |
| Total/NA | Analysis | 7471B | | 1 | 0.70 g | 100 mL | 170361 | 03/09/16 11:49 | EVR | TAL PIT |

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

EVR = Emilie Reichenbach

PJJ = Patrick Jourmet

Batch Type: Analysis

EVR = Emilie Reichenbach

MTW = Michael Wesoloski

PJJ = Patrick Jourmet

RJR = Ron Rosenbaum

TestAmerica Pittsburgh

3/22/2016

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-01:10-12:S

Lab Sample ID: 180-52761-1

Date Collected: 03/07/16 11:30
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 89.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane | 0.63 | J | 4.0 | 0.39 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.0 | 0.58 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.0 | 0.86 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.0 | 0.67 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,1-Dichloroethane | ND | | 4.0 | 0.46 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,1-Dichloroethene | ND | | 4.0 | 0.68 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | 0.60 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 0.64 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2-Dichloroethane | ND | | 4.0 | 0.49 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2-Dichloropropane | ND | | 4.0 | 0.44 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.0 | 0.71 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 0.51 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 2-Butanone (MEK) | ND | | 4.0 | 0.71 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 2-Hexanone | ND | | 4.0 | 0.55 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | Ac | 4.0 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Acetone | ND | | 16 | 4.0 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Benzene | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Bromoform | ND | | 4.0 | 0.35 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Bromomethane | ND | | 4.0 | 0.59 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Carbon disulfide | ND | Ac | 4.0 | 0.41 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Carbon tetrachloride | ND | | 4.0 | 0.36 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Chlorobenzene | ND | | 4.0 | 0.61 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Chlorodibromomethane | ND | | 4.0 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Chloroform | ND | | 4.0 | 0.47 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Chloromethane | ND | Ac | 4.0 | 0.68 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Chloroethane | ND | | 4.0 | 1.2 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.0 | 0.56 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Dichlorobromomethane | ND | | 4.0 | 0.45 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Dichlorodifluoromethane | ND | Ac | 4.0 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Ethylbenzene | ND | | 4.0 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 1,2-Dibromoethane | ND | | 4.0 | 0.69 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Cyclohexane | ND | | 4.0 | 0.30 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Isopropylbenzene | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Methyl acetate | ND | | 20 | 0.72 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.60 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Methylcyclohexane | ND | | 4.0 | 0.58 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Methylene Chloride | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Styrene | ND | | 4.0 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Tetrachloroethene | ND | | 4.0 | 0.55 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Toluene | ND | | 4.0 | 0.59 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.0 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Trichloroethene | ND | | 4.0 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Trichlorofluoromethane | ND | Ac | 4.0 | 0.74 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Vinyl chloride | ND | | 4.0 | 0.38 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Arenes, Total | ND | | 12 | 1.8 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 16:46 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-01:10-12:S

Lab Sample ID: 180-52761-1

Date Collected: 03/07/16 11:30
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 89.3

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 52 - 124 | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 63 - 120 | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 68 - 121 | 03/08/16 14:50 | 03/08/16 16:46 | 1 |
| Toluene-d8 (Surr) | 100 | | 72 - 127 | 03/08/16 14:50 | 03/08/16 16:46 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Silver | ND | | 0.54 | 0.073 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Arsenic | 25 | | 1.1 | 0.62 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Barium | 26 | | 22 | 0.045 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Cadmium | 37 | | 0.54 | 0.031 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Chromium | 26 | | 0.54 | 0.047 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Lead | 9.9 | | 1.1 | 0.20 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |
| Selenium | ND | | 1.1 | 0.35 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:20 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.032 | J | 0.036 | 0.0080 | mg/Kg | * | 03/09/16 06:47 | 03/09/16 11:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 10.7 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |
| Percent Solids | 89.3 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |

Client Sample ID: MW-02:8-10:S

Lab Sample ID: 180-52761-2

Date Collected: 03/07/16 15:20
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 84.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 4.0 | 0.39 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.0 | 0.58 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.0 | 0.86 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.0 | 0.67 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,1-Dichloroethane | ND | | 4.0 | 0.46 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,1-Dichloroethene | ND | | 4.0 | 0.68 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | 0.60 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 0.64 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2-Dichloroethane | ND | | 4.0 | 0.49 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2-Dichloropropane | ND | | 4.0 | 0.44 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.0 | 0.71 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 0.51 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 2-Butanone (MEK) | ND | | 4.0 | 0.71 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 2-Hexanone | ND | | 4.0 | 0.56 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | ^c | 4.0 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Acetone | ND | | 16 | 4.0 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Benzene | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Bromoform | ND | | 4.0 | 0.36 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Dimethylmethane | ND | | 4.0 | 0.59 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Carbon disulfide | ND | ^c | 4.0 | 0.41 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-02:8-10:S

Lab Sample ID: 180-52761-2

Matrix: Solid

Date Collected: 03/07/16 15:20

Percent Solids: 84.0

Date Received: 03/08/16 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Carbon tetrachloride | ND | | 4.0 | 0.36 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Chlorobenzene | ND | | 4.0 | 0.61 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Chlorodibromomethane | ND | | 4.0 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Chloroform | ND | | 4.0 | 0.47 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Chloromethane | ND | Ac | 4.0 | 0.68 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Chloroethane | ND | | 4.0 | 1.2 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.0 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 0.55 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Dichlorobromomethane | ND | | 4.0 | 0.45 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Dichlorodifluoromethane | ND | Ac | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Ethylbenzene | ND | | 4.0 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 1,2-Dibromoethane | ND | | 4.0 | 0.69 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Cyclohexane | ND | | 4.0 | 0.30 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Isopropylbenzene | ND | | 4.0 | 0.55 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Methyl acetate | ND | | 20 | 0.72 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.60 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Methylcyclohexane | ND | | 4.0 | 0.58 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Methylene Chloride | ND | | 4.0 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Styrene | ND | | 4.0 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Tetrachloroethene | ND | | 4.0 | 0.55 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Toluene | ND | | 4.0 | 0.59 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.0 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Trichloroethene | ND | | 4.0 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Trichlorofluoromethane | ND | Ac | 4.0 | 0.74 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Vinyl chloride | ND | | 4.0 | 0.38 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Xylenes, Total | ND | | 12 | 1.8 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 52 - 124 | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 63 - 120 | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 68 - 121 | 03/08/16 14:50 | 03/08/16 17:09 | 1 |
| Toluene-d8 (Surr) | 101 | | 72 - 127 | 03/08/16 14:50 | 03/08/16 17:09 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Silver | ND | | 0.55 | 0.074 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Arsenic | 6.0 | | 1.1 | 0.63 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Barium | 78 | | 22 | 0.045 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Cadmium | 1.1 | | 0.55 | 0.031 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Chromium | 24 | | 0.55 | 0.048 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Lead | 16 | | 1.1 | 0.20 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |
| Selenium | 0.93 | J | 1.1 | 0.35 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.038 | | 0.037 | 0.0082 | mg/Kg | * | 03/09/16 06:47 | 03/09/16 11:46 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-02:8-10:S

Date Collected: 03/07/16 15:20
Date Received: 03/08/16 09:30

Lab Sample ID: 180-52761-2

Matrix: Solid
Percent Solids: 84.0

| General Chemistry | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Analyte | 16.0 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |
| Percent Moisture | 84.0 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |
| Percent Solids | | | | | | | | | |

Lab Sample ID: 180-52761-3

Matrix: Solid
Percent Solids: 87.0

Client Sample ID: MW-03:2-4:S

Date Collected: 03/07/16 14:00
Date Received: 03/08/16 09:30

| Method: 8260C - Volatile Organic Compounds by GC/MS | | | | | | | | | |
|---|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | ND | | 3.6 | 0.35 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.6 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.6 | 0.77 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.6 | 0.60 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,1-Dichloroethane | ND | | 3.6 | 0.41 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,1-Dichloroethene | ND | | 3.6 | 0.81 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.6 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.6 | 0.57 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2-Dichloroethane | ND | | 3.6 | 0.44 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2-Dichloropropane | ND | | 3.6 | 0.39 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.6 | 0.63 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.6 | 0.46 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 3utanone (MEK) | ND | | 3.6 | 0.63 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 2-Hexanone | ND | | 3.6 | 0.50 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | ^c | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Acetone | ND | | 14 | 3.6 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Benzene | ND | | 3.6 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Bromoform | ND | | 3.6 | 0.32 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Bromomethane | ND | | 3.6 | 0.53 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Carbon disulfide | ND | ^c | 3.6 | 0.37 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Carbon tetrachloride | ND | | 3.6 | 0.32 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Chlorobenzene | ND | | 3.6 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Chlorodibromomethane | ND | | 3.6 | 0.51 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Chloroform | ND | | 3.6 | 0.42 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Chloromethane | ND | ^c | 3.6 | 0.61 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Chloroethane | ND | | 3.6 | 1.1 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.6 | 0.50 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Dichlorobromomethane | ND | | 3.6 | 0.40 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Dichlorodifluoromethane | ND | ^c | 3.6 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Ethylbenzene | ND | | 3.6 | 0.46 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 1,2-Dibromoethane | ND | | 3.6 | 0.62 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Cyclohexane | ND | | 3.6 | 0.27 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Isopropylbenzene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Methyl acetate | ND | | 18 | 0.65 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Methyl tert-butyl ether | ND | | 3.6 | 0.54 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Methylcyclohexane | ND | | 3.6 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| *Methylene Chloride | ND | | 3.6 | 0.48 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| ylene | ND | | 3.6 | 0.51 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Tetrachloroethene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-03-2-4:S

Lab Sample ID: 180-52761-3

Date Collected: 03/07/16 14:00
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 87.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Toluene | ND | | 3.6 | 0.52 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.6 | 0.43 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.6 | 0.43 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Trichloroethene | ND | | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Trichlorofluoromethane | ND | Ac | 3.6 | 0.66 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Vinyl chloride | ND | | 3.6 | 0.34 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| Xylenes, Total | ND | | 11 | 1.6 | ug/Kg | * | 03/08/16 14:50 | 03/08/16 17:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 79 | | 52 - 124 |
| 4-Bromofluorobenzene (Surr) | 88 | | 63 - 120 |
| Dibromofluoromethane (Surr) | 92 | | 68 - 121 |
| Toluene-d8 (Surr) | 98 | | 72 - 127 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 03/08/16 14:50 | 03/08/16 17:32 | 1 |
| 03/08/16 14:50 | 03/08/16 17:32 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Silver | ND | | 0.51 | 0.068 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |
| Arsenic | 22 | | 1.0 | 0.58 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |
| Barium | 32 | | 20 | 0.042 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 16:46 | 1 |
| Cadmium | 0.86 | | 0.51 | 0.029 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |
| Chromium | 18 | | 0.51 | 0.044 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |
| Lead | 17 | | 1.0 | 0.18 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |
| Selenium | 0.73 | J | 1.0 | 0.33 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:06 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.045 | | 0.037 | 0.0082 | mg/Kg | * | 03/09/16 06:47 | 03/09/16 11:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 13.0 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |
| Percent Solids | 87.0 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |

Lab Sample ID: 180-52761-4

Client Sample ID: MW-04-8-10:S

Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 88.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 3.6 | 0.35 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.6 | 0.52 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.6 | 0.77 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.6 | 0.60 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,1-Dichloroethane | ND | | 3.6 | 0.42 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,1-Dichloroethene | ND | | 3.6 | 0.61 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.6 | 0.54 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.6 | 0.58 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2-Dichloroethane | ND | | 3.6 | 0.44 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2-Dichloropropane | ND | | 3.6 | 0.39 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.6 | 0.64 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-04:8-10:S

Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

Lab Sample ID: 180-52761-4

Matrix: Solid
Percent Solids: 88.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,4-Dichlorobenzene | ND | | 3.6 | 0.46 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 2-Butanone (MEK) | ND | | 3.6 | 0.64 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 2-Hexanone | ND | | 3.6 | 0.50 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | ^c | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Acetone | ND | | 14 | 3.6 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Benzene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Bromoform | ND | | 3.6 | 0.32 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Bromomethane | ND | ^c | 3.6 | 0.53 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Carbon disulfide | ND | | 3.6 | 0.37 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Carbon tetrachloride | ND | | 3.6 | 0.32 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Chlorobenzene | ND | | 3.6 | 0.55 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Chlorodibromomethane | ND | | 3.6 | 0.51 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Chloroform | ND | ^c | 3.6 | 0.42 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Chloromethane | ND | | 3.6 | 0.61 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Chloroethane | ND | | 3.6 | 1.1 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.6 | 0.51 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Dichlorobromomethane | ND | | 3.6 | 0.40 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Dichlorodifluoromethane | ND | ^c | 3.6 | 0.48 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Ethylbenzene | ND | | 3.6 | 0.46 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 1,2-Dibromoethane | ND | | 3.6 | 0.62 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| cyclohexane | ND | | 3.6 | 0.27 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| isopropylbenzene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Methyl acetate | ND | | 18 | 0.65 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Methyl tert-butyl ether | ND | | 3.6 | 0.54 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Methylcyclohexane | ND | | 3.6 | 0.52 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Methylene Chloride | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Styrene | ND | | 3.6 | 0.51 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Tetrachloroethene | ND | | 3.6 | 0.49 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Toluene | ND | | 3.6 | 0.53 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.6 | 0.43 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.6 | 0.43 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Trichloroethene | ND | | 3.6 | 0.47 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Trichlorofluoromethane | ND | ^c | 3.6 | 0.66 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Vinyl chloride | ND | | 3.6 | 0.34 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Xylenes, Total | ND | | 11 | 1.6 | ug/Kg | * | 03/08/16 14:52 | 03/08/16 17:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 52 - 124 | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 63 - 120 | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 68 - 121 | 03/08/16 14:52 | 03/08/16 17:54 | 1 |
| Toluene-d8 (Surr) | 100 | | 72 - 127 | 03/08/16 14:52 | 03/08/16 17:54 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Silver | ND | F1 | 0.96 | 0.13 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:16 | 2 |
| Arsenic | 2.3 | | 0.96 | 0.54 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:40 | 1 |
| Barium | 420 | F1 | 19 | 0.039 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:40 | 1 |
| Cadmium | 1.2 | | 0.48 | 0.027 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 16:21 | 1 |
| Chromium | 13 | | 0.48 | 0.041 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:40 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-04:8-10:S

Lab Sample ID: 180-52761-4

Date Collected: 03/07/16 13:10
Date Received: 03/08/16 09:30

Matrix: Solid
Percent Solids: 88.7

| Method: 6010C - Metals (ICP) (Continued) | | | | | | | | | |
|--|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Lead | 8.5 | | 0.96 | 0.17 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 11:40 | 1 |
| Selenium | 0.82 | J | 1.9 | 0.61 | mg/Kg | * | 03/09/16 12:59 | 03/11/16 12:16 | 2 |

| Method: 7471B - Mercury (CVAA) | | | | | | | | | |
|--------------------------------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Mercury | 0.019 | J | 0.032 | 0.0071 | mg/Kg | * | 03/09/16 06:47 | 03/09/16 11:49 | 1 |

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Percent Moisture | 11.3 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |
| Percent Solids | 88.7 | | 0.1 | 0.1 | % | | | 03/09/16 15:46 | 1 |

QC Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170168

Lab Sample ID: MB 180-170168/1-A
Matrix: Solid
Analysis Batch: 170197

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|---------------------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|-----|-----|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.49 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.72 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.83 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.58 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.85 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.75 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.80 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.54 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.88 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.64 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.88 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 2-Hexanone | ND | | 5.0 | 0.69 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.65 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Acetone | ND | | 20 | 5.0 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Bromoform | ND | | 5.0 | 0.44 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Bromomethane | ND | | 5.0 | 0.74 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Carbon disulfide | ND | | 5.0 | 0.51 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.45 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Chlorobenzene | ND | | 5.0 | 0.76 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.71 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Chloroform | ND | | 5.0 | 0.58 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Chloromethane | ND | | 5.0 | 0.85 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Chloroethane | ND | | 5.0 | 1.5 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.70 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.68 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.56 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.67 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.86 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Cyclohexane | ND | | 5.0 | 0.37 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Isopropylbenzene | ND | | 25 | 0.68 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Methyl acetate | ND | | 5.0 | 0.90 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.75 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.73 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Methylene Chloride | ND | | 5.0 | 0.67 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Styrene | ND | | 5.0 | 0.71 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.68 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.60 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.60 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Trichloroethene | ND | | 5.0 | 0.66 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.92 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Trichloroethylene | ND | | 5.0 | 0.47 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 03/08/16 07:33 | 03/08/16 10:53 | | 1 |

TestAmerica Pittsburgh

QC Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

| Surrogate | MB MB %Recovery Qualifier | Limits |
|-----------------------------|------------------------------|----------|
| 2-Dichloroethane-d4 (Surr) | 85 | 52 - 124 |
| 4-Bromofluorobenzene (Surr) | 92 | 63 - 120 |
| Dibromofluoromethane (Surr) | 93 | 68 - 121 |
| Toluene-d8 (Surr) | 99 | 72 - 127 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 03/08/16 07:33 | 03/08/16 10:53 | 1 |
| 03/08/16 07:33 | 03/08/16 10:53 | 1 |
| 03/08/16 07:33 | 03/08/16 10:53 | 1 |
| 03/08/16 07:33 | 03/08/16 10:53 | 1 |

Lab Sample ID: LCS 180-170168/2-A
Matrix: Solid
Analysis Batch: 170197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170168
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|----------|
| 1,1,1-Trichloroethane | 40.0 | 35.8 | | ug/Kg | | 90 | 67 - 126 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 43.3 | | ug/Kg | | 108 | 60 - 139 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 37.4 | | ug/Kg | | 94 | 55 - 130 |
| 1,1,2-Trichloroethane | 40.0 | 41.7 | | ug/Kg | | 104 | 70 - 128 |
| 1,1-Dichloroethane | 40.0 | 37.9 | | ug/Kg | | 95 | 66 - 124 |
| 1,1-Dichloroethene | 40.0 | 36.3 | | ug/Kg | | 91 | 59 - 129 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 38.8 | | ug/Kg | | 97 | 35 - 136 |
| 1,2-Dichlorobenzene | 40.0 | 41.4 | | ug/Kg | | 103 | 71 - 124 |
| 1,2-Dichloroethane | 40.0 | 36.3 | | ug/Kg | | 91 | 61 - 127 |
| 1,2-Dichloropropane | 40.0 | 39.8 | | ug/Kg | | 100 | 72 - 122 |
| 1,2,4-Trichlorobenzene | 40.0 | 42.0 | | ug/Kg | | 105 | 51 - 136 |
| 1,3-Dichlorobenzene | 40.0 | 40.8 | | ug/Kg | | 102 | 75 - 118 |
| 1,4-Dichlorobenzene | 40.0 | 40.5 | | ug/Kg | | 101 | 77 - 116 |
| 2-Butanone (MEK) | 40.0 | 36.6 | | ug/Kg | | 91 | 35 - 149 |
| 2-Hexanone | 40.0 | 43.3 | | ug/Kg | | 108 | 32 - 150 |
| Methyl-2-pentanone (MIBK) | 40.0 | 47.0 | | ug/Kg | | 117 | 44 - 148 |
| Acetone | 40.0 | 33.0 | | ug/Kg | | 82 | 20 - 150 |
| Benzene | 40.0 | 38.8 | | ug/Kg | | 97 | 77 - 120 |
| Bromoform | 40.0 | 39.0 | | ug/Kg | | 98 | 53 - 140 |
| Bromomethane | 40.0 | 35.3 | | ug/Kg | | 88 | 25 - 150 |
| Carbon disulfide | 40.0 | 33.2 | | ug/Kg | | 83 | 50 - 127 |
| Carbon tetrachloride | 40.0 | 36.4 | | ug/Kg | | 91 | 69 - 122 |
| Chlorobenzene | 40.0 | 40.4 | | ug/Kg | | 101 | 79 - 120 |
| Chlorodibromomethane | 40.0 | 41.5 | | ug/Kg | | 104 | 70 - 132 |
| Chloroform | 40.0 | 37.3 | | ug/Kg | | 93 | 72 - 120 |
| Chloromethane | 40.0 | 32.0 | | ug/Kg | | 80 | 44 - 131 |
| Chloroethane | 40.0 | 31.9 | | ug/Kg | | 80 | 22 - 150 |
| cis-1,2-Dichloroethene | 40.0 | 37.3 | | ug/Kg | | 93 | 80 - 118 |
| cis-1,3-Dichloropropene | 40.0 | 40.7 | | ug/Kg | | 102 | 73 - 120 |
| Dichlorobromomethane | 40.0 | 38.4 | | ug/Kg | | 96 | 70 - 125 |
| Dichlorodifluoromethane | 40.0 | 24.6 | | ug/Kg | | 62 | 25 - 150 |
| Ethylbenzene | 40.0 | 40.0 | | ug/Kg | | 100 | 78 - 125 |
| 1,2-Dibromoethane | 40.0 | 41.7 | | ug/Kg | | 104 | 70 - 131 |
| Cyclohexane | 40.0 | 38.8 | | ug/Kg | | 97 | 64 - 130 |
| Isopropylbenzene | 200 | 40.8 | | ug/Kg | | 102 | 70 - 133 |
| Methyl acetate | 40.0 | 193 | | ug/Kg | | 96 | 27 - 142 |
| Methyl tert-butyl ether | 40.0 | 39.3 | | ug/Kg | | 98 | 48 - 132 |
| Methylcyclohexane | 40.0 | 39.2 | | ug/Kg | | 98 | 66 - 135 |
| Methylene Chloride | 40.0 | 37.0 | | ug/Kg | | 92 | 58 - 127 |
| m-Xylene & p-Xylene | 40.0 | 40.1 | | ug/Kg | | 100 | 75 - 126 |
| n-Xylene | 40.0 | 40.9 | | ug/Kg | | 102 | 83 - 127 |
| Perfluorobenzene | 40.0 | 40.9 | | ug/Kg | | 102 | 83 - 129 |
| Tetrachloroethene | 40.0 | 41.0 | | ug/Kg | | 102 | 78 - 129 |

TestAmerica Pittsburgh

QC Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

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

Lab Sample ID: LCS 180-170168/2-A
Matrix: Solid
Analysis Batch: 170197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170168
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------------------------|-------------|------------|---------------|-------|---|------|----------|
| Toluene | 40.0 | 39.9 | | ug/Kg | | 100 | 78 - 124 |
| trans-1,2-Dichloroethene | 40.0 | 37.2 | | ug/Kg | | 93 | 77 - 121 |
| trans-1,3-Dichloropropene | 40.0 | 42.2 | | ug/Kg | | 105 | 74 - 129 |
| Trichloroethene | 40.0 | 38.6 | | ug/Kg | | 96 | 76 - 119 |
| Trichlorofluoromethane | 40.0 | 30.8 | | ug/Kg | | 77 | 20 - 150 |
| Vinyl chloride | 40.0 | 34.1 | | ug/Kg | | 85 | 63 - 124 |
| Xylenes, Total | 80.0 | 81.0 | | ug/Kg | | 101 | 83 - 126 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 52 - 124 |
| 4-Bromofluorobenzene (Surr) | 96 | | 63 - 120 |
| Dibromofluoromethane (Surr) | 96 | | 68 - 121 |
| Toluene-d8 (Surr) | 98 | | 72 - 127 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-170359/1-A
Matrix: Solid
Analysis Batch: 170609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170359

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Silver | ND | | 0.47 | 0.063 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Arsenic | ND | | 0.94 | 0.54 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Barium | ND | | 19 | 0.039 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Cadmium | ND | | 0.47 | 0.027 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Chromium | 0.0755 | J | 0.47 | 0.041 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Lead | ND | | 0.94 | 0.17 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |
| Selenium | ND | | 0.94 | 0.30 | mg/Kg | | 03/09/16 12:59 | 03/11/16 09:37 | 1 |

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170359
%Rec.

Lab Sample ID: LCS 180-170359/2-A
Matrix: Solid
Analysis Batch: 170609

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Silver | 4.85 | 4.66 | | mg/Kg | | 96 | 80 - 120 |
| Arsenic | 48.5 | 46.4 | | mg/Kg | | 96 | 80 - 120 |
| Barium | 194 | 190 | | mg/Kg | | 98 | 80 - 120 |
| Cadmium | 4.85 | 4.54 | | mg/Kg | | 94 | 80 - 120 |
| Chromium | 19.4 | 18.8 | | mg/Kg | | 97 | 80 - 120 |
| Lead | 48.5 | 44.6 | | mg/Kg | | 92 | 80 - 120 |
| Selenium | 48.5 | 48.1 | | mg/Kg | | 99 | 80 - 120 |

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec.

Lab Sample ID: 180-52761-4 MS
Matrix: Solid
Analysis Batch: 170609

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Arsenic | 2.3 | | 51.7 | 44.1 | | mg/Kg | | 81 | 75 - 125 |

TestAmerica Pittsburgh

QC Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

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

Lab Sample ID: 180-52761-4 MS
Matrix: Solid
Analysis Batch: 170609

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Barium | 420 | F1 | 20.7 | 637 | | mg/Kg | ☒ | 107 | 75 - 125 |
| Chromium | 13 | | 20.7 | 33.6 | | mg/Kg | ☒ | 99 | 75 - 125 |
| Lead | 8.5 | | 51.7 | 52.0 | | mg/Kg | ☒ | 84 | 75 - 125 |

Lab Sample ID: 180-52761-4 MS
Matrix: Solid
Analysis Batch: 170609

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Silver | ND | F1 | 5.17 | 3.60 | F1 | mg/Kg | ☒ | 70 | 75 - 125 |
| Selenium | 0.82 | J | 51.7 | 44.8 | | mg/Kg | ☒ | 85 | 75 - 125 |

Lab Sample ID: 180-52761-4 MS
Matrix: Solid
Analysis Batch: 170677

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Cadmium | 0.98 | A | 5.17 | 5.85 | | mg/Kg | ☒ | 94 | 75 - 125 |

Lab Sample ID: 180-52761-4 MSD
Matrix: Solid
Analysis Batch: 170609

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Arsenic | 2.3 | | 54.8 | 46.8 | | mg/Kg | ☒ | 81 | 75 - 125 | 6 | 20 |
| Barium | 420 | F1 | 219 | 699 | F1 | mg/Kg | ☒ | 129 | 75 - 125 | 9 | 20 |
| Chromium | 13 | | 21.9 | 33.6 | | mg/Kg | ☒ | 94 | 75 - 125 | 0 | 20 |
| Lead | 8.5 | | 54.8 | 52.8 | | mg/Kg | ☒ | 81 | 75 - 125 | 2 | 20 |
| Selenium | 0.87 | J | 54.8 | 46.1 | | mg/Kg | ☒ | 83 | 75 - 125 | 4 | 20 |

Lab Sample ID: 180-52761-4 MSD
Matrix: Solid
Analysis Batch: 170609

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Silver | ND | F1 | 5.48 | 3.74 | F1 | mg/Kg | ☒ | 68 | 75 - 125 | 4 | 20 |
| Selenium | 0.82 | J | 54.8 | 46.6 | | mg/Kg | ☒ | 84 | 75 - 125 | 4 | 20 |

Lab Sample ID: 180-52761-4 MSD
Matrix: Solid
Analysis Batch: 170677

Client Sample ID: MW-04:8-10:S
Prep Type: Total/NA
Prep Batch: 170359
%Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Cadmium | 0.98 | A | 5.48 | 6.11 | | mg/Kg | ☒ | 94 | 75 - 125 | 18 | 20 |

TestAmerica Pittsburgh

QC Sample Results

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Method: 7471B - Mercury (CVAA)

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170283

Lab Sample ID: MB 180-170283/1-A
Matrix: Solid
Analysis Batch: 170361

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | ND | | 0.033 | 0.0074 | mg/Kg | | 03/09/16 06:47 | 03/09/16 11:34 | 1 |

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170283

Lab Sample ID: LCS 180-170283/2-A
Matrix: Solid
Analysis Batch: 170361

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|-------|---|------|----------|
| Mercury | 0.417 | 0.419 | | mg/Kg | | 101 | 80 - 120 |

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170283

Lab Sample ID: LCSD 180-170283/3-A
Matrix: Solid
Analysis Batch: 170361

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Mercury | 0.417 | 0.431 | | mg/Kg | | 103 | 80 - 120 | 3 | 20 |

Method: 2540G - SM 2540G

Client Sample ID: MW-01:10-12:S
Prep Type: Total/NA

Lab Sample ID: 180-52761-1 DU
Matrix: Solid
Analysis Batch: 170398

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Percent Moisture | 10.7 | | 10.4 | | % | | 3 | 20 |
| Percent Solids | 89.3 | | 89.6 | | % | | 0.3 | 20 |

QC Association Summary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

GC/MS VOA

Prep Batch: 170168

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 5035 | |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 5035 | |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 5035 | |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 5035 | |
| LCS 180-170168/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| MB 180-170168/1-A | Method Blank | | | | |

Analysis Batch: 170197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 8260C | 170168 |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 8260C | 170168 |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 8260C | 170168 |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 8260C | 170168 |
| LCS 180-170168/2-A | Lab Control Sample | Total/NA | Solid | 8260C | 170168 |
| MB 180-170168/1-A | Method Blank | | | | |

Metals

Prep Batch: 170283

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 7471B | |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 7471B | |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 7471B | |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 7471B | |
| LCS 180-170283/2-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| LCSD 180-170283/3-A | Lab Control Sample Dup | Total/NA | Solid | 7471B | |
| MB 180-170283/1-A | Method Blank | | | | |

Prep Batch: 170359

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 3050B | |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 3050B | |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 3050B | |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 3050B | |
| 180-52761-4 MS | MW-04:8-10:S | Total/NA | Solid | 3050B | |
| 180-52761-4 MSD | MW-04:8-10:S | Total/NA | Solid | 3050B | |
| LCS 180-170359/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-170359/1-A | Method Blank | | | | |

Analysis Batch: 170361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 7471B | 170283 |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 7471B | 170283 |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 7471B | 170283 |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 7471B | 170283 |
| LCS 180-170283/2-A | Lab Control Sample | Total/NA | Solid | 7471B | 170283 |
| LCSD 180-170283/3-A | Lab Control Sample Dup | Total/NA | Solid | 7471B | 170283 |
| MB 180-170283/1-A | Method Blank | | | | |

TestAmerica Pittsburgh

QC Association Summary

TestAmerica Job ID: 180-52761-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Metals (Continued)

Analysis Batch: 170609

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MS | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MS | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MSD | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MSD | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| LCS 180-170359/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 170359 |
| MB 180-170359/1-A | Method Blank | Total/NA | Solid | 6010C | 170359 |

Analysis Batch: 170677

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MS | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |
| 180-52761-4 MSD | MW-04:8-10:S | Total/NA | Solid | 6010C | 170359 |

General Chemistry

Analysis Batch: 170398

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|--------|------------|
| 180-52761-1 | MW-01:10-12:S | Total/NA | Solid | 2540G | |
| 180-52761-1 DU | MW-01:10-12:S | Total/NA | Solid | 2540G | |
| 180-52761-2 | MW-02:8-10:S | Total/NA | Solid | 2540G | |
| 180-52761-3 | MW-03:2-4:S | Total/NA | Solid | 2540G | |
| 180-52761-4 | MW-04:8-10:S | Total/NA | Solid | 2540G | |

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: WPT/DWP Date: _____

Tel/Fax: _____ Carrier: _____

Client Contact: _____

Company Name: AGI COC No: _____ of _____ COCs

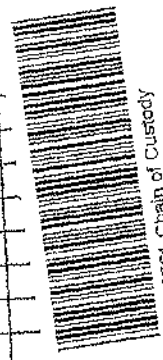
Address: 305 Ross Road Blvd For Lab Use Only: _____
City/State/Zip: MUNTSVILLE VA 15168 Walk-in Client: _____
Phone: 804-333-7000 Lab Sampling: _____

Job / SDG No.: _____

Object Name: 15106-0810 Lincoln Highway Sample Specific Notes: _____

| Sample ID # | Sample Date | Sample Time | Sample Type (C-Cont, G-Grub) | Matrix | # of Cont. | Filtered Sample (Y/N) | Form MS / MSD (Y/N) | Lab Contact | Site Contact |
|---------------|-------------|-------------|------------------------------|--------|------------|-----------------------|---------------------|-------------|--------------|
| MW-01-10-14-S | 3-7 | 1130 | G | W | 2 | | | | |
| MW-02-8-10-S | 3-7 | 1500 | G | W | 2 | | | | |
| MW-03-8-11-S | 3-7 | 1400 | G | W | 2 | | | | |
| MW-04-8-10-S | 3-7 | 1310 | G | W | 2 | | | | |

Analysis Turnaround Time: WORKING DAYS
 CALENDAR DAYS
TAT If different from Below: _____
2 weeks
1 week
2 days
1 day

Barcode:  180-52761 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):
 Return to Client
 Disposal by Lab
 Archive for _____ Months

Special Instructions/QC Requirements & Comments: _____

Received by: RON SUNDA Date/Time: 3-8-16 8:45A
 Received by: AGI Date/Time: 3-8-16 8:45A
 Received by: QUICK LABOR Date/Time: 3-8-16 9:30A
 Received in Laboratory by: _____

Company: AGI Company: QUICK
 Company: QUICK LABOR Company: _____

Therm ID No.: _____

22-03.2 #1

Login Sample Receipt Checklist

Job Number: 180-52761-1

Client: American Geosciences, Inc.

List Source: TestAmerica Pittsburgh

Login Number: 52761
 List Number: 1
 Creator: Kovitch, Christina M

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| 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 | |
| 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 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. | True | |
| 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. | True | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-52965-1
Client Project/Site: 1810 Lincoln Highway

For:
American Geosciences, Inc.
3925 Reed Boulevard
Suite 400
Murrysville, Pennsylvania 15668-1848

Attn: Bryce Rupp



Authorized for release by:
3/24/2016 2:31:50 PM

Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

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The
Expert**

Visit us at:

www.testamericainc.com

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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Case Narrative

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Job ID: 180-52965-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-52965-1

Receipt

The samples were received on 3/14/2016 12:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

The continuing calibration verification (CCV) analyzed in batch 180-171343 was outside the method criteria for the following analytes: 2-Butanone (MEK), 2-Hexanone, and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Metals

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

Definitions/Glossary

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Qualifiers

GC/MS VOA

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

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| 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. |
|----------------|---|
| □ | 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| | Not Calculated |
| | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

TestAmerica Pittsburgh

3/24/2016

Certification Summary

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------|---------|------------|------------------|-----------------|
| Pennsylvania | NELAP | 3 | 02-00416 | 04-30-16 |

TestAmerica Pittsburgh

3/24/2016

Sample Summary

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

| Sample ID | Client Sample ID | Matrix | Collected | Received |
|-------------|------------------|--------|----------------|----------------|
| 180-52965-1 | MW-01:201603:W | Water | 03/11/16 09:55 | 03/14/16 12:20 |
| 180-52965-2 | MW-02:201603:W | Water | 03/11/16 12:15 | 03/14/16 12:20 |
| 180-52965-3 | MW-03:201603:W | Water | 03/11/16 11:30 | 03/14/16 12:20 |
| 180-52965-4 | MW-04:201603:W | Water | 03/11/16 10:45 | 03/14/16 12:20 |
| 180-52965-5 | FD-01:201603:W | Water | 03/11/16 00:00 | 03/14/16 12:20 |
| 180-52965-6 | TRIP BLANK | Water | 03/11/16 00:00 | 03/14/16 12:20 |

Method Summary

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 6260C | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 6010C | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |

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

Laboratory References:
TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Lab Sample ID: 180-52965-1
Matrix: Water

Client Sample ID: MW-01:201603:W

Date Collected: 03/11/16 09:55

Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 13:07 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 170798 | 03/15/16 07:58 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | 50 mL | 50 mL | 170990 | 03/16/16 10:42 | RJG | TAL PIT |
| | Instrument ID: C | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 170861 | 03/15/16 12:07 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | 50 mL | 50 mL | 171022 | 03/16/16 12:14 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |

Lab Sample ID: 180-52965-2
Matrix: Water

Client Sample ID: MW-02:201603:W

Date Collected: 03/11/16 12:15

Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 16:48 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 170798 | 03/15/16 07:58 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | 50 mL | 50 mL | 170990 | 03/16/16 10:47 | RJG | TAL PIT |
| | Instrument ID: C | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 170861 | 03/15/16 12:07 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | 50 mL | 50 mL | 171022 | 03/16/16 12:16 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |

Lab Sample ID: 180-52965-3
Matrix: Water

Client Sample ID: MW-03:201603:W

Date Collected: 03/11/16 11:30

Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 17:12 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 170798 | 03/15/16 07:58 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | 50 mL | 50 mL | 170990 | 03/16/16 10:52 | RJG | TAL PIT |
| | Instrument ID: C | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 170861 | 03/15/16 12:07 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | 50 mL | 50 mL | 171022 | 03/16/16 12:22 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |

Lab Sample ID: 180-52965-4
Matrix: Water

Client Sample ID: MW-04:201603:W

Date Collected: 03/11/16 10:45

Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 17:36 | DLF | TAL PIT |

TestAmerica Pittsburgh

Lab Chronicle

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-04:201603:W

Lab Sample ID: 180-52965-4
Matrix: Water

Date Collected: 03/11/16 10:45
Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 17:36 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 170798 | 03/15/16 07:58 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 170990 | 03/16/16 10:58 | RJG | TAL PIT |
| | Instrument ID: C | | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 170861 | 03/15/16 12:07 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 171022 | 03/16/16 12:24 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |

Lab Sample ID: 180-52965-5
Matrix: Water

Client Sample ID: FD-01:201603:W

Date Collected: 03/11/16 00:00
Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 18:01 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 170798 | 03/15/16 07:58 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 170990 | 03/16/16 10:21 | RJG | TAL PIT |
| | Instrument ID: C | | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 170861 | 03/15/16 12:07 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 171022 | 03/16/16 12:25 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |

Lab Sample ID: 180-52965-6
Matrix: Water

Client Sample ID: TRIP BLANK

Date Collected: 03/11/16 00:00
Date Received: 03/14/16 12:20

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 171343 | 03/21/16 13:31 | DLF | TAL PIT |
| | Instrument ID: CHHP6 | | | | | | | | | |

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

- Lab: TAL PIT
- Batch Type: Prep
 - ANA = Alexis Anderson
 - EVR = Emilie Reichenbach
- Batch Type: Analysis
 - DLF = Donald Ferguson
 - EVR = Emilie Reichenbach
 - RJG = Rob Good

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Lab Sample ID: 180-52965-1
Matrix: Water

Client Sample ID: MW-01:201603:W

Sample Collected: 03/11/16 09:55
Date Received: 03/14/16 12:20

| Method: 8260C - Volatile Organic Compounds (GC/MS) | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|-------|------|----------|----------------|---------|
| Analyte | Result | Qualifier | | | | | | |
| 1,1,1-Trichloroethane | 2.0 | | 1.0 | 0.29 | ug/L | | 03/21/16 13:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | 03/21/16 13:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | 03/21/16 13:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | 03/21/16 13:07 | 1 |
| 1,1-Dichloroethane | 0.98 | J | 1.0 | 0.12 | ug/L | | 03/21/16 13:07 | 1 |
| 1,1-Dichloroethene | 0.73 | J | 1.0 | 0.30 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | 03/21/16 13:07 | 1 |
| 1,3-Dichlorobenzene | 0.19 | J | 1.0 | 0.11 | ug/L | | 03/21/16 13:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | 03/21/16 13:07 | 1 |
| 2-Butanone (MEK) | ND | Ac | 5.0 | 0.55 | ug/L | | 03/21/16 13:07 | 1 |
| 2-Hexanone | ND | Ac | 5.0 | 0.16 | ug/L | | 03/21/16 13:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | 03/21/16 13:07 | 1 |
| Acetone | ND | Ac | 5.0 | 2.5 | ug/L | | 03/21/16 13:07 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | 03/21/16 13:07 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | 03/21/16 13:07 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | 03/21/16 13:07 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | 03/21/16 13:07 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | 03/21/16 13:07 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | 03/21/16 13:07 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.17 | ug/L | | 03/21/16 13:07 | 1 |
| Chloroform | ND | | 1.0 | 0.28 | ug/L | | 03/21/16 13:07 | 1 |
| Chloromethane | ND | | 1.0 | 0.21 | ug/L | | 03/21/16 13:07 | 1 |
| Chloroethane | ND | | 1.0 | 0.24 | ug/L | | 03/21/16 13:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.19 | ug/L | | 03/21/16 13:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.25 | ug/L | | 03/21/16 13:07 | 1 |
| Cyclohexane | ND | | 1.0 | 0.13 | ug/L | | 03/21/16 13:07 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.19 | ug/L | | 03/21/16 13:07 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.23 | ug/L | | 03/21/16 13:07 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.18 | ug/L | | 03/21/16 13:07 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.16 | ug/L | | 03/21/16 13:07 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.14 | ug/L | | 03/21/16 13:07 | 1 |
| Methyl acetate | 1.3 | | 1.0 | 0.18 | ug/L | | 03/21/16 13:07 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.26 | ug/L | | 03/21/16 13:07 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.13 | ug/L | | 03/21/16 13:07 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.097 | ug/L | | 03/21/16 13:07 | 1 |
| Styrene | ND | | 1.0 | 0.15 | ug/L | | 03/21/16 13:07 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | 03/21/16 13:07 | 1 |
| Toluene | ND | | 1.0 | 0.17 | ug/L | | 03/21/16 13:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.15 | ug/L | | 03/21/16 13:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.14 | ug/L | | 03/21/16 13:07 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | 03/21/16 13:07 | 1 |
| Trichlorofluoromethane | ND | | 3.0 | 0.49 | ug/L | | 03/21/16 13:07 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.23 | ug/L | | 03/21/16 13:07 | 1 |
| Vinyl chloride | ND | | | | | | | |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-01:201603:W

Lab Sample ID: 180-52965-1
Matrix: Water

Date Collected: 03/11/16 09:55
Date Received: 03/14/16 12:20

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 72 - 134 | 03/21/16 13:07 | 03/21/16 13:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 72 - 120 | 03/21/16 13:07 | 03/21/16 13:07 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 77 - 127 | 03/21/16 13:07 | 03/21/16 13:07 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | 03/21/16 13:07 | 03/21/16 13:07 | 1 |

| Method: 6010C - Metals (ICP) - Dissolved | | | | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|----------|----------------|----------------|
| Analyte | Result | Qualifier | RL | MDL | Unit | | |
| Silver | ND | | 5.0 | 0.69 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Arsenic | ND | | 10 | 3.7 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Barium | 120 | J | 200 | 0.14 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Lead | ND | | 10 | 2.1 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |
| Selenium | ND | | 10 | 2.5 | ug/L | 03/15/16 07:58 | 03/16/16 10:42 |

| Method: 7470A - Mercury (CVAA) - Dissolved | | | | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-------|----------|----------------|----------------|
| Analyte | Result | Qualifier | RL | MDL | Unit | | |
| Mercury | ND | | 0.20 | 0.052 | ug/L | 03/15/16 12:07 | 03/16/16 12:14 |

Client Sample ID: MW-02:201603:W

Date Collected: 03/11/16 12:15
Date Received: 03/14/16 12:20

Lab Sample ID: 180-52965-2
Matrix: Water

| Method: 8260C - Volatile Organic Compounds (GC/MS) | | | | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|-------|----------|----------------|----------------|
| Analyte | Result | Qualifier | RL | MDL | Unit | | |
| 1,1,1-Trichloroethane | 5.0 | | 1.0 | 0.29 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 2-Butanone (MEK) | ND | ^c | 5.0 | 0.55 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 2-Hexanone | ND | ^c | 5.0 | 0.16 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Acetone | 3.9 | J ^c | 5.0 | 2.5 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Benzene | 0.18 | J | 1.0 | 0.11 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | 03/21/16 16:48 | 03/21/16 16:48 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-02:201603:W

Lab Sample ID: 180-52965-2
Matrix: Water

Date Collected: 03/11/16 12:15
Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 16:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 16:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 16:48 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 16:48 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 16:48 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 16:48 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 16:48 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 16:48 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 03/21/16 16:48 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 16:48 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 16:48 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 16:48 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 16:48 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 16:48 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 16:48 | 1 |
| Toluene | 0.21 | J | 1.0 | 0.17 | ug/L | | | 03/21/16 16:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 16:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 16:48 | 1 |
| Trichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 16:48 | 1 |
| Trichlorofluoromethane | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 16:48 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 16:48 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 16:48 | 1 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 03/21/16 16:48 | 03/21/16 16:48 | 1 |
| 03/21/16 16:48 | 03/21/16 16:48 | 1 |
| 03/21/16 16:48 | 03/21/16 16:48 | 1 |
| 03/21/16 16:48 | 03/21/16 16:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 72 - 134 |
| 4-Bromofluorobenzene (Surr) | 97 | | 72 - 120 |
| Dibromofluoromethane (Surr) | 107 | | 77 - 127 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Barium | 270 | | 200 | 0.14 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Cadmium | 0.26 | J | 5.0 | 0.26 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 03/15/16 07:58 | 03/16/16 10:47 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 03/15/16 12:07 | 03/16/16 12:16 | 1 |

Lab Sample ID: 180-52965-3
Matrix: Water

Client Sample ID: MW-03:201603:W

Date Collected: 03/11/16 11:30
Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Trichloroethane | 43 | | 1.0 | 0.29 | ug/L | | | 03/21/16 17:12 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-03:201603:W

Lab Sample ID: 180-52965-3

Matrix: Water

Sample Collected: 03/11/16 11:30
Sample Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-------------|-----|-------|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,1-Dichloroethane | 8.2 | | 1.0 | 0.12 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,1-Dichloroethene | 6.9 | | 1.0 | 0.30 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,3-Dichlorobenzene | 0.14 | J | 1.0 | 0.11 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:12 | 1 |
| 2-Butanone (MEK) | ND | ^c | 5.0 | 0.55 | ug/L | | | 03/21/16 17:12 | 1 |
| 2-Hexanone | ND | ^c | 5.0 | 0.16 | ug/L | | | 03/21/16 17:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 03/21/16 17:12 | 1 |
| Acetone | 3.7 | J ^c | 5.0 | 2.5 | ug/L | | | 03/21/16 17:12 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 17:12 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:12 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 03/21/16 17:12 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:12 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| Chloroform | 0.29 | J | 1.0 | 0.17 | ug/L | | | 03/21/16 17:12 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 03/21/16 17:12 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 17:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:12 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 17:12 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 17:12 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:12 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 17:12 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 17:12 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 03/21/16 17:12 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 17:12 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 17:12 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 17:12 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 17:12 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:12 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 17:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:12 | 1 |
| Trichloroethene | 0.49 | J | 1.0 | 0.14 | ug/L | | | 03/21/16 17:12 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:12 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 17:12 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 17:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 72 - 134 | | 03/21/16 17:12 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-03:201603:W

Lab Sample ID: 180-52965-3

Date Collected: 03/11/16 11:30
Date Received: 03/14/16 12:20

Matrix: Water

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96 | | 72 - 120 | | 03/21/16 17:12 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 77 - 127 | | 03/21/16 17:12 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | 03/21/16 17:12 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Barium | 110 | J | 200 | 0.14 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Cadmium | 13 | | 5.0 | 0.26 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Chromium | 6.2 | | 5.0 | 0.97 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |
| Selenium | 2.6 | J | 10 | 2.5 | ug/L | | 03/15/16 07:58 | 03/16/16 10:52 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 03/15/16 12:07 | 03/16/16 12:22 | 1 |

Client Sample ID: MW-04:201603:W

Lab Sample ID: 180-52965-4

Date Collected: 03/11/16 10:45
Date Received: 03/14/16 12:20

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,3-Dichlorobenzene | 0.21 | J | 1.0 | 0.11 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:36 | 1 |
| 2-Butanone (MEK) | ND | ^c | 5.0 | 0.55 | ug/L | | | 03/21/16 17:36 | 1 |
| 2-Hexanone | ND | ^c | 5.0 | 0.16 | ug/L | | | 03/21/16 17:36 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 03/21/16 17:36 | 1 |
| Acetone | 5.5 | ^c | 5.0 | 2.5 | ug/L | | | 03/21/16 17:36 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 17:36 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:36 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 03/21/16 17:36 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:36 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 17:36 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 03/21/16 17:36 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-52965-1

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

Client Sample ID: MW-04:201603:W

Lab Sample ID: 180-52965-4

Matrix: Water

Date Collected: 03/11/16 10:45
Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 17:36 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 17:36 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:36 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 17:36 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 17:36 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 17:36 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 17:36 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 17:36 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 03/21/16 17:36 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 17:36 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 17:36 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 17:36 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 17:36 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:36 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:36 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 17:36 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 17:36 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 17:36 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 17:36 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 17:36 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 17:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 72 - 134 | | 03/21/16 17:36 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 72 - 120 | | 03/21/16 17:36 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 77 - 127 | | 03/21/16 17:36 | 1 |
| Toluene-d8 (Surr) | 108 | | 80 - 120 | | 03/21/16 17:36 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Barium | 51 | J | 200 | 0.14 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 03/15/16 07:58 | 03/16/16 10:58 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 03/15/16 12:07 | 03/16/16 12:24 | 1 |

Client Sample ID: FD-01:201603:W

Lab Sample ID: 180-52965-5

Matrix: Water

Date Collected: 03/11/16 00:00
Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.8 | | 1.0 | 0.29 | ug/L | | | 03/21/16 16:01 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Client Sample ID: FD-01:201603:W

Lab Sample ID: 180-52965-5

Date Collected: 03/11/16 00:00
Date Received: 03/14/16 12:20

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,1-Dichloroethane | 0.90 | J | 1.0 | 0.12 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,1-Dichloroethene | 0.64 | J | 1.0 | 0.30 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,3-Dichlorobenzene | 0.22 | J | 1.0 | 0.11 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 18:01 | 1 |
| 2-Butanone (MEK) | ND | ^c | 5.0 | 0.55 | ug/L | | | 03/21/16 18:01 | 1 |
| 2-Hexanone | ND | ^c | 5.0 | 0.16 | ug/L | | | 03/21/16 18:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 03/21/16 18:01 | 1 |
| Acetone | ND | ^c | 5.0 | 2.5 | ug/L | | | 03/21/16 18:01 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 18:01 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 18:01 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 03/21/16 18:01 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 18:01 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 18:01 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 03/21/16 18:01 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 18:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 18:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 18:01 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 18:01 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 18:01 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 18:01 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 18:01 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 18:01 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 03/21/16 18:01 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 18:01 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 18:01 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 18:01 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 18:01 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 18:01 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 18:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 18:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 18:01 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 18:01 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 18:01 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 18:01 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 18:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 72 - 134 | | 03/21/16 18:01 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Client Sample ID: FD-01:201603:W

Lab Sample ID: 180-52965-5

Date Collected: 03/11/16 00:00

Matrix: Water

Date Received: 03/14/16 12:20

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96 | | 72 - 120 | | 03/21/16 18:01 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 77 - 127 | | 03/21/16 18:01 | 1 |
| Toluene-d8 (Surr) | 108 | | 80 - 120 | | 03/21/16 18:01 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Arsenic | 4.0 | J | 10 | 3.7 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Barium | 130 | J | 200 | 0.14 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 03/15/16 07:58 | 03/16/16 10:21 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 03/15/16 12:07 | 03/16/16 12:25 | 1 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-52965-6

Date Collected: 03/11/16 00:00

Matrix: Water

Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 13:31 | 1 |
| 2-Butanone (MEK) | ND | ^c | 5.0 | 0.55 | ug/L | | | 03/21/16 13:31 | 1 |
| 2-Hexanone | ND | ^c | 5.0 | 0.16 | ug/L | | | 03/21/16 13:31 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 03/21/16 13:31 | 1 |
| Acetone | 3.7 | J ^c | 5.0 | 2.5 | ug/L | | | 03/21/16 13:31 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 13:31 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 13:31 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 03/21/16 13:31 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 13:31 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 13:31 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 03/21/16 13:31 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-52965-6

Date Collected: 03/11/16 00:00

Matrix: Water

Date Received: 03/14/16 12:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-------------|-----------|-----|-------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 13:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 13:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 13:31 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 13:31 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 13:31 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 13:31 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 13:31 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 13:31 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 03/21/16 13:31 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 13:31 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 13:31 | 1 |
| Methylene Chloride | 0.68 | J | 1.0 | 0.13 | ug/L | | | 03/21/16 13:31 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 13:31 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 13:31 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 13:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 13:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 13:31 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 13:31 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 13:31 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 13:31 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 13:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 72 - 134 | | 03/21/16 13:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 72 - 120 | | 03/21/16 13:31 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 77 - 127 | | 03/21/16 13:31 | 1 |
| Toluene-d8 (Surr) | 109 | | 80 - 120 | | 03/21/16 13:31 | 1 |

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

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

Lab Sample ID: MB 180-171343/5

Matrix: Water

Analysis Batch: 171343

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-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 12:26 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.55 | ug/L | | | 03/21/16 12:26 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.16 | ug/L | | | 03/21/16 12:26 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 03/21/16 12:26 | 1 |
| Acetone | ND | | 5.0 | 2.5 | ug/L | | | 03/21/16 12:26 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 03/21/16 12:26 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 12:26 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 03/21/16 12:26 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 12:26 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| Chlorodibromomethane | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 12:26 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 03/21/16 12:26 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 03/21/16 12:26 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 03/21/16 12:26 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 12:26 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 03/21/16 12:26 | 1 |
| Dichlorobromomethane | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 12:26 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 03/21/16 12:26 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 12:26 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 12:26 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 12:26 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 03/21/16 12:26 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 03/21/16 12:26 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.13 | ug/L | | | 03/21/16 12:26 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 03/21/16 12:26 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 12:26 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 12:26 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 03/21/16 12:26 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 03/21/16 12:26 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 03/21/16 12:26 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 03/21/16 12:26 | 1 |
| Arenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 03/21/16 12:26 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 03/21/16 12:26 | 1 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|----|----|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | | | 114 | | 72 - 134 | | 03/21/16 12:26 | 1 |
| 4-Bromofluorobenzene (Surr) | | | 98 | | 72 - 120 | | 03/21/16 12:26 | 1 |
| Dibromofluoromethane (Surr) | | | 106 | | 77 - 127 | | 03/21/16 12:26 | 1 |
| Toluene-d8 (Surr) | | | 110 | | 80 - 120 | | 03/21/16 12:26 | 1 |

Lab Sample ID: LCS 180-171343/11
Matrix: Water
Analysis Batch: 171343

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-Trichloroethane | 10.0 | 9.24 | | ug/L | | 92 | 57 - 128 |
| 1,1,1,2-Tetrachloroethane | 10.0 | 11.0 | | ug/L | | 110 | 78 - 135 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.0 | 9.56 | | ug/L | | 96 | 72 - 123 |
| 1,1,2-Trichloroethane | 10.0 | 10.5 | | ug/L | | 105 | 77 - 127 |
| 1,1-Dichloroethane | 10.0 | 9.10 | | ug/L | | 91 | 76 - 126 |
| 1,1-Dichloroethene | 10.0 | 9.19 | | ug/L | | 92 | 71 - 122 |
| 1,2,4-Trichlorobenzene | 10.0 | 9.24 | | ug/L | | 92 | 51 - 138 |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.48 | | ug/L | | 95 | 55 - 139 |
| 1,2-Dichlorobenzene | 10.0 | 9.72 | | ug/L | | 97 | 80 - 120 |
| 1,2-Dichloroethane | 10.0 | 9.76 | | ug/L | | 98 | 72 - 126 |
| 1,2-Dichloropropane | 10.0 | 8.87 | | ug/L | | 89 | 78 - 123 |
| 1,3-Dichlorobenzene | 10.0 | 9.81 | | ug/L | | 98 | 80 - 120 |
| 1,4-Dichlorobenzene | 10.0 | 9.54 | | ug/L | | 95 | 80 - 120 |
| 2-Butanone (MEK) | 20.0 | 19.6 | | ug/L | | 98 | 41 - 150 |
| 2-Hexanone | 20.0 | 18.0 | | ug/L | | 90 | 40 - 150 |
| Methyl-2-pentanone (MIBK) | 20.0 | 19.6 | | ug/L | | 98 | 49 - 147 |
| Acetone | 20.0 | 23.2 | | ug/L | | 116 | 10 - 150 |
| Benzene | 10.0 | 9.29 | | ug/L | | 93 | 80 - 121 |
| Bromoform | 10.0 | 9.19 | | ug/L | | 92 | 62 - 138 |
| Bromomethane | 10.0 | 9.62 | | ug/L | | 96 | 39 - 150 |
| Carbon disulfide | 10.0 | 8.33 | | ug/L | | 83 | 57 - 137 |
| Carbon tetrachloride | 10.0 | 8.78 | | ug/L | | 88 | 59 - 145 |
| Chlorobenzene | 10.0 | 10.2 | | ug/L | | 102 | 80 - 120 |
| Chlorodibromomethane | 10.0 | 9.33 | | ug/L | | 93 | 71 - 134 |
| Chloroform | 10.0 | 9.46 | | ug/L | | 95 | 78 - 122 |
| Chloromethane | 10.0 | 10.1 | | ug/L | | 101 | 51 - 150 |
| Chloroethane | 10.0 | 11.4 | | ug/L | | 114 | 53 - 148 |
| cis-1,2-Dichloroethene | 10.0 | 9.28 | | ug/L | | 93 | 80 - 120 |
| cis-1,3-Dichloropropene | 10.0 | 8.47 | | ug/L | | 85 | 67 - 127 |
| Cyclohexane | 10.0 | 9.06 | | ug/L | | 91 | 65 - 132 |
| Dichlorobromomethane | 10.0 | 8.94 | | ug/L | | 89 | 72 - 124 |
| Dichlorodifluoromethane | 10.0 | 11.8 | | ug/L | | 118 | 43 - 142 |
| Ethylbenzene | 10.0 | 10.1 | | ug/L | | 101 | 80 - 123 |
| 1,2-Dibromoethane | 10.0 | 10.1 | | ug/L | | 101 | 79 - 126 |
| Isopropylbenzene | 10.0 | 10.6 | | ug/L | | 106 | 80 - 124 |
| Methyl acetate | 50.0 | 52.7 | | ug/L | | 105 | 65 - 144 |
| Methyl tert-butyl ether | 10.0 | 9.21 | | ug/L | | 92 | 68 - 124 |
| Methylcyclohexane | 10.0 | 9.31 | | ug/L | | 93 | 74 - 120 |
| Methylene Chloride | 10.0 | 8.56 | | ug/L | | 86 | 71 - 129 |
| m-Xylene & p-Xylene | 10.0 | 10.2 | | ug/L | | 102 | 80 - 124 |
| o-Xylene | 10.0 | 10.3 | | ug/L | | 103 | 80 - 123 |
| Xyrene | 10.0 | 10.3 | | ug/L | | 103 | 80 - 125 |
| tetrachloroethene | 10.0 | 10.2 | | ug/L | | 102 | 80 - 122 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

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

Lab Sample ID: LCS 180-171343/11

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 171343

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Toluene | 10.0 | 9.81 | | ug/L | | 98 | 80 - 125 |
| trans-1,2-Dichloroethene | 10.0 | 8.63 | | ug/L | | 86 | 80 - 121 |
| trans-1,3-Dichloropropene | 10.0 | 9.75 | | ug/L | | 98 | 63 - 144 |
| Trichloroethene | 10.0 | 8.65 | | ug/L | | 86 | 79 - 120 |
| Trichlorofluoromethane | 10.0 | 10.1 | | ug/L | | 101 | 39 - 150 |
| Xylenes, Total | 20.0 | 20.5 | | ug/L | | 103 | 80 - 123 |
| Vinyl chloride | 10.0 | 10.2 | | ug/L | | 102 | 61 - 138 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 72 - 134 |
| 4-Bromofluorobenzene (Surr) | 98 | | 72 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 77 - 127 |
| Toluene-d8 (Surr) | 108 | | 80 - 120 |

Lab Sample ID: 180-52965-1 MS

Client Sample ID: MW-01:201603:W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 171343

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane | 2.0 | | 10.0 | 12.1 | | ug/L | | 101 | 68 - 128 |
| 1,1,2,2-Tetrachloroethane | ND | | 10.0 | 11.2 | | ug/L | | 112 | 78 - 135 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 10.0 | 11.1 | | ug/L | | 111 | 72 - 123 |
| 1,1,2-Trichloroethane | ND | | 10.0 | 10.7 | | ug/L | | 107 | 77 - 127 |
| 1,1-Dichloroethane | 0.98 | J | 10.0 | 10.6 | | ug/L | | 97 | 76 - 126 |
| 1,1-Dichloroethene | 0.73 | J | 10.0 | 10.6 | | ug/L | | 99 | 71 - 122 |
| 1,2,4-Trichlorobenzene | ND | | 10.0 | 9.47 | | ug/L | | 95 | 51 - 138 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10.0 | 9.75 | | ug/L | | 98 | 55 - 139 |
| 1,2-Dichlorobenzene | ND | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 |
| 1,2-Dichloroethane | ND | | 10.0 | 11.1 | | ug/L | | 111 | 72 - 126 |
| 1,2-Dichloropropane | ND | | 10.0 | 9.83 | | ug/L | | 98 | 78 - 123 |
| 1,3-Dichlorobenzene | 0.19 | J | 10.0 | 10.4 | | ug/L | | 102 | 80 - 120 |
| 1,4-Dichlorobenzene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 120 |
| 2-Butanone (MEK) | ND | ^c | 20.0 | 21.2 | | ug/L | | 106 | 41 - 150 |
| 2-Hexanone | ND | ^c | 20.0 | 18.4 | | ug/L | | 92 | 40 - 150 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20.0 | 20.6 | | ug/L | | 103 | 49 - 147 |
| Acetone | ND | ^c | 20.0 | 24.1 | | ug/L | | 121 | 10 - 150 |
| Benzene | ND | | 10.0 | 10.3 | | ug/L | | 103 | 80 - 121 |
| Bromoform | ND | | 10.0 | 9.68 | | ug/L | | 97 | 62 - 138 |
| Bromomethane | ND | | 10.0 | 11.3 | | ug/L | | 113 | 39 - 150 |
| Carbon disulfide | ND | | 10.0 | 9.39 | | ug/L | | 94 | 57 - 137 |
| Carbon tetrachloride | ND | | 10.0 | 10.4 | | ug/L | | 104 | 59 - 145 |
| Chlorobenzene | ND | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 120 |
| Chlorodibromomethane | ND | | 10.0 | 9.95 | | ug/L | | 99 | 71 - 134 |
| Chloroform | ND | | 10.0 | 10.6 | | ug/L | | 106 | 78 - 122 |
| Chloromethane | ND | | 10.0 | 9.09 | | ug/L | | 91 | 51 - 150 |
| Chloroethane | ND | | 10.0 | 10.7 | | ug/L | | 107 | 53 - 148 |
| cis-1,2-Dichloroethene | ND | | 10.0 | 10.0 | | ug/L | | 100 | 80 - 120 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

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

Lab Sample ID: 180-52965-1 MS

Client Sample ID: MW-01:201603:W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 171343

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. | Limits |
|---------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| cis-1,3-Dichloropropene | ND | | 10.0 | 9.35 | | ug/L | | 94 | 67 - 127 | |
| Cyclohexane | ND | | 10.0 | 10.0 | | ug/L | | 100 | 65 - 132 | |
| Dichlorobromomethane | ND | | 10.0 | 10.1 | | ug/L | | 101 | 72 - 124 | |
| Dichlorodifluoromethane | ND | | 10.0 | 8.62 | | ug/L | | 86 | 43 - 142 | |
| Ethylbenzene | ND | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 123 | |
| 1,2-Dibromoethane | ND | | 10.0 | 10.9 | | ug/L | | 109 | 79 - 126 | |
| Isopropylbenzene | ND | | 10.0 | 11.0 | | ug/L | | 110 | 80 - 124 | |
| Methyl acetate | 1.3 | | 50.0 | 57.5 | | ug/L | | 113 | 65 - 144 | |
| Methyl tert-butyl ether | ND | | 10.0 | 10.1 | | ug/L | | 101 | 68 - 124 | |
| Methylcyclohexane | ND | | 10.0 | 10.3 | | ug/L | | 103 | 74 - 120 | |
| Methylene Chloride | ND | | 10.0 | 9.94 | | ug/L | | 99 | 71 - 129 | |
| m-Xylene & p-Xylene | ND | | 10.0 | 10.8 | | ug/L | | 108 | 80 - 124 | |
| o-Xylene | ND | | 10.0 | 10.5 | | ug/L | | 105 | 80 - 123 | |
| Styrene | ND | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 125 | |
| Tetrachloroethene | ND | | 10.0 | 10.8 | | ug/L | | 108 | 80 - 122 | |
| Toluene | ND | | 10.0 | 10.9 | | ug/L | | 109 | 80 - 125 | |
| trans-1,2-Dichloroethene | ND | | 10.0 | 10.1 | | ug/L | | 101 | 80 - 121 | |
| trans-1,3-Dichloropropene | ND | | 10.0 | 10.1 | | ug/L | | 101 | 63 - 144 | |
| Trichloroethene | ND | | 10.0 | 10.1 | | ug/L | | 101 | 79 - 120 | |
| Trichlorofluoromethane | ND | | 10.0 | 9.68 | | ug/L | | 97 | 39 - 150 | |
| Xylenes, Total | ND | | 20.0 | 21.3 | | ug/L | | 107 | 80 - 123 | |
| Vinyl chloride | ND | | 10.0 | 9.09 | | ug/L | | 91 | 61 - 138 | |

| Surrogate | MS | MS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 72 - 134 |
| 4-Bromofluorobenzene (Surr) | 98 | | 72 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 77 - 127 |
| Toluene-d8 (Surr) | 109 | | 80 - 120 |

Lab Sample ID: 180-52965-1 MSD

Client Sample ID: MW-01:201603:W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 171343

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | Limits | RPD | RPD Limit |
|---------------------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | 2.0 | | 10.0 | 11.7 | | ug/L | | 97 | 68 - 128 | 4 | 35 | |
| 1,1,2,2-Tetrachloroethane | ND | | 10.0 | 10.5 | | ug/L | | 105 | 78 - 135 | 7 | 35 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 10.0 | 10.5 | | ug/L | | 105 | 72 - 123 | 5 | 35 | |
| 1,1,2-Trichloroethane | ND | | 10.0 | 10.1 | | ug/L | | 101 | 77 - 127 | 6 | 35 | |
| 1,1-Dichloroethane | 0.98 | J | 10.0 | 10.7 | | ug/L | | 97 | 76 - 126 | 0 | 35 | |
| 1,1-Dichloroethene | 0.73 | J | 10.0 | 10.3 | | ug/L | | 96 | 71 - 122 | 2 | 35 | |
| 1,2,4-Trichlorobenzene | ND | | 10.0 | 9.55 | | ug/L | | 95 | 51 - 138 | 1 | 35 | |
| 1,2-Dibromo-3-Chloropropane | ND | | 10.0 | 9.51 | | ug/L | | 95 | 55 - 139 | 3 | 35 | |
| 1,2-Dichlorobenzene | ND | | 10.0 | 9.96 | | ug/L | | 100 | 80 - 120 | 4 | 24 | |
| 1,2-Dichloroethane | ND | | 10.0 | 10.7 | | ug/L | | 107 | 72 - 126 | 3 | 32 | |
| 1,2-Dichloropropane | ND | | 10.0 | 9.75 | | ug/L | | 97 | 78 - 123 | 1 | 34 | |
| 1,3-Dichlorobenzene | 0.19 | J | 10.0 | 10.3 | | ug/L | | 101 | 80 - 120 | 1 | 24 | |
| 1,4-Dichlorobenzene | ND | | 10.0 | 10.0 | | ug/L | | 100 | 80 - 120 | 1 | 24 | |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

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

Lab Sample ID: 180-52965-1 MSD

Client Sample ID: MW-01:201603:W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 171343

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | RPD | Limit |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | Limits | | | |
| 2-Butanone (MEK) | ND | ^c | 20.0 | 21.2 | | ug/L | | 106 | 41 - 150 | 0 | 35 | |
| 2-Hexanone | ND | ^c | 20.0 | 18.0 | | ug/L | | 90 | 40 - 150 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20.0 | 19.6 | | ug/L | | 98 | 49 - 147 | 5 | 35 | |
| Acetone | ND | ^c | 20.0 | 24.0 | | ug/L | | 120 | 10 - 150 | 1 | 35 | |
| Benzene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 121 | 1 | 32 | |
| Bromoform | ND | | 10.0 | 9.18 | | ug/L | | 92 | 62 - 138 | 5 | 35 | |
| Bromomethane | ND | | 10.0 | 9.00 | | ug/L | | 90 | 39 - 150 | 23 | 35 | |
| Carbon disulfide | ND | | 10.0 | 9.03 | | ug/L | | 90 | 57 - 137 | 4 | 35 | |
| Carbon tetrachloride | ND | | 10.0 | 9.88 | | ug/L | | 99 | 59 - 145 | 6 | 35 | |
| Chlorobenzene | ND | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 | 3 | 29 | |
| Chlorodibromomethane | ND | | 10.0 | 9.64 | | ug/L | | 96 | 71 - 134 | 3 | 35 | |
| Chloroform | ND | | 10.0 | 10.3 | | ug/L | | 103 | 78 - 122 | 3 | 35 | |
| Chloromethane | ND | | 10.0 | 8.58 | | ug/L | | 86 | 51 - 150 | 6 | 35 | |
| Chloroethane | ND | | 10.0 | 9.81 | | ug/L | | 98 | 53 - 148 | 9 | 35 | |
| cis-1,2-Dichloroethene | ND | | 10.0 | 9.92 | | ug/L | | 99 | 80 - 120 | 1 | 35 | |
| cis-1,3-Dichloropropene | ND | | 10.0 | 9.16 | | ug/L | | 92 | 67 - 127 | 2 | 35 | |
| Cyclohexane | ND | | 10.0 | 10.0 | | ug/L | | 100 | 65 - 132 | 0 | 35 | |
| Dichlorobromomethane | ND | | 10.0 | 9.72 | | ug/L | | 97 | 72 - 124 | 4 | 35 | |
| Dichlorodifluoromethane | ND | | 10.0 | 8.44 | | ug/L | | 84 | 43 - 142 | 2 | 35 | |
| Ethylbenzene | ND | | 10.0 | 10.1 | | ug/L | | 101 | 80 - 123 | 4 | 33 | |
| 2-Dibromoethane | ND | | 10.0 | 10.4 | | ug/L | | 104 | 79 - 126 | 5 | 35 | |
| Isopropylbenzene | ND | | 10.0 | 10.7 | | ug/L | | 107 | 80 - 124 | 3 | 35 | |
| Methyl acetate | 1.3 | | 50.0 | 54.5 | | ug/L | | 107 | 65 - 144 | 5 | 35 | |
| Methyl tert-butyl ether | ND | | 10.0 | 10.1 | | ug/L | | 101 | 68 - 124 | 0 | 35 | |
| Methylcyclohexane | ND | | 10.0 | 10.3 | | ug/L | | 103 | 74 - 120 | 0 | 35 | |
| Methylene Chloride | ND | | 10.0 | 9.87 | | ug/L | | 99 | 71 - 129 | 1 | 35 | |
| m-Xylene & p-Xylene | ND | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 124 | 3 | 32 | |
| o-Xylene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 123 | 3 | 33 | |
| Styrene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 125 | 4 | 34 | |
| Tetrachloroethene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 122 | 5 | 35 | |
| Toluene | ND | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 125 | 3 | 35 | |
| trans-1,2-Dichloroethene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 121 | 1 | 35 | |
| trans-1,3-Dichloropropene | ND | | 10.0 | 9.73 | | ug/L | | 97 | 63 - 144 | 4 | 35 | |
| Trichloroethene | ND | | 10.0 | 10.2 | | ug/L | | 102 | 79 - 120 | 1 | 35 | |
| Trichlorofluoromethane | ND | | 10.0 | 9.48 | | ug/L | | 95 | 39 - 150 | 2 | 35 | |
| Xylenes, Total | ND | | 20.0 | 20.6 | | ug/L | | 103 | 80 - 123 | 3 | 32 | |
| Vinyl chloride | ND | | 10.0 | 8.61 | | ug/L | | 86 | 61 - 138 | 5 | 35 | |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 72 - 134 |
| 4-Bromofluorobenzene (Surr) | 99 | | 72 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 77 - 127 |
| Toluene-d8 (Surr) | 106 | | 80 - 120 |

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-170798/1-A
Matrix: Water
Analysis Batch: 170990

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 170798

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Silver | ND | | 5.0 | 0.69 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Barium | 0.200 | J | 200 | 0.14 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Cadmium | ND | | 5.0 | 0.28 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 03/15/16 07:58 | 03/16/16 09:40 | 1 |

Lab Sample ID: LCS 180-170798/2-A
Matrix: Water
Analysis Batch: 170990

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 170798

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|----------|-------------|------------|---------------|------|---|------|----------|--|
| | | | | | | | Limits | |
| Silver | 50.0 | 52.9 | | ug/L | | 106 | 80 - 120 | |
| Arsenic | 500 | 531 | | ug/L | | 106 | 80 - 120 | |
| Barium | 2000 | 2020 | | ug/L | | 101 | 80 - 120 | |
| Cadmium | 50.0 | 51.1 | | ug/L | | 102 | 80 - 120 | |
| Chromium | 200 | 200 | | ug/L | | 100 | 80 - 120 | |
| Lead | 500 | 503 | | ug/L | | 101 | 80 - 120 | |
| Selenium | 500 | 534 | | ug/L | | 107 | 80 - 120 | |

Lab Sample ID: 180-52965-A-5-B MS
Matrix: Water
Analysis Batch: 170990

Client Sample ID: 180-52965-A-5-B MS
Prep Type: Dissolved
Prep Batch: 170798

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. | |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|--|
| | | | | | | | | | Limits | |
| Silver | ND | | 50.0 | 54.4 | | ug/L | | 109 | 75 - 125 | |
| Arsenic | ND | | 500 | 553 | | ug/L | | 111 | 75 - 125 | |
| Barium | 130 | J | 2000 | 2150 | | ug/L | | 101 | 75 - 125 | |
| Cadmium | ND | | 50.0 | 52.0 | | ug/L | | 104 | 75 - 125 | |
| Chromium | ND | | 200 | 197 | | ug/L | | 99 | 75 - 125 | |
| Lead | ND | | 500 | 496 | | ug/L | | 99 | 75 - 125 | |
| Selenium | ND | | 500 | 543 | | ug/L | | 109 | 75 - 125 | |

Lab Sample ID: 180-52965-A-5-C MSD
Matrix: Water
Analysis Batch: 170990

Client Sample ID: 180-52965-A-5-C MSD
Prep Type: Dissolved
Prep Batch: 170798

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|---|-----|-------|
| | | | | | | | | | Limits | | | |
| Silver | ND | | 50.0 | 52.7 | | ug/L | | 105 | 75 - 125 | 4 | 20 | |
| Arsenic | ND | | 500 | 537 | | ug/L | | 107 | 75 - 125 | 4 | 20 | |
| Barium | 130 | J | 2000 | 2100 | | ug/L | | 99 | 75 - 125 | 3 | 20 | |
| Cadmium | ND | | 50.0 | 50.8 | | ug/L | | 102 | 75 - 125 | 3 | 20 | |
| Chromium | ND | | 200 | 190 | | ug/L | | 95 | 75 - 125 | 5 | 20 | |
| Lead | ND | | 500 | 487 | | ug/L | | 97 | 75 - 125 | 6 | 20 | |
| Selenium | ND | | 500 | 526 | | ug/L | | 105 | 75 - 125 | 6 | 20 | |

QC Sample Results

Client: American Geosciences, Inc.
 Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-170861/1-A
 Matrix: Water
 Analysis Batch: 171022

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 170861

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 03/15/16 12:07 | 03/16/16 12:10 | 1 |

Lab Sample ID: LCS 180-170861/2-A
 Matrix: Water
 Analysis Batch: 171022

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 170861

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | Limits |
|---------|-------------|---------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| Mercury | 2.50 | 2.51 | | ug/L | | 100 | 80 - 120 |

QC Association Summary

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

GC/MS VOA

Analysis Batch: 171343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 180-52965-1 | MW-01:201603:W | Total/NA | Water | 8260C | |
| 180-52965-1 MS | MW-01:201603:W | Total/NA | Water | 8260C | |
| 180-52965-1 MSD | MW-01:201603:W | Total/NA | Water | 8260C | |
| 180-52965-2 | MW-02:201603:W | Total/NA | Water | 8260C | |
| 180-52965-3 | MW-03:201603:W | Total/NA | Water | 8260C | |
| 180-52965-4 | MW-04:201603:W | Total/NA | Water | 8260C | |
| 180-52965-5 | FD-01:201603:W | Total/NA | Water | 8260C | |
| 180-52965-6 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 180-171343/11 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 180-171343/5 | Method Blank | Total/NA | Water | 8260C | |

Metals

Prep Batch: 170798

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------|-------------------|--------|--------|------------|
| 180-52965-1 | MW-01:201603:W | Dissolved | Water | 3005A | |
| 180-52965-2 | MW-02:201603:W | Dissolved | Water | 3005A | |
| 180-52965-3 | MW-03:201603:W | Dissolved | Water | 3005A | |
| 180-52965-4 | MW-04:201603:W | Dissolved | Water | 3005A | |
| 180-52965-5 | FD-01:201603:W | Dissolved | Water | 3005A | |
| 180-52965-A-5-B MS | 180-52965-A-5-B MS | Dissolved | Water | 3005A | |
| 180-52965-A-5-C MSD | 180-52965-A-5-C MSD | Dissolved | Water | 3005A | |
| LCS 180-170798/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 180-170798/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Prep Batch: 170861

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52965-1 | MW-01:201603:W | Dissolved | Water | 7470A | |
| 180-52965-2 | MW-02:201603:W | Dissolved | Water | 7470A | |
| 180-52965-3 | MW-03:201603:W | Dissolved | Water | 7470A | |
| 180-52965-4 | MW-04:201603:W | Dissolved | Water | 7470A | |
| 180-52965-5 | FD-01:201603:W | Dissolved | Water | 7470A | |
| LCS 180-170861/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-170861/1-A | Method Blank | Total/NA | Water | 7470A | |

Analysis Batch: 170990

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------|-------------------|--------|--------|------------|
| 180-52965-1 | MW-01:201603:W | Dissolved | Water | 6010C | 170798 |
| 180-52965-2 | MW-02:201603:W | Dissolved | Water | 6010C | 170798 |
| 180-52965-3 | MW-03:201603:W | Dissolved | Water | 6010C | 170798 |
| 180-52965-4 | MW-04:201603:W | Dissolved | Water | 6010C | 170798 |
| 180-52965-5 | FD-01:201603:W | Dissolved | Water | 6010C | 170798 |
| 180-52965-A-5-B MS | 180-52965-A-5-B MS | Dissolved | Water | 6010C | 170798 |
| 180-52965-A-5-C MSD | 180-52965-A-5-C MSD | Dissolved | Water | 6010C | 170798 |
| LCS 180-170798/2-A | Lab Control Sample | Total Recoverable | Water | 6010C | 170798 |
| MB 180-170798/1-A | Method Blank | Total Recoverable | Water | 6010C | 170798 |

Analysis Batch: 171022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 180-52965-1 | MW-01:201603:W | Dissolved | Water | 7470A | 170861 |

TestAmerica Pittsburgh

QC Association Summary

Client: American Geosciences, Inc.
Project/Site: 1810 Lincoln Highway

TestAmerica Job ID: 180-52965-1

Metals (Continued)

Analysis Batch: 171022 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-52965-2 | MW-02:201603:W | Dissolved | Water | 7470A | 170861 |
| 180-52965-3 | MW-03:201603:W | Dissolved | Water | 7470A | 170861 |
| 180-52965-4 | MW-04:201603:W | Dissolved | Water | 7470A | 170861 |
| 180-52965-5 | FD-01:201603:W | Dissolved | Water | 7470A | 170861 |
| LCS 180-170861/2-A | Lab Control Sample | Total/NA | Water | 7470A | 170861 |
| MB 180-170861/1-A | Method Blank | Total/NA | Water | 7470A | 170861 |

Pittsburgh, PA 15238
Phone: 412.963.7858 Fax: 412.963.2479

Regulatory Program: DW NPDES RCRA Other:

Company Name: AGI
Address: 3925 Reed Blvd
City/State/Zip: MURKINSVILLE PA 15600
Phone: 724-233-7000
Fax:
Project Name: 5106 - 1806 Lincoln Highway
Job / SDG No.:

Project Manager: DWP
Tel/Fax:
Site Contact:
Lab Contact:
Carrier:
Date:
COC No: of COCs

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Sample Specific Notes:
180-52965 Chain of Custody

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Cont, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Performs MS/MSD (Y/N) | Lab Contact | Site Contact |
|-----------------------|-------------|-------------|------------------------------|--------|------------|-----------------------|-----------------------|-------------|--------------|
| MW-01-201603-W | 3-11 | 9:55 | L | | 4 | | X | TEL VCS | |
| MW-02-201603-W | | 10:15 | L | | | | X | RECH METALS | |
| MW-03-201603-W | | 11:30 | L | | | | | | |
| MW-04-201603-W | | 10:45 | L | | | | | | |
| FD-01-201603-W | | NA | L | | 0 | | | | |
| STP Blank | | | | | | | | | |

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Company Name: AGI
Address:
City/State/Zip:
Phone:
Fax:
Project Name:
Job / SDG No.:

Received by: Ken Sundin Date/Time: 3-11-16 11:05 AM
 Received by: Ken Sundin Date/Time: 3-11-16 12:20
 Received by: Ken Sundin Date/Time: 3-11-16 12:20

Login Sample Receipt Checklist

Client: American Geosciences, Inc.

Job Number: 180-52965-1

Login Number: 52965
 List Number: 1
 Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| 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 | |
| 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 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. | True | |
| 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 | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

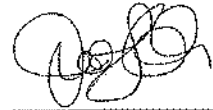
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-53670-1
Client Project/Site: 15106 - 1810 Lincoln Hwy

For:
American Geosciences, Inc.
3925 Reed Boulevard
Suite 400
Murrysville, Pennsylvania 15668-1848

Attn: Mr. Dave Perry



Authorized for release by:
4/13/2016 4:06:06 PM

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

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Case Narrative

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

Job ID: 180-53670-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-53670-1

Receipt

The samples were received on 4/8/2016 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

The continuing calibration verification (CCV) analyzed in batch 173291 was outside the method criteria for the following analyte(s): Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The relative percent difference between the laboratory control standard and the laboratory control duplicate was outside of the control limits for Acetone. The recoveries were within the control limits. All results were reported.

Metals

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

General Chemistry

Due to the matrix, the initial volumes used for the TDS analyses of the following samples deviated from the standard procedure: MW-01:201604:W (180-53670-1), MW-02:201604:W (180-53670-2), MW-03:201604:W (180-53670-3), MW-04:201604:W (180-53670-4), 180-53653-E-1 and (180-53653-E-1 DU). The reporting limits (RLs) have been adjusted proportionately.

Definitions/Glossary

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
 Project/Site: 15106 - 1810 Lincoln Hwy

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | RPD of the LCS and LCSD exceeds the control limits |
| ^c | CCV Recovery 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. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| 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. |
|----------------|---|
| " | 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| | Minimum Level (Dioxin) |
| | 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 |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

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4/13/2016

Certification Summary

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Laboratory: TestAmerica Pittsburgh
certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------|---------|------------|------------------|-----------------|
| Pennsylvania | NELAP | 3 | 02-00416 | 04-30-16 |

TestAmerica Pittsbu

4/13/2016

Sample Summary

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

| Sample ID | Client Sample ID | Matrix | Collected | Received |
|-------------|------------------|--------|----------------|----------------|
| 180-53670-1 | MW-01:201604:W | Water | 04/07/16 14:50 | 04/08/16 11:50 |
| 180-53670-2 | MW-02:201604:W | Water | 04/07/16 12:00 | 04/08/16 11:50 |
| 180-53670-3 | MW-03:201604:W | Water | 04/07/16 13:00 | 04/08/16 11:50 |
| 180-53670-4 | MW-04:201604:W | Water | 04/07/16 14:00 | 04/08/16 11:50 |

TestAmerica Pittsburgh

4/13/2016

Method Summary

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

| Method | Method Description | Protocol | Laboratory |
|----------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 6010C | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL PIT |

Protocol References:

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 PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TestAmerica Pittsburgh

4/13/2016

Lab Chronicle

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Lab Sample ID: 180-53670-1
Matrix: Water

Client Sample ID: MW-01:201604:W
Date Collected: 04/07/16 14:50
Date Received: 04/08/16 11:50

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 173291 | 04/12/16 17:48 | PJJ | TAL PIT |
| | Instrument ID: CHHP4 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 173164 | 04/11/16 07:57 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | | | 173389 | 04/12/16 14:21 | RJR | TAL PIT |
| | Instrument ID: Q | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 173155 | 04/11/16 07:25 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | | | 173229 | 04/11/16 11:41 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 50 mL | 100 mL | 173338 | 04/12/16 11:49 | JWS | TAL PIT |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Lab Sample ID: 180-53670-2
Matrix: Water

Client Sample ID: MW-02:201604:W
Date Collected: 04/07/16 12:00
Date Received: 04/08/16 11:50

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 173291 | 04/12/16 18:16 | PJJ | TAL PIT |
| | Instrument ID: CHHP4 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 173164 | 04/11/16 07:57 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | | | 173389 | 04/12/16 14:27 | RJR | TAL PIT |
| | Instrument ID: Q | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 173155 | 04/11/16 07:25 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | | | 173229 | 04/11/16 11:43 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 100 mL | 173338 | 04/12/16 11:49 | JWS | TAL PIT |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Lab Sample ID: 180-53670-3
Matrix: Water

Client Sample ID: MW-03:201604:W
Date Collected: 04/07/16 13:00
Date Received: 04/08/16 11:50

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 173291 | 04/12/16 18:44 | PJJ | TAL PIT |
| | Instrument ID: CHHP4 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 173164 | 04/11/16 07:57 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | | | 173389 | 04/12/16 14:33 | RJR | TAL PIT |
| | Instrument ID: Q | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 173155 | 04/11/16 07:25 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | | | 173229 | 04/11/16 11:44 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 100 mL | 173338 | 04/12/16 11:49 | JWS | TAL PIT |
| | Instrument ID: NOEQUIP | | | | | | | | | |

TestAmerica Pittsburgh

4/13/2016

Lab Chronicle

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Lab Sample ID: 180-53670-4
Matrix: Water

Client Sample ID: MW-04:201604:W

Sample Collected: 04/07/16 14:00
Date Received: 04/08/16 11:50

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 173291 | 04/12/16 19:11 | PJJ | TAL PIT |
| | Instrument ID: CHHP4 | | | | | | | | | |
| Dissolved | Prep | 3005A | | 1 | 50 mL | 50 mL | 173164 | 04/11/16 07:57 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | | 50 mL | 50 mL | 173389 | 04/12/16 14:48 | RJR | TAL PIT |
| | Instrument ID: Q | | | | | | | | | |
| Dissolved | Prep | 7470A | | 1 | 50 mL | 50 mL | 173155 | 04/11/16 07:25 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | | 50 mL | 50 mL | 173229 | 04/11/16 11:50 | EVR | TAL PIT |
| | Instrument ID: K | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 50 mL | 100 mL | 173338 | 04/12/16 11:49 | JWS | TAL PIT |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

- Lab: TAL PIT
- Batch Type: Prep
 - ANA = Alexis Anderson
 - EVR = Emilie Reichenbach
- Batch Type: Analysis
 - EVR = Emilie Reichenbach
 - JWS = Jim Swanson
 - PJJ = Patrick Journet
 - RJR = Ron Rosenbaum

Client Sample Results

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Client Sample ID: MW-01:201604:W

Lab Sample ID: 180-53670-1

Matrix: Water

Sample Collected: 04/07/16 14:50
Date Received: 04/08/16 11:50

| Method: 8260C - Volatile Organic Compounds by GC/MS | | | | | | | | | |
|---|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | 5.1 | | 5.0 | 0.65 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,1-Dichloroethane | 12 | | 5.0 | 0.84 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,1-Dichloroethene | 6.9 | | 5.0 | 1.1 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 17:48 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 17:48 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 17:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 2.0 | ug/L | | | 04/12/16 17:48 | 1 |
| Acetone | ND | | 5.0 | 5.0 | ug/L | | | 04/12/16 17:48 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 04/12/16 17:48 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 04/12/16 17:48 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 17:48 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 04/12/16 17:48 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 04/12/16 17:48 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 17:48 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 04/12/16 17:48 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 04/12/16 17:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 17:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 04/12/16 17:48 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 04/12/16 17:48 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 17:48 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 17:48 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 17:48 | 1 |
| Isopropylbenzene | ND | | 25 | 0.84 | ug/L | | | 04/12/16 17:48 | 1 |
| Methyl acetate | ND | | 5.0 | 7.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 04/12/16 17:48 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 04/12/16 17:48 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 17:48 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 04/12/16 17:48 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 04/12/16 17:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 17:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 04/12/16 17:48 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 04/12/16 17:48 | 1 |
| Trichlorofluoromethane | ND | ^c | 5.0 | 1.2 | ug/L | | | 04/12/16 17:48 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 17:48 | 1 |
| Arenes, Total | ND | | 10 | 1.4 | ug/L | | | 04/12/16 17:48 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Client Sample ID: MW-01:201604:W

Lab Sample ID: 180-53670-1

Matrix: Water

Date Collected: 04/07/16 14:50

Date Received: 04/08/16 11:50

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 123 | | 04/12/16 17:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 120 | | 04/12/16 17:48 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 80 - 120 | | 04/12/16 17:48 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | 04/12/16 17:48 | 1 |

| Method: 6010C - Metals (ICP) - Dissolved | | | | | | | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | | | |
| Silver | ND | | 5.0 | 0.69 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Barium | 92 | J | 200 | 0.14 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |
| Selenium | 2.8 | J | 10 | 2.5 | ug/L | | 04/11/16 07:57 | 04/12/16 14:21 | 1 |

| Method: 7470A - Mercury (CVAA) - Dissolved | | | | | | | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | | | |
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 04/11/16 07:25 | 04/11/16 11:41 | 1 |

| General Chemistry | | | | | | | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | | | |
| Total Dissolved Solids | 2200 | | 20 | 20 | mg/L | | | 04/12/16 11:49 | 1 |

Client Sample ID: MW-02:201604:W

Lab Sample ID: 180-53670-2

Matrix: Water

Date Collected: 04/07/16 12:00

Date Received: 04/08/16 11:50

| Method: 8260C - Volatile Organic Compounds by GC/MS | | | | | | | | | |
|---|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | 3.4 | J | 5.0 | 0.65 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 18:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.0 | ug/L | | | 04/12/16 18:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 04/12/16 18:16 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 04/12/16 18:16 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 04/12/16 18:16 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 04/12/16 18:16 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 04/12/16 18:16 | 1 |

TestAmerica Pittsburgh

Client Sample Results

TestAmerica Job ID: 180-53670-1

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

Client Sample ID: MW-02:201604:W

Lab Sample ID: 180-53670-2

Matrix: Water

Sample Collected: 04/07/16 12:00

Sample Received: 04/08/16 11:50

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 04/12/16 18:16 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:16 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 04/12/16 18:16 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 04/12/16 18:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 18:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 04/12/16 18:16 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 04/12/16 18:16 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:16 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 18:16 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 18:16 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 04/12/16 18:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 04/12/16 18:16 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 04/12/16 18:16 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 04/12/16 18:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 04/12/16 18:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 04/12/16 18:16 | 1 |
| Trichlorofluoromethane | ND | Ac | 5.0 | 1.2 | ug/L | | | 04/12/16 18:16 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:16 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 04/12/16 18:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|--------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62-123 | | 04/12/16 18:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 75-120 | | 04/12/16 18:16 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 80-120 | | 04/12/16 18:16 | 1 |
| Toluene-d8 (Surr) | 102 | | 80-120 | | 04/12/16 18:16 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Barium | 160 | J | 200 | 0.14 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Cadmium | 0.43 | J | 5.0 | 0.26 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |
| Selenium | 3.8 | J | 10 | 2.5 | ug/L | | 04/11/16 07:57 | 04/12/16 14:27 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 04/11/16 07:25 | 04/11/16 11:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 3500 | | 40 | 40 | mg/L | | | 04/12/16 11:49 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

Client Sample ID: MW-03:201604:W

Lab Sample ID: 180-53670-3

Sample Collected: 04/07/16 13:00

Matrix: Water

Sample Received: 04/08/16 11:50

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 36 | | 5.0 | 0.65 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,1-Dichloroethane | 8.4 | | 5.0 | 0.84 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,1-Dichloroethene | 7.6 | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:44 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 18:44 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 18:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 04/12/16 18:44 | 1 |
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 04/12/16 18:44 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 04/12/16 18:44 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 04/12/16 18:44 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:44 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 04/12/16 18:44 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 04/12/16 18:44 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:44 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 04/12/16 18:44 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 04/12/16 18:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 18:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 04/12/16 18:44 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 04/12/16 18:44 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 18:44 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:44 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 18:44 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 18:44 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 04/12/16 18:44 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 04/12/16 18:44 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:44 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 04/12/16 18:44 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 04/12/16 18:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 18:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 04/12/16 18:44 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 04/12/16 18:44 | 1 |
| Trichlorofluoromethane | ND | ^c | 5.0 | 1.2 | ug/L | | | 04/12/16 18:44 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 18:44 | 1 |
| Alkenes, Total | ND | | 10 | 1.4 | ug/L | | | 04/12/16 18:44 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

Client Sample ID: MW-03:201604:W

Lab Sample ID: 180-53670-3

Date Collected: 04/07/16 13:00

Matrix: Water

Date Received: 04/08/16 11:50

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 62 - 123 | | 04/12/16 18:44 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 75 - 120 | | 04/12/16 18:44 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 80 - 120 | | 04/12/16 18:44 | 1 |
| Toluene-d8 (Surr) | 109 | | 80 - 120 | | 04/12/16 18:44 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.89 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Barium | 120 | J | 200 | 0.14 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Cadmium | 15 | | 5.0 | 0.26 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Chromium | 5.0 | | 5.0 | 0.97 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 04/11/16 07:57 | 04/12/16 14:33 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 04/11/16 07:25 | 04/11/16 11:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 3500 | | 40 | 40 | mg/L | | | 04/12/16 11:49 | 1 |

Client Sample ID: MW-04:201604:W

Lab Sample ID: 180-53670-4

Date Collected: 04/07/16 14:00

Matrix: Water

Date Received: 04/08/16 11:50

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.65 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 19:11 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 19:11 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 19:11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 04/12/16 19:11 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 04/12/16 19:11 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 04/12/16 19:11 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 04/12/16 19:11 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 19:11 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 04/12/16 19:11 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

Client Sample ID: MW-04:201604:W

Lab Sample ID: 180-53670-4

Sample Collected: 04/07/16 14:00

Matrix: Water

Sample Received: 04/08/16 11:50

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 04/12/16 19:11 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 19:11 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 04/12/16 19:11 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 04/12/16 19:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 19:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 04/12/16 19:11 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 04/12/16 19:11 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 19:11 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 19:11 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 19:11 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 19:11 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 04/12/16 19:11 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 04/12/16 19:11 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 19:11 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 04/12/16 19:11 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 04/12/16 19:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 19:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 04/12/16 19:11 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 04/12/16 19:11 | 1 |
| Trichlorofluoromethane | ND | Ac | 5.0 | 1.2 | ug/L | | | 04/12/16 19:11 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 19:11 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 04/12/16 19:11 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 123 | | 04/12/16 19:11 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 | | 04/12/16 19:11 | 1 |
| Dibromofluoromethane (Surr) | 91 | | 80 - 120 | | 04/12/16 19:11 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 04/12/16 19:11 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Barium | 50 | J | 200 | 0.14 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Chromium | ND | | 5.0 | 0.97 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 04/11/16 07:57 | 04/12/16 14:48 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 04/11/16 07:25 | 04/11/16 11:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1900 | | 20 | 20 | mg/L | | | 04/12/16 11:49 | 1 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

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

Lab Sample ID: MB 180-173291/7
Matrix: Water
Analysis Batch: 173291

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.65 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 11:56 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 11:56 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 04/12/16 11:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 04/12/16 11:56 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 04/12/16 11:56 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 04/12/16 11:56 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 04/12/16 11:56 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 11:56 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 11:56 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 04/12/16 11:56 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 04/12/16 11:56 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 11:56 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 04/12/16 11:56 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 11:56 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 04/12/16 11:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 04/12/16 11:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 04/12/16 11:56 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 04/12/16 11:56 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 04/12/16 11:56 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 11:56 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 11:56 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 04/12/16 11:56 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/12/16 11:56 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 04/12/16 11:56 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 11:56 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 04/12/16 11:56 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 04/12/16 11:56 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 11:56 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 04/12/16 11:56 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 04/12/16 11:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 04/12/16 11:56 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 04/12/16 11:56 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 04/12/16 11:56 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 04/12/16 11:56 | 1 |
| vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 04/12/16 11:56 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 04/12/16 11:56 | 1 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15105 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|----|----|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | | | 92 | | 62 - 123 | | 04/12/16 11:56 | 1 |
| 4-Bromofluorobenzene (Surr) | | | 98 | | 75 - 120 | | 04/12/16 11:56 | 1 |
| Dibromofluoromethane (Surr) | | | 90 | | 80 - 120 | | 04/12/16 11:56 | 1 |
| Toluene-d8 (Surr) | | | 105 | | 80 - 120 | | 04/12/16 11:56 | 1 |

Lab Sample ID: LCS 180-173291/3
Matrix: Water
Analysis Batch: 173291

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-Trichloroethane | 40.0 | 37.6 | | ug/L | | 94 | 69 - 134 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 43.7 | | ug/L | | 109 | 59 - 136 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 36.0 | | ug/L | | 90 | 70 - 131 |
| 1,1,2-Trichloroethane | 40.0 | 40.9 | | ug/L | | 102 | 75 - 126 |
| 1,1-Dichloroethane | 40.0 | 40.8 | | ug/L | | 102 | 77 - 122 |
| 1,1-Dichloroethene | 40.0 | 36.8 | | ug/L | | 92 | 69 - 127 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 37.8 | | ug/L | | 94 | 28 - 150 |
| 1,2-Dichlorobenzene | 40.0 | 41.1 | | ug/L | | 103 | 75 - 125 |
| 1,2-Dichloroethane | 40.0 | 37.5 | | ug/L | | 94 | 63 - 140 |
| 1,2-Dichloropropane | 40.0 | 43.8 | | ug/L | | 110 | 75 - 114 |
| 1,2,4-Trichlorobenzene | 40.0 | 41.1 | | ug/L | | 103 | 35 - 150 |
| 1,3-Dichlorobenzene | 40.0 | 40.7 | | ug/L | | 102 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 42.2 | | ug/L | | 105 | 76 - 123 |
| 2-Butanone (MEK) | 40.0 | 51.5 | | ug/L | | 129 | 31 - 139 |
| 2-Hexanone | 40.0 | 48.1 | | ug/L | | 120 | 35 - 129 |
| Methyl-2-pentanone (MIBK) | 40.0 | 37.3 | | ug/L | | 93 | 33 - 135 |
| Acetone | 40.0 | 39.2 | | ug/L | | 98 | 10 - 141 |
| Benzene | 40.0 | 38.0 | | ug/L | | 95 | 80 - 120 |
| Bromoform | 40.0 | 33.7 | | ug/L | | 84 | 49 - 137 |
| Bromomethane | 40.0 | 36.2 | | ug/L | | 90 | 45 - 150 |
| Carbon disulfide | 40.0 | 36.2 | | ug/L | | 91 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 36.0 | | ug/L | | 90 | 63 - 139 |
| Chlorobenzene | 40.0 | 40.2 | | ug/L | | 100 | 83 - 120 |
| Chlorodibromomethane | 40.0 | 38.2 | | ug/L | | 96 | 64 - 124 |
| Chloroform | 40.0 | 40.0 | | ug/L | | 100 | 77 - 119 |
| Chloromethane | 40.0 | 35.1 | | ug/L | | 88 | 49 - 139 |
| Chloroethane | 40.0 | 34.6 | | ug/L | | 87 | 33 - 150 |
| cis-1,2-Dichloroethene | 40.0 | 37.1 | | ug/L | | 93 | 82 - 116 |
| cis-1,3-Dichloropropene | 40.0 | 42.6 | | ug/L | | 106 | 74 - 123 |
| Dichlorobromomethane | 40.0 | 40.2 | | ug/L | | 101 | 71 - 119 |
| Dichlorodifluoromethane | 40.0 | 31.3 | | ug/L | | 78 | 28 - 140 |
| Ethylbenzene | 40.0 | 40.8 | | ug/L | | 102 | 79 - 124 |
| 1,2-Dibromoethane | 40.0 | 39.9 | | ug/L | | 100 | 57 - 124 |
| Cyclohexane | 40.0 | 39.0 | | ug/L | | 97 | 69 - 124 |
| Isopropylbenzene | 40.0 | 39.0 | | ug/L | | 98 | 73 - 130 |
| Methyl acetate | 200 | 203 | | ug/L | | 101 | 34 - 127 |
| Methyl tert-butyl ether | 40.0 | 37.9 | | ug/L | | 95 | 53 - 122 |
| Methylcyclohexane | 40.0 | 38.6 | | ug/L | | 97 | 67 - 120 |
| Methylene Chloride | 40.0 | 34.7 | | ug/L | | 87 | 75 - 120 |
| m-Xylene & p-Xylene | 40.0 | 40.6 | | ug/L | | 101 | 78 - 124 |
| n-Xylene | 40.0 | 39.7 | | ug/L | | 99 | 78 - 124 |
| Xylene | 40.0 | 41.6 | | ug/L | | 104 | 78 - 124 |
| Tetrachloroethene | 40.0 | 39.5 | | ug/L | | 99 | 78 - 126 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

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

Lab Sample ID: LCS 180-173291/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 173291

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Toluene | 40.0 | 39.7 | | ug/L | | 99 | 80 - 124 |
| trans-1,2-Dichloroethene | 40.0 | 38.1 | | ug/L | | 95 | 78 - 120 |
| trans-1,3-Dichloropropene | 40.0 | 43.8 | | ug/L | | 110 | 63 - 122 |
| Trichloroethene | 40.0 | 36.2 | | ug/L | | 90 | 80 - 120 |
| Trichlorofluoromethane | 40.0 | 47.2 | | ug/L | | 118 | 14 - 150 |
| Vinyl chloride | 40.0 | 38.0 | | ug/L | | 95 | 57 - 128 |
| Xylenes, Total | 80.0 | 80.3 | | ug/L | | 100 | 81 - 121 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 123 |
| 4-Bromofluorobenzene (Surr) | 104 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 92 | | 80 - 120 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 |

Lab Sample ID: LCSD 180-173291/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 173291

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane | 40.0 | 36.5 | | ug/L | | 91 | 69 - 134 | 3 | 24 |
| 1,2,2-Tetrachloroethane | 40.0 | 45.6 | | ug/L | | 114 | 59 - 136 | 4 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 33.3 | | ug/L | | 83 | 70 - 131 | 8 | 30 |
| 1,1,2-Trichloroethane | 40.0 | 43.8 | | ug/L | | 110 | 75 - 126 | 7 | 23 |
| 1,1-Dichloroethane | 40.0 | 40.3 | | ug/L | | 101 | 77 - 122 | 1 | 22 |
| 1,1-Dichloroethene | 40.0 | 34.6 | | ug/L | | 86 | 69 - 127 | 6 | 20 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 42.0 | | ug/L | | 105 | 28 - 150 | 11 | 20 |
| 1,2-Dichlorobenzene | 40.0 | 41.8 | | ug/L | | 105 | 75 - 125 | 2 | 20 |
| 1,2-Dichloroethane | 40.0 | 39.2 | | ug/L | | 98 | 63 - 140 | 5 | 25 |
| 1,2-Dichloropropane | 40.0 | 45.4 | | ug/L | | 114 | 75 - 114 | 4 | 20 |
| 1,2,4-Trichlorobenzene | 40.0 | 41.3 | | ug/L | | 103 | 35 - 150 | 0 | 30 |
| 1,3-Dichlorobenzene | 40.0 | 40.7 | | ug/L | | 102 | 76 - 125 | 0 | 21 |
| 1,4-Dichlorobenzene | 40.0 | 42.5 | | ug/L | | 106 | 76 - 123 | 1 | 20 |
| 2-Butanone (MEK) | 40.0 | 47.1 | | ug/L | | 118 | 31 - 139 | 9 | 35 |
| 2-Hexanone | 40.0 | 44.5 | | ug/L | | 111 | 35 - 129 | 8 | 24 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 40.1 | | ug/L | | 100 | 33 - 135 | 7 | 29 |
| Acetone | 40.0 | 27.8 | | ug/L | | 70 | 10 - 141 | 34 | 32 |
| Benzene | 40.0 | 38.4 | | ug/L | | 96 | 80 - 120 | 1 | 20 |
| Bromoform | 40.0 | 37.2 | | ug/L | | 93 | 49 - 137 | 10 | 20 |
| Bromomethane | 40.0 | 35.4 | | ug/L | | 88 | 45 - 150 | 2 | 23 |
| Carbon disulfide | 40.0 | 33.9 | | ug/L | | 85 | 62 - 126 | 7 | 20 |
| Carbon tetrachloride | 40.0 | 34.8 | | ug/L | | 87 | 63 - 139 | 3 | 25 |
| Chlorobenzene | 40.0 | 40.3 | | ug/L | | 101 | 83 - 120 | 0 | 20 |
| Chlorodibromomethane | 40.0 | 39.6 | | ug/L | | 99 | 64 - 124 | 4 | 20 |
| Chloroform | 40.0 | 39.9 | | ug/L | | 100 | 77 - 119 | 0 | 20 |
| Chloromethane | 40.0 | 31.8 | | ug/L | | 80 | 49 - 133 | 10 | 20 |
| Chloroethane | 40.0 | 36.1 | | ug/L | | 90 | 33 - 150 | 4 | 24 |
| trans-1,2-Dichloroethene | 40.0 | 36.7 | | ug/L | | 92 | 82 - 116 | 1 | 20 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

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

Lab Sample ID: LCSD 180-173291/4
Matrix: Water
Analysis Batch: 173291

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| cis-1,3-Dichloropropene | 40.0 | 43.5 | | ug/L | | 109 | 74 - 123 | 2 | 20 |
| Dichlorobromomethane | 40.0 | 41.2 | | ug/L | | 103 | 71 - 119 | 2 | 20 |
| Dichlorodifluoromethane | 40.0 | 28.7 | | ug/L | | 72 | 28 - 140 | 9 | 20 |
| Ethylbenzene | 40.0 | 41.3 | | ug/L | | 103 | 79 - 124 | 1 | 25 |
| 1,2-Dibromoethane | 40.0 | 42.7 | | ug/L | | 107 | 57 - 124 | 7 | 20 |
| Cyclohexane | 40.0 | 37.0 | | ug/L | | 92 | 69 - 124 | 5 | 20 |
| Isopropylbenzene | 40.0 | 39.0 | | ug/L | | 97 | 73 - 130 | 0 | 20 |
| Methyl acetate | 200 | 209 | | ug/L | | 104 | 34 - 127 | 3 | 29 |
| Methyl tert-butyl ether | 40.0 | 38.2 | | ug/L | | 95 | 53 - 122 | 1 | 20 |
| Methylcyclohexane | 40.0 | 37.5 | | ug/L | | 94 | 67 - 120 | 3 | 20 |
| Methylene Chloride | 40.0 | 32.4 | | ug/L | | 81 | 75 - 120 | 7 | 20 |
| m-Xylene & p-Xylene | 40.0 | 40.5 | | ug/L | | 101 | 78 - 124 | 0 | 24 |
| o-Xylene | 40.0 | 39.5 | | ug/L | | 99 | 78 - 124 | 1 | 22 |
| Styrene | 40.0 | 42.3 | | ug/L | | 106 | 78 - 124 | 2 | 22 |
| Tetrachloroethene | 40.0 | 39.9 | | ug/L | | 100 | 78 - 126 | 1 | 25 |
| Toluene | 40.0 | 40.4 | | ug/L | | 101 | 80 - 124 | 2 | 20 |
| trans-1,2-Dichloroethene | 40.0 | 36.6 | | ug/L | | 92 | 78 - 120 | 4 | 20 |
| trans-1,3-Dichloropropene | 40.0 | 45.4 | | ug/L | | 114 | 63 - 122 | 4 | 20 |
| Trichloroethene | 40.0 | 35.9 | | ug/L | | 90 | 80 - 120 | 1 | 20 |
| Trichlorofluoromethane | 40.0 | 48.6 | | ug/L | | 121 | 14 - 150 | 3 | 20 |
| vinyl chloride | 40.0 | 33.4 | | ug/L | | 83 | 57 - 128 | 13 | 26 |
| Xylenes, Total | 80.0 | 80.0 | | ug/L | | 100 | 81 - 121 | 0 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 123 |
| 4-Bromofluorobenzene (Surr) | 104 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 94 | | 80 - 120 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-173164/1-A
Matrix: Water
Analysis Batch: 173389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 173164

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 0.69 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Arsenic | ND | | 10 | 3.7 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Barium | 0.390 | J | 200 | 0.14 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Cadmium | ND | | 5.0 | 0.26 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Chromium | 1.44 | J | 5.0 | 0.97 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Lead | ND | | 10 | 2.1 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |
| Selenium | ND | | 10 | 2.5 | ug/L | | 04/11/16 07:57 | 04/12/16 13:44 | 1 |

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

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

| Lab Sample ID: LCS 180-173164/2-A Matrix: Water Analysis Batch: 173389 | | | Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 173164 | | | | | |
|--|-------------|------------|--|------|---|------|----------|--|
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
| Silver | 50.0 | 51.7 | | ug/L | | 103 | 80 - 120 | |
| Arsenic | 500 | 510 | | ug/L | | 102 | 80 - 120 | |
| Barium | 2000 | 1940 | | ug/L | | 97 | 80 - 120 | |
| Cadmium | 50.0 | 49.1 | | ug/L | | 98 | 80 - 120 | |
| Chromium | 200 | 197 | | ug/L | | 98 | 80 - 120 | |
| Lead | 500 | 493 | | ug/L | | 99 | 80 - 120 | |
| Selenium | 500 | 520 | | ug/L | | 104 | 80 - 120 | |

Method: 7470A - Mercury (CVAA)

| Lab Sample ID: MB 180-173155/1-A Matrix: Water Analysis Batch: 173229 | | | Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 173155 | | | | | | |
|---|-----------|--------------|---|-------|------|---|----------------|----------------|---------|
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 04/11/16 07:25 | 04/11/16 11:22 | 1 |

| Lab Sample ID: LCS 180-173155/2-A Matrix: Water Analysis Batch: 173229 | | | Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 173155 | | | | | |
|--|-------------|------------|---|------|---|------|----------|--|
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
| Mercury | 2.50 | 2.51 | | ug/L | | 100 | 80 - 120 | |

| Lab Sample ID: 180-53670-4 MS Matrix: Water Analysis Batch: 173229 | | | Client Sample ID: MW-04:201604:W Prep Type: Dissolved Prep Batch: 173155 | | | | | | |
|--|---------------|------------------|--|-----------|--------------|------|---|------|----------|
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
| Mercury | ND | | 1.00 | 0.967 | | ug/L | | 97 | 75 - 125 |

| Lab Sample ID: 180-53670-4 MSD Matrix: Water Analysis Batch: 173229 | | | Client Sample ID: MW-04:201604:W Prep Type: Dissolved Prep Batch: 173155 | | | | | | | | |
|---|---------------|------------------|--|------------|---------------|------|---|------|----------|-----|-------|
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Mercury | ND | | 1.00 | 0.890 | | ug/L | | 89 | 75 - 125 | 8 | 20 |

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

| Lab Sample ID: MB 180-173338/2 Matrix: Water Analysis Batch: 173338 | | | Client Sample ID: Method Blank Prep Type: Total/NA | | | | | | |
|---|-----------|--------------|---|-----|------|---|----------|----------------|---------|
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Dissolved Solids | ND | | 10 | 10 | mg/L | | | 04/12/16 11:49 | 1 |

TestAmerica Pittsburgh

QC Sample Results

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

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

Lab Sample ID: LCS 180-173338/1
Matrix: Water
Analysis Batch: 173338

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 596 | 604 | | mg/L | | 101 | 80 - 120 |

QC Association Summary

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

GC/MS VOA

Analysis Batch: 173291

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 180-53670-1 | MW-01:201604:W | Total/NA | Water | 8260C | |
| 180-53670-2 | MW-02:201604:W | Total/NA | Water | 8260C | |
| 180-53670-3 | MW-03:201604:W | Total/NA | Water | 8260C | |
| 180-53670-4 | MW-04:201604:W | Total/NA | Water | 8260C | |
| LCS 180-173291/3 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCS 180-173291/4 | Lab Control Sample Dup | Total/NA | Water | 8260C | |
| MB 180-173291/7 | Method Blank | Total/NA | Water | 8260C | |

Metals

Prep Batch: 173155

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-53670-1 | MW-01:201604:W | Dissolved | Water | 7470A | |
| 180-53670-2 | MW-02:201604:W | Dissolved | Water | 7470A | |
| 180-53670-3 | MW-03:201604:W | Dissolved | Water | 7470A | |
| 180-53670-4 | MW-04:201604:W | Dissolved | Water | 7470A | |
| 180-53670-4 MS | MW-04:201604:W | Dissolved | Water | 7470A | |
| 180-53670-4 MSD | MW-04:201604:W | Dissolved | Water | 7470A | |
| LCS 180-173155/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-173155/1-A | Method Blank | Total/NA | Water | 7470A | |

Prep Batch: 173164

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-53670-1 | MW-01:201604:W | Dissolved | Water | 3005A | |
| 180-53670-2 | MW-02:201604:W | Dissolved | Water | 3005A | |
| 180-53670-3 | MW-03:201604:W | Dissolved | Water | 3005A | |
| 180-53670-4 | MW-04:201604:W | Dissolved | Water | 3005A | |
| LCS 180-173164/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 180-173164/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Analysis Batch: 173229

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-53670-1 | MW-01:201604:W | Dissolved | Water | 7470A | 173155 |
| 180-53670-2 | MW-02:201604:W | Dissolved | Water | 7470A | 173155 |
| 180-53670-3 | MW-03:201604:W | Dissolved | Water | 7470A | 173155 |
| 180-53670-4 | MW-04:201604:W | Dissolved | Water | 7470A | 173155 |
| 180-53670-4 MS | MW-04:201604:W | Dissolved | Water | 7470A | 173155 |
| 180-53670-4 MSD | MW-04:201604:W | Dissolved | Water | 7470A | 173155 |
| LCS 180-173155/2-A | Lab Control Sample | Total/NA | Water | 7470A | 173155 |
| MB 180-173155/1-A | Method Blank | Total/NA | Water | 7470A | 173155 |

Analysis Batch: 173389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-53670-1 | MW-01:201604:W | Dissolved | Water | 6010C | 173164 |
| 180-53670-2 | MW-02:201604:W | Dissolved | Water | 6010C | 173164 |
| 180-53670-3 | MW-03:201604:W | Dissolved | Water | 6010C | 173164 |
| 180-53670-4 | MW-04:201604:W | Dissolved | Water | 6010C | 173164 |
| LCS 180-173164/2-A | Lab Control Sample | Total Recoverable | Water | 6010C | 173164 |
| MB 180-173164/1-A | Method Blank | Total Recoverable | Water | 6010C | 173164 |

QC Association Summary

Client: American Geosciences, Inc.
Project/Site: 15106 - 1810 Lincoln Hwy

TestAmerica Job ID: 180-53670-1

General Chemistry

Analysis Batch: 173338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-53670-1 | MW-01:201604:W | Total/NA | Water | SM 2540C | |
| 180-53670-2 | MW-02:201604:W | Total/NA | Water | SM 2540C | |
| 180-53670-3 | MW-03:201604:W | Total/NA | Water | SM 2540C | |
| 180-53670-4 | MW-04:201604:W | Total/NA | Water | SM 2540C | |
| LCS 180-173338/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| MB 180-173338/2 | Method Blank | Total/NA | Water | SM 2540C | |

Regulatory Program: DW NPDES RCRA Other

Project Manager: DWP

Client Contact: AGI Tel/Fax: _____

Company Name: AGI COC No: _____ of _____ COCs

Address: 395 Reed Blvd Sampler: _____
City/State/Zip: Murrysville PA 15668 Walk-in Client: _____
Phone: 724-735-7000 Lab Sampling: _____
Fax: _____ Lab / SDG No.: _____

Project Name: 15106 - 1810 Lincoln Hwy

Site: 15106-004

PO # H618

| Sample Identification | Sample Date | Sample Time | Sample Type (C-Comp, G-Grab) | Matrix | # of Cont. | Analysis Turnaround Time | | Perform MS/MSD (Y/N) | Filtered Sample (Y/N) | TCL VOCs | PCRA DSS - Metals | Total DSS - Metals |
|-----------------------|-------------|-------------|---------------------------------|--------|------------|--------------------------|-------------------------------------|----------------------|-----------------------|----------|-------------------|--------------------|
| | | | | | | CALENDAR DAYS | WORKING DAYS | | | | | |
| MW-01: 20604:W | 4-7 | 1450 | L | L | 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X |
| MW-02: 20604:W | 4-7 | 1200 | L | L | 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X |
| MW-03: 20604:W | 4-7 | 1300 | L | L | 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X |
| MW-04: 20604:W | 4-7 | 1400 | L | L | 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X |

180-53870 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison: B Unknown

Special Instructions/QC Requirements & Comments:

Custody Seal No.: _____
Relinquished by: Ray RW Company: AGI Date/Time: 4-8-16
Relinquished by: Ron Sunden Company: BUICK Date/Time: 4-8-16 11:50
Relinquished by: _____ Company: _____ Date/Time: _____

7 8 - 0 = 2 8 # 1

DRIVER NAME *SPR SUNDMAN*
 DATE *FRIDAY 4-8-16*

QUICK COURIER SERVICE
 DRIVER NUMBER *6004*
 DRIVER MANIFEST

CALL IN NUMBERS ****NO TOLL CALL**** **ACCEPTED****
 Allentown (610) 439-2405 Plymouth Meeting (610) 825-3544
 Harrisburg (717) 364-1110 State College (814) 237-4342
 Pittsburgh (412) 921-7095 Wilkes-Barre (570) 824-4671

| TICKET NUMBER | FROM NAME ADDRESS | PICK-UP TIME | TO NAME ADDRESS | DELIV. TIME | PCS. | WEIGHT | PLEASE SIGN and PRINT NAME |
|---------------|-------------------------------------|--------------|--------------------------------------|--------------|----------|--------|--|
| | <i>GED SCIENCES MURKYSVILLE</i> | <i>11:00</i> | <i>WEST AMERICA RIDE BLAUNOX</i> | <i>11:22</i> | <i>1</i> | | <i>SIGN: [Signature]</i> PRINT: <i>CHRIS KOUTER TARGH</i> |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |
| | | | | | | | <i>SIGN: [Signature]</i> PRINT: |



Login Sample Receipt Checklist

Client: American Geosciences, Inc.

Job Number: 180-53670-1

Login Number: 53670

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \neq background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| 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 | |
| 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 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. | True | |
| 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 $< 8\text{mm}$ (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



3/18/2016

Mr. Dave Parsonage
American Geosciences, Inc.
3925 Reed Blvd., Ste 400
Murrysville, PA 15668

Dear Mr. Parsonage,

Enclosed are the sample data report , chain of custody, and quality control data for the sample(s) received on March 11, 2016 for your project: 15106 - 004 - 1810 Lincoln Hwy.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

A handwritten signature in black ink, appearing to read "David J. Masdea".

David J. Masdea
Laboratory Director

Enclosure:



Data Qualifiers

- ND/U** - Not Detected at or above the lower reporting limit

- E** - Concentration of analyte exceeds the range of the calibration curve

- J** - Indicates an estimated value when the target analyte concentration is quantified below the reporting limit.

- R** - Analytical results are from sample re-analysis

- C** - Non-target analyte co-elutes with compound.

- N** - Indicates presumptive evidence of compound: This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on mass spectral library search.



TO-17 Sample Receipt Log

Client: AGI Lab Project: AGI53-6062
Project: 15106-004 1810 Lincoln Hwy Date Received: 03/11/16

| Collection | | Sample Identification | Tube Serial Number | Sample Volume | Comments |
|------------|------|-----------------------|--------------------|---------------|----------|
| Date | Time | | | | |
| 3/11/2016 | 845 | VP01:201603:V | G0152804 | 140ml | |
| 3/11/2016 | 845 | VP01:201603:V | G0152816 | 35ml | |
| 3/11/2016 | 755 | VP02:201603:V | G0151430 | 140ml | |
| 3/11/2016 | 755 | VP02:201603:V | G0151453 | 35ml | |
| 3/11/2016 | 855 | VP03:201603:V | G0152846 | 140ml | |
| 3/11/2016 | 855 | VP03:201603:V | G0152857 | 35ml | |
| 3/11/2016 | 815 | VP04:201603:V | G0152114 | 140ml | |
| 3/11/2016 | 815 | VP04:201603:V | G0152128 | 35ml | |
| 3/11/2016 | 835 | VP05:201603:V | G0152152 | 140ml | |
| 3/11/2016 | 835 | VP05:201603:V | G0152800 | 35ml | |
| 3/11/2016 | NA | FD01:201603:V | G0151462 | 140ml | |
| 3/11/2016 | NA | FD01:201603:V | G0152075 | 35ml | |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_004.raw
 Sample ID: VP-02:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 14:51
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0151430
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | ND | 20 | U |
| 74-83-9 | Bromomethane | ND | 20 | U |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | 18.6 | 20 | J |
| 75-05-8 | Acetonitrile | 15.2 | 20 | J |
| 75-15-0 | Carbon disulfide | ND | 20 | U |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | ND | 20 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | ND | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 107.9 | 20 | |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | 40.9 | 20 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_004.raw
 Sample ID: VP-02:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 14:51
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0151430
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | ND | 20 | U |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropene | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | ND | 20 | U |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_004.raw
Sample ID: VP-02:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 14:51
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0151430
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_005.raw
 Sample ID: FD-01:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 15:40
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0151462
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | ND | 20 | U |
| 74-83-9 | Bromomethane | 26.1 | 20 | |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | 29.5 | 20 | |
| 75-05-8 | Acetonitrile | 24.1 | 20 | |
| 75-15-0 | Carbon disulfide | ND | 20 | U |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | ND | 20 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | ND | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 83.2 | 20 | |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | 42.6 | 20 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_005.raw
Sample ID: FD-01:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 15:40
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0151462
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | ND | 20 | U |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropene | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | ND | 20 | U |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_005.raw
Sample ID: FD-01:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 15:40
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0151462
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_006.raw
 Sample ID: VP-04:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 16:30
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152114
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | ND | 20 | U |
| 74-83-9 | Bromomethane | ND | 20 | U |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | 20.7 | 20 | |
| 75-05-8 | Acetonitrile | 22.5 | 20 | |
| 75-15-0 | Carbon disulfide | ND | 20 | U |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | ND | 20 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | ND | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 26.4 | 20 | |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | ND | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_006.raw
Sample ID: VP-04:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 16:30
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0152114
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | ND | 20 | U |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | ND | 20 | U |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_006.raw
Sample ID: VP-04:201603:V Dilution Factor: 1
Lab Project: AGI53-6062 Date Received: 3/11/2016
Inject Date/Time: 3/14/2016 16:30 Date Sampled: 3/11/2016
Instrument: ATD/GC/MS Last Updated: 3/15/2016
GC Method: TO_17B.mth MS Method: TO_17B.EXP
Quantify Method: MM_11_325_IS Tune File: 02-03-16.IPR
Calibration File: MM_11_325_IS Tube S/N: G0152114
Operator: JM Vol (L): 0.140
Description: 15106-004 -1810 Lincoln Hwy Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_007.raw
 Sample ID: VP-05:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 17:18
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152152
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | ND | 20 | U |
| 74-83-9 | Bromomethane | ND | 20 | U |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 20 | U |
| 75-05-8 | Acetonitrile | 30.3 | 20 | |
| 75-15-0 | Carbon disulfide | 24.9 | 20 | |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | ND | 20 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | 33.2 | 20 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 20 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | ND | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_007.raw
 Sample ID: VP-05:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 17:18
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152152
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | 34.1 | 20 | |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropene | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | ND | 20 | U |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_007.raw
Sample ID: VP-05:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 17:18
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0152152
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_008.raw
Sample ID: VP-03:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 18:08
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0152846
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | ND | 20 | U |
| 74-83-9 | Bromomethane | ND | 20 | U |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 20 | U |
| 75-05-8 | Acetonitrile | ND | 20 | U |
| 75-15-0 | Carbon disulfide | ND | 20 | U |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | ND | 20 | U |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | ND | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 20 | U |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | ND | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_008.raw
 Sample ID: VP-03:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 18:08
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152846
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | ND | 20 | U |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropene | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | ND | 20 | U |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_008.raw
Sample ID: VP-03:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 18:08
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0152846
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_009.raw
 Sample ID: VP-01:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 18:57
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152804
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|--------------------------------|--------------|-----------------|-----------|
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | U |
| 74-87-3 | Chloromethane | ND | 20 | U |
| 75-01-4 | Vinyl Chloride | 16.0 | 20 | J |
| 74-83-9 | Bromomethane | ND | 20 | U |
| 74-00-3 | Chloroethane | ND | 20 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | U |
| 60-29-7 | Diethyl ether | ND | 20 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | ND | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | 275.5 | 20 | |
| 75-05-8 | Acetonitrile | ND | 20 | U |
| 75-15-0 | Carbon disulfide | ND | 20 | U |
| 107-05-1 | 3-Chloropropene | ND | 20 | U |
| 75-09-2 | Methylene Chloride | ND | 20 | U |
| 107-13-1 | Acrylonitrile | ND | 20 | U |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | U |
| 75-34-3 | 1,1,-Dichloroethane | 53.1 | 20 | |
| 126-99-8 | 2-chloro-1,3-butadiene | ND | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 20 | U |
| 96-33-3 | Methyl acrylate | ND | 20 | U |
| 126-98-7 | Methacrylonitrile | ND | 20 | U |
| 109-99-9 | Tetrahydrofuran | ND | 20 | U |
| 67-66-3 | Chloroform | ND | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 344.9 | 20 | |
| 563-58-6 | 1,1-Dichloropropene | ND | 20 | U |
| 56-23-5 | Carbon Tetrachloride | ND | 20 | U |
| 71-43-2 | Benzene | ND | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | U |
| 79-01-6 | Trichloroethene | ND | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | U |
| 80-62-6 | Methyl methacrylate | ND | 20 | U |
| 123-91-1 | 1,4-Dioxane | ND | 20 | U |
| 74-95-3 | Dibromomethane | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_009.raw
 Sample ID: VP-01:201603:V
 Lab Project: AGI53-6062
 Inject Date/Time: 3/14/2016 18:57
 Instrument: ATD/GC/MS
 GC Method: TO_17B.mth
 Quantify Method: MM_11_325_IS
 Calibration File: MM_11_325_IS
 Operator: JM
 Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
 Date Received: 3/11/2016
 Date Sampled: 3/11/2016
 Last Updated: 3/15/2016
 MS Method: TO_17B.EXP
 Tune File: 02-03-16.IPR
 Tube S/N: G0152804
 Vol (L): 0.140
 Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 75-27-4 | Bromodichloromethane | ND | 20 | U |
| 79-46-9 | 2-Nitropropane | ND | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | U |
| 108-88-3 | Toluene | ND | 20 | U |
| 97-63-2 | Ethyl methacrylate | ND | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | U |
| 142-28-9 | 1,3-Dichloropropane | ND | 20 | U |
| 127-18-4 | Tetrachloroethene | 18.0 | 20 | J |
| 124-48-1 | Dibromochloromethane | ND | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | U |
| 108-90-7 | Chlorobenzene | ND | 20 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 20 | U |
| 100-41-4 | Ethylbenzene | ND | 20 | U |
| 108-38-3 | m&p Xylene | ND | 20 | U |
| 95-47-6 | o-Xylene | ND | 20 | U |
| 100-42-5 | Styrene | ND | 20 | U |
| 75-25-2 | Bromoform | ND | 20 | U |
| 98-82-8 | Cumene | ND | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | ND | 20 | U |
| 103-65-1 | n-Propylbenzene | ND | 20 | U |
| 108-86-1 | Bromobenzene | ND | 20 | U |
| 95-49-8 | 2-Chlorotoluene | ND | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | U |
| 106-43-4 | 4-Chlorotoluene | ND | 20 | U |
| 98-06-6 | tert-Butylbenzene | ND | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | U |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 20 | U |
| 76-01-7 | Pentachloroethane | ND | 20 | U |
| 99-87-6 | p-Isopropyltoluene | ND | 20 | U |
| 135-98-8 | sec-Butylbenzene | ND | 20 | U |



Volatile Organics Analysis

EPA Method TO-17

File Name: C:\TurboMass\TD1.PRO\Data\031416_009.raw
Sample ID: VP-01:201603:V
Lab Project: AGI53-6062
Inject Date/Time: 3/14/2016 18:57
Instrument: ATD/GC/MS
GC Method: TO_17B.mth
Quantify Method: MM_11_325_IS
Calibration File: MM_11_325_IS
Operator: JM
Description: 15106-004 -1810 Lincoln Hwy

Dilution Factor: 1
Date Received: 3/11/2016
Date Sampled: 3/11/2016
Last Updated: 3/15/2016
MS Method: TO_17B.EXP
Tune File: 02-03-16.IPR
Tube S/N: G0152804
Vol (L): 0.140
Matrix: AIR

| CAS Number | Compound | Result-ug/m3 | Reporting Limit | Qualifier |
|------------|-----------------------------|--------------|-----------------|-----------|
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | U |
| 104-51-8 | n-Butylbenzene | ND | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | U |
| 98-95-3 | Nitrobenzene | ND | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 20 | U |
| 91-20-3 | Naphthalene | ND | 20 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 20 | U |



Volatile Organics Analysis
Laboratory Quality Control

EPA Method TO-17

Method Blank

Project: 15106-004 - 1810 Lincoln Hwy

Lab Project Number: 6062

File Number: 0311416_003

Analytical Date: 03/14/16

| Compound Name | Reporting | | Compound Name | Reporting | |
|--------------------------------|-------------------|------------------|-----------------------------|-------------------|------------------|
| | Result (ug/m3) | Limit (ug/m3) | | Result (ug/m3) | Limit (ug/m3) |
| Dichlorodifluoromethane | ND | 20 | trans-1,3-Dichloropropene | ND | 20 |
| Chloromethane | ND | 20 | 1,1,2-Trichloroethane | ND | 20 |
| Vinyl Chloride | ND | 20 | 1,3-Dichloropropane | ND | 20 |
| Bromomethane | ND | 20 | Tetrachloroethene | ND | 20 |
| Chloroethane | ND | 20 | Dibromochloromethane | ND | 20 |
| Trichlorofluoromethane | ND | 20 | 1,2-Dibromoethane | ND | 20 |
| Diethyl ether | ND | 20 | Chlorobenzene | ND | 20 |
| 1,1,2-Trichlorotrifluoroethane | ND | 20 | 1,1,1,2-Tetrachloroethane | ND | 20 |
| 1,1-Dichloroethene | ND | 20 | Ethylbenzene | ND | 20 |
| Acetonitrile | ND | 20 | m&p Xylene | ND | 20 |
| Carbon disulfide | ND | 20 | o-Xylene | ND | 20 |
| 3-Chloropropene | ND | 20 | Styrene | ND | 20 |
| Methylene Chloride | ND | 20 | Bromoform | ND | 20 |
| Acrylonitrile | ND | 20 | Cumene | ND | 20 |
| trans-1,2-Dichloroethene | ND | 20 | 1,1,2,2-Tetrachloroethane | ND | 20 |
| 1,1,-Dichloroethane | ND | 20 | trans-1,4-dichloro-2-butene | ND | 20 |
| 2-chloro-1,3-butadiene | ND | 20 | n-Propylbenzene | ND | 20 |
| cis-1,2-Dichloroethene | ND | 20 | Bromobenzene | ND | 20 |
| Methyl acrylate | ND | 20 | 2-Chlorotoluene | ND | 20 |
| Methylacrylonitrile | ND | 20 | 1,3,5-Trimethylbenzene | ND | 20 |
| Tetrahydrofuran | ND | 20 | 4-Chlorotoluene | ND | 20 |
| Chloroform | ND | 20 | tert-Butylbenzene | ND | 20 |
| 1,1,1-Trichloroethane | ND | 20 | 1,2,4-Trimethylbenzene | ND | 20 |
| 1,1-Dichloropropene | ND | 20 | 1,2,3-Trichloropropane | ND | 20 |
| Carbon Tetrachloride | ND | 20 | Pentachloroethane | ND | 20 |
| Benzene | ND | 20 | p-Isopropyltoluene | ND | 20 |
| 1,2-Dichloroethane | ND | 20 | sec-Butylbenzene | ND | 20 |
| Trichloroethene | ND | 20 | 1,3-Dichlorobenzene | ND | 20 |
| 1,2-Dichloropropane | ND | 20 | 1,4-Dichlorobenzene | ND | 20 |
| Methyl methacrylate | ND | 20 | n-Butylbenzene | ND | 20 |
| 1,4-Dioxane | ND | 20 | 1,2-Dichlorobenzene | ND | 20 |
| Dibromomethane | ND | 20 | 1,2-Dibromo-3-chloropropane | ND | 20 |
| Bromodichloromethane | ND | 20 | Nitrobenzene | ND | 20 |
| 2-Nitropropane | ND | 20 | 1,2,4-Trichlorobenzene | ND | 20 |
| cis-1,3-Dichloropropene | ND | 20 | Hexachlorobutadiene | ND | 20 |
| Toluene | ND | 20 | Naphthalene | ND | 20 |
| Ethyl methacrylate | ND | 20 | 1,2,3-Trichlorobenzene | ND | 20 |



Volatile Organics Analysis
Laboratory Quality Control

EPA Method TO-17

Laboratory Control Sample

Project: 15106-004 - 1810 Lincoln Hwy

Lab Project Number: 6062

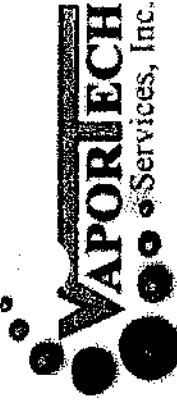
File Number: 031416_002

Analytical Date: 03/14/16

| Compound Name | LCS % Recovery | % Recovery Limit | Compound Name | LCS % Recovery | % Recovery Limit |
|--------------------------------|-------------------|---------------------|-----------------------------|-------------------|---------------------|
| Dichlorodifluoromethane | 111 | 70-130 | trans-1,3-Dichloropropene | 115 | 70-130 |
| Chloromethane | 110 | 70-130 | 1,1,2-Trichloroethane | 108 | 70-130 |
| Vinyl Chloride | 108 | 70-130 | 1,3-Dichloropropane | 114 | 70-130 |
| Bromomethane | 119 | 70-130 | Tetrachloroethene | 105 | 70-130 |
| Chloroethane | 96 | 70-130 | Dibromochloromethane | 108 | 70-130 |
| Trichlorofluoromethane | 103 | 70-130 | 1,2-Dibromoethane | 113 | 70-130 |
| Diethyl ether | 108 | 70-130 | Chlorobenzene | 111 | 70-130 |
| 1,1,2-Trichlorotrifluoroethane | 113 | 70-130 | 1,1,1,2-Tetrachloroethane | 114 | 70-130 |
| 1,1-Dichloroethene | 104 | 70-130 | Ethylbenzene | 113 | 70-130 |
| Acetonitrile | 114 | 70-130 | m&p Xylene | 116 | 70-130 |
| Carbon disulfide | 107 | 70-130 | o-Xylene | 111 | 70-130 |
| 3-Chloropropene | 95 | 70-130 | Styrene | 114 | 70-130 |
| Methylene Chloride | 88 | 70-130 | Bromoform | 105 | 70-130 |
| Acrylonitrile | 111 | 70-130 | Cumene | 109 | 70-130 |
| trans-1,2-Dichloroethene | 113 | 70-130 | 1,1,2,2-Tetrachloroethane | 116 | 70-130 |
| 1,1,-Dichloroethane | 121 | 70-130 | trans-1,4-dichloro-2-butene | 109 | 70-130 |
| 2-chloro-1,3-butadiene | 108 | 70-130 | n-Propylbenzene | 120 | 70-130 |
| cis-1,2-Dichloroethene | 109 | 70-130 | Bromobenzene | 116 | 70-130 |
| Methyl acrylate | 84 | 70-130 | 2-Chlorotoluene | 111 | 70-130 |
| Methylacrylonitrile | 109 | 70-130 | 1,3,5-Trimethylbenzene | 113 | 70-130 |
| Tetrahydrofuran | 109 | 70-130 | 4-Chlorotoluene | 116 | 70-130 |
| Chloroform | 114 | 70-130 | tert-Butylbenzene | 107 | 70-130 |
| 1,1,1-Trichloroethane | 128 | 70-130 | 1,2,4-Trimethylbenzene | 116 | 70-130 |
| 1,1-Dichloropropene | 109 | 70-130 | 1,2,3-Trichloropropane | 109 | 70-130 |
| Carbon Tetrachloride | 104 | 70-130 | Pentachloroethane | 105 | 70-130 |
| Benzene | 107 | 70-130 | p-isopropyltoluene | 111 | 70-130 |
| 1,2-Dichloroethane | 111 | 70-130 | sec-Butylbenzene | 109 | 70-130 |
| Trichloroethene | 109 | 70-130 | 1,3-Dichlorobenzene | 117 | 70-130 |
| 1,2-Dichloropropane | 116 | 70-130 | 1,4-Dichlorobenzene | 110 | 70-130 |
| Methyl methacrylate | 73 | 70-130 | n-Butylbenzene | 116 | 70-130 |
| 1,4-Dioxane | 112 | 70-130 | 1,2-Dichlorobenzene | 112 | 70-130 |
| Dibromomethane | 120 | 70-130 | 1,2-Dibromo-3-chloropropane | 103 | 70-130 |
| Bromodichloromethane | 112 | 70-130 | Nitrobenzene | 97 | 70-130 |
| 2-Nitropropane | 93 | 70-130 | 1,2,4-Trichlorobenzene | 107 | 70-130 |
| cis-1,3-Dichloropropene | 118 | 70-130 | Hexachlorobutadiene | 109 | 70-130 |
| Toluene | 105 | 70-130 | Naphthalene | 115 | 70-130 |
| Ethyl methacrylate | 91 | 70-130 | 1,2,3-Trichlorobenzene | 102 | 70-130 |

CHAIN-OF-CUSTODY RECORD

AGI 53-6062



VaporTech Serviv Inc.
1158 Pittsburgh Road, Suite 201
Valencia, PA 16059
Phone: (724) 898-2622 Fax: (724) 898-2633
www.vaportechservices.com

Company Name: AGF
Address: 3485 Reed Blvd
City: MARYSVILLE State: PA Zip: 15668
Project Manager: Dave Paterson
Project Name: 1810 Lincoln Hwy
Project Number: 15106-004
Phone #: 724-733-7000 Fax #:

Sampler's signature: *[Signature]*

Purchase Order #

Analysis Options: Enter letters in Requested Analysis columns below.

| | |
|-------------------------------|---------------------------|
| Light Hydrocarbons | Unleaded Gasoline List |
| ASTM D-1946 - Permanent Gases | TPH (Specify range below) |
| Methane | Chlorinated Hydrocarbons |
| Methane, Ethane, Ethylene | 624 Compound List |
| Hydrogen | TO-17 8260 List |
| BTEX | TO-17 Specified List |

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane

Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide

BTEX: Benzene, Toluene, Ethyl Benzene, m & p-Xylene, o-Xylene

Unleaded Gasoline list: BTEX, MTBE, Cumene, Naphthalene

TPH Ranges: C1-C4, C5-C10, C4-C12, C11-C18

Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform

1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

| Collection Date | Time | # of Containers | Sample Type | Sample Identification | K | Remarks | Volume / Tube Serial # | Lab Use |
|-----------------|------|-----------------|-------------|-----------------------|---|---------|------------------------|---------|
| 3-11-16 | 845 | 2 | VORX | VP-01: 201603-V | K | | | |
| | 755 | 2 | | VP-02: 201603-V | K | | | |
| | 855 | 2 | | VP-03: 201603-V | K | | | |
| | 815 | 2 | | VP-04: 201603-V | K | | | |
| | 835 | 2 | | VP-05: 201603-V | K | | | |
| | NA | 2 | | FD-01: 201603-V | K | | | |

Results to: Dave Paterson
Email: dpaterson@convergex.com

Invoice to: Email:

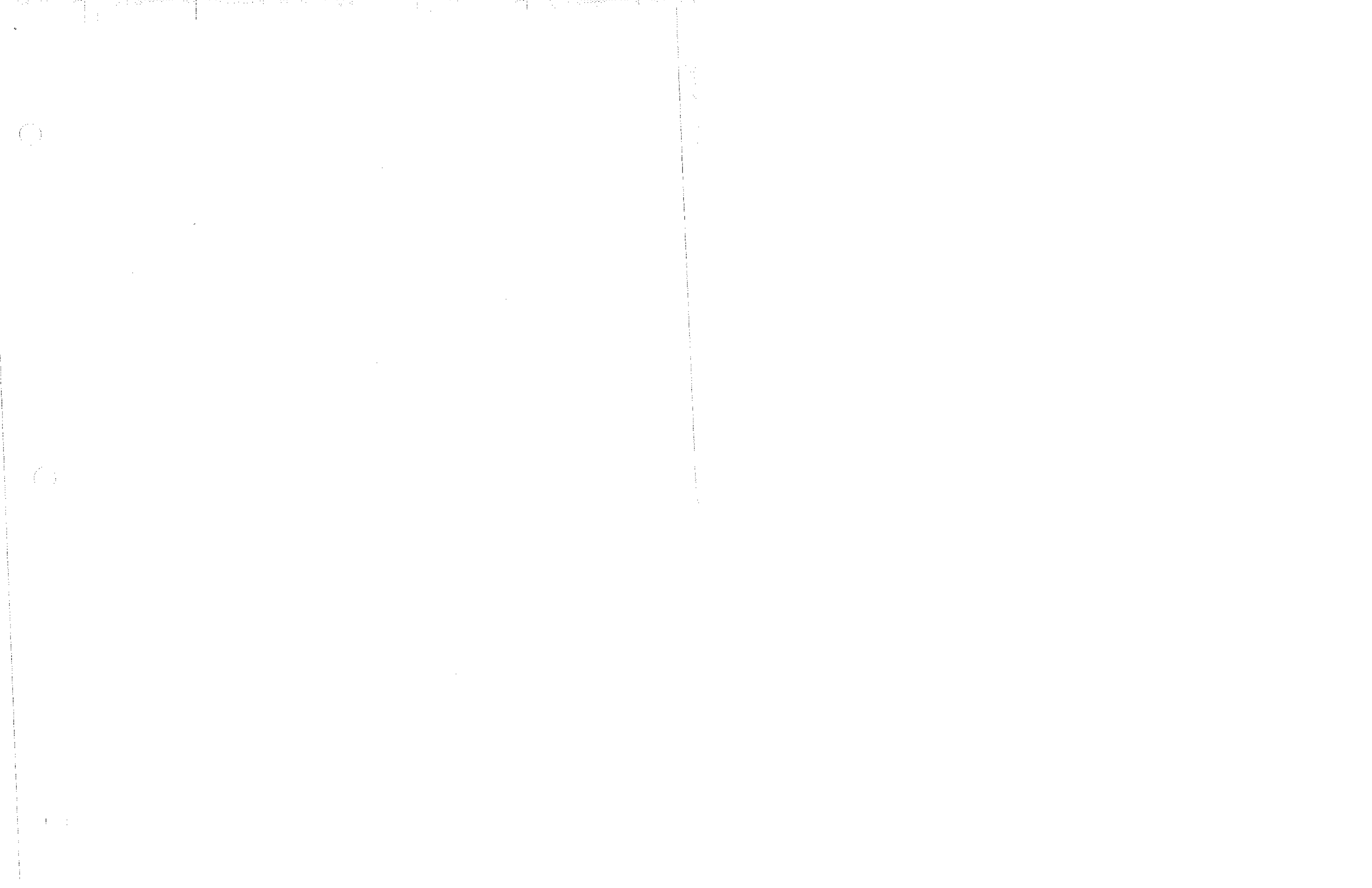
Relinquished by: *[Signature]* Company: AGF Date: 3-11-16 Time: 435

Relinquished by: *[Signature]* Company: *[Signature]* Date: 3-11-16 Time: 435

Relinquished by: Company: Company: Date: Date: Time: Time:

WHITE COPY: Laboratory to return

YELLOW COPY: Submitter



APPENDIX D
JUNE 2016
LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

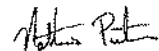
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-55572-1
Client Project/Site: 160-962-0002 35th Strouss Associates-GW

For:
Civil & Environmental Consultants Inc
333 Baldwin Rd.
Pittsburgh, Pennsylvania 15205

Attn: Jennfier Ewing



Authorized for release by:
6/20/2016 1:52:16 PM

Nathan Pietras, Project Manager II
(330)966-8296
nathan.pietras@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

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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Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Job ID: 180-55572-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-55572-1

Comments

No additional comments.

Receipt

The samples were received on 6/9/2016 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

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

Metals

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

Definitions/Glossary

Client: Civil & Environmental Consultants Inc
Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |

Metals

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| w | 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| 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 |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Certification Summary

Client: Civil & Environmental Consultants Inc
Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Laboratory: TestAmerica Pittsburgh

→ certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------|---------|------------|------------------|-----------------|
| Pennsylvania | NELAP | 3 | 02-00416 | 04-30-17 |

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

| Sample ID | Client Sample ID | Matrix | Collected | Received |
|-------------|------------------|--------|----------------|----------------|
| 180-55572-1 | MW-01 | Water | 06/08/16 12:35 | 06/09/16 12:30 |
| 180-55572-2 | MW-02 | Water | 06/08/16 14:00 | 06/09/16 12:30 |
| 180-55572-3 | MW-03 | Water | 06/08/16 13:25 | 06/09/16 12:30 |
| 180-55572-4 | MW-04 | Water | 06/08/16 10:35 | 06/09/16 12:30 |
| 180-55572-5 | MW-DUP | Water | 06/08/16 00:00 | 06/09/16 12:30 |
| 180-55572-6 | TRIP BLANK | Water | 06/08/16 10:35 | 06/09/16 12:30 |

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 6010C | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-01

Lab Sample ID: 180-55572-1

Date Collected: 06/08/16 12:35
 Date Received: 06/09/16 12:30

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 09:53 | KLG | TAL PIT |
| | | Instrument ID: CHHP3 | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 179093 | 06/14/16 07:53 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 179602 | 06/17/16 13:37 | RJR | TAL PIT |
| | | Instrument ID: C | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 178908 | 06/10/16 13:04 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 179058 | 06/13/16 10:51 | EVR | TAL PIT |
| | | Instrument ID: K | | | | | | | | |

Client Sample ID: MW-02

Lab Sample ID: 180-55572-2

Date Collected: 06/08/16 14:00
 Date Received: 06/09/16 12:30

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 13:16 | KLG | TAL PIT |
| | | Instrument ID: CHHP3 | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 179093 | 06/14/16 07:53 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 179602 | 06/17/16 13:42 | RJR | TAL PIT |
| | | Instrument ID: C | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 178908 | 06/10/16 13:04 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 179058 | 06/13/16 10:53 | EVR | TAL PIT |
| | | Instrument ID: K | | | | | | | | |

Client Sample ID: MW-03

Lab Sample ID: 180-55572-3

Date Collected: 06/08/16 13:25
 Date Received: 06/09/16 12:30

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 13:38 | KLG | TAL PIT |
| | | Instrument ID: CHHP3 | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 179093 | 06/14/16 07:53 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 179602 | 06/17/16 13:47 | RJR | TAL PIT |
| | | Instrument ID: C | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 178908 | 06/10/16 13:04 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 179058 | 06/13/16 10:54 | EVR | TAL PIT |
| | | Instrument ID: K | | | | | | | | |

Client Sample ID: MW-04

Lab Sample ID: 180-55572-4

Date Collected: 06/08/16 10:35
 Date Received: 06/09/16 12:30

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 14:01 | KLG | TAL PIT |

TestAmerica Pittsburgh

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-04

Lab Sample ID: 180-55572-4

Date Collected: 06/08/16 10:35

Matrix: Water

Date Received: 06/09/16 12:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 14:01 | KLG | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 179093 | 06/14/16 07:53 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 179602 | 06/17/16 13:53 | RJR | TAL PIT |
| Instrument ID: C | | | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 178908 | 06/10/16 13:04 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 179058 | 06/13/16 10:56 | EVR | TAL PIT |
| Instrument ID: K | | | | | | | | | | |

Client Sample ID: MW-DUP

Lab Sample ID: 180-55572-5

Date Collected: 06/08/16 00:00

Matrix: Water

Date Received: 06/09/16 12:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 14:23 | KLG | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |
| Dissolved | Prep | 3005A | | | 50 mL | 50 mL | 179093 | 06/14/16 07:53 | ANA | TAL PIT |
| Dissolved | Analysis | 6010C | | 1 | 50 mL | 50 mL | 179602 | 06/17/16 13:58 | RJR | TAL PIT |
| Instrument ID: C | | | | | | | | | | |
| Dissolved | Prep | 7470A | | | 50 mL | 50 mL | 178908 | 06/10/16 13:04 | EVR | TAL PIT |
| Dissolved | Analysis | 7470A | | 1 | 50 mL | 50 mL | 179058 | 06/13/16 10:58 | EVR | TAL PIT |
| Instrument ID: K | | | | | | | | | | |

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-55572-6

Date Collected: 06/08/16 10:35

Matrix: Water

Date Received: 06/09/16 12:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 179082 | 06/14/16 14:46 | KLG | TAL PIT |
| Instrument ID: CHHP3 | | | | | | | | | | |

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

EVR = Emilie Reichenbach

Batch Type: Analysis

EVR = Emilie Reichenbach

KLG = Kathy Gordon

RJR = Ron Rosenbaum

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-01

Sample Collected: 06/08/16 12:35

Date Received: 06/09/16 12:30

Lab Sample ID: 180-55572-1

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 5.7 | | 5.0 | 0.65 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,1-Dichloroethane | 8.5 | | 5.0 | 0.84 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,1-Dichloroethene | 4.3 | J | 5.0 | 1.1 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:53 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 09:53 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 09:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 09:53 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 09:53 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 09:53 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 09:53 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:53 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 09:53 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 09:53 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:53 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 09:53 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Chloroethane | ND | F2 F1 | 5.0 | 2.4 | ug/L | | | 06/14/16 09:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 09:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 09:53 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 09:53 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:53 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:53 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 09:53 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 09:53 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 09:53 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 09:53 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:53 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 09:53 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 09:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 09:53 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 09:53 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:53 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:53 | 1 |
| Arenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 09:53 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-01

Lab Sample ID: 180-55572-1

Date Collected: 06/08/16 12:35

Matrix: Water

Date Received: 06/09/16 12:30

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 123 | | 06/14/16 09:53 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 75 - 120 | | 06/14/16 09:53 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 80 - 120 | | 06/14/16 09:53 | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | 06/14/16 09:53 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Barium | 89 | J | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Cadmium | ND | | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Chromium | ND | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |
| Selenium | ND | | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:37 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:51 | 1 |

Client Sample ID: MW-02

Lab Sample ID: 180-55572-2

Date Collected: 06/08/16 14:00

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 5.6 | | 5.0 | 0.65 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 13:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 13:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 13:16 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 13:16 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 13:16 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 13:16 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 13:16 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 13:16 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:16 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 13:16 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:16 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-02

Lab Sample ID: 180-55572-2

Date Collected: 06/08/16 14:00

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 13:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 13:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 13:16 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 13:16 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:16 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:16 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:16 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 13:16 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 13:16 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 13:16 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:16 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 13:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 13:16 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 13:16 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 13:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 13:16 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 13:16 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:16 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:16 | 1 |
| Arenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 13:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 123 | | 06/14/16 13:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 75 - 120 | | 06/14/16 13:16 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 80 - 120 | | 06/14/16 13:16 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 06/14/16 13:16 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Barium | 170 | J | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Cadmium | 0.20 | J B | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Chromium | ND | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |
| Selenium | 4.4 | J | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:42 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:53 | 1 |

Client Sample ID: MW-03

Lab Sample ID: 180-55572-3

Date Collected: 06/08/16 13:25

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 47 | | 5.0 | 0.65 | ug/L | | | 06/14/16 13:38 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-03

Lab Sample ID: 180-55572-3

Date Collected: 06/08/16 13:25

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,1-Dichloroethane | 9.4 | | 5.0 | 0.84 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,1-Dichloroethene | 7.1 | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:38 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 13:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 13:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 13:38 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 13:38 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 13:38 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 13:38 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:38 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 13:38 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 13:38 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:38 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 13:38 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 13:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 13:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 13:38 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 13:38 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 13:38 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:38 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Cyclohexane | ND | | 5.0 | 0.98 | ug/L | | | 06/14/16 13:38 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 13:38 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 13:38 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 13:38 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:38 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 13:38 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 13:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 13:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 13:38 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 13:38 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 13:38 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 13:38 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 13:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 123 | | 06/14/16 13:38 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-03

Lab Sample ID: 180-55572-3

Date Collected: 06/08/16 13:25

Matrix: Water

Date Received: 06/09/16 12:30

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95 | | 75 - 120 | | 06/14/16 13:38 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 80 - 120 | | 06/14/16 13:38 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | 06/14/16 13:38 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Barium | 110 | J | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Cadmium | 15 | B | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Chromium | 5.2 | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |
| Selenium | ND | | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:47 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:54 | 1 |

Client Sample ID: MW-04

Lab Sample ID: 180-55572-4

Date Collected: 06/08/16 10:35

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.65 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:01 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:01 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 14:01 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 14:01 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 14:01 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 14:01 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:01 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:01 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 14:01 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 14:01 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:01 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 14:01 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:01 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-04

Lab Sample ID: 180-55572-4

Date Collected: 06/08/16 10:35
 Date Received: 06/09/16 12:30

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 14:01 | 1 |
| cis-1,2-Dichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 14:01 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 14:01 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:01 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:01 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:01 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:01 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:01 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 14:01 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:01 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 14:01 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 14:01 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:01 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 14:01 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 14:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 14:01 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 14:01 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:01 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:01 | 1 |
| Arenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 14:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 123 | | 06/14/16 14:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 75 - 120 | | 06/14/16 14:01 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 80 - 120 | | 06/14/16 14:01 | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 06/14/16 14:01 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Barium | 56 | J | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Cadmium | ND | | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Chromium | ND | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |
| Selenium | 3.9 | J | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:53 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:56 | 1 |

Client Sample ID: MW-DUP

Lab Sample ID: 180-55572-5

Date Collected: 06/08/16 00:00
 Date Received: 06/09/16 12:30

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 49 | | 5.0 | 0.65 | ug/L | | | 06/14/16 14:23 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-DUP

Lab Sample ID: 180-55572-5

Date Collected: 06/08/16 00:00
 Date Received: 06/09/16 12:30

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,1-Dichloroethane | 10 | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,1-Dichloroethene | 6.6 | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:23 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:23 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:23 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 14:23 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 14:23 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 14:23 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 14:23 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:23 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 14:23 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 14:23 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:23 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 14:23 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 14:23 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:23 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 14:23 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 14:23 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:23 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:23 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:23 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:23 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 14:23 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 14:23 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:23 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 14:23 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 14:23 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:23 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 14:23 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 14:23 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:23 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:23 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 14:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 123 | | 06/14/16 14:23 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: MW-DUP

Lab Sample ID: 180-55572-5

Date Collected: 06/08/16 00:00

Matrix: Water

Date Received: 06/09/16 12:30

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|--------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 75-120 | | 06/14/16 14:23 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 80-120 | | 06/14/16 14:23 | 1 |
| Toluene-d8 (Surr) | 95 | | 80-120 | | 06/14/16 14:23 | 1 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Barium | 110 | J | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Cadmium | 15 | B | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Chromium | 5.1 | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |
| Selenium | 3.9 | J | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 13:58 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:58 | 1 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-55572-6

Date Collected: 06/08/16 10:35

Matrix: Water

Date Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.65 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:46 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:46 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 14:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 14:46 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 14:46 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 14:46 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 14:46 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:46 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:46 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 14:46 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 14:46 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:46 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 14:46 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:46 | 1 |

TestAmerica Pittsburgh

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-55572-6

Sample Collected: 06/08/16 10:35

Matrix: Water

Sample Received: 06/09/16 12:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 14:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 14:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 14:46 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 14:46 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 14:46 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:46 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:46 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 14:46 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 14:46 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 14:46 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:46 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 14:46 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 14:46 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:46 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 14:46 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 14:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 14:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 14:46 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 14:46 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 14:46 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 14:46 | 1 |
| Aromatics, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 14:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 62 - 123 | | 06/14/16 14:46 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 75 - 120 | | 06/14/16 14:46 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 80 - 120 | | 06/14/16 14:46 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 06/14/16 14:46 | 1 |

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

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

Lab Sample ID: MB 180-179082/8

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

Matrix: Water
 Analysis Batch: 179082

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.65 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.97 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.7 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.85 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.2 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:30 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 09:30 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.1 | ug/L | | | 06/14/16 09:30 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.0 | ug/L | | | 06/14/16 09:30 | 1 |
| Acetone | ND | | 20 | 5.0 | ug/L | | | 06/14/16 09:30 | 1 |
| Benzene | ND | | 5.0 | 0.82 | ug/L | | | 06/14/16 09:30 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/L | | | 06/14/16 09:30 | 1 |
| Bromomethane | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:30 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.74 | ug/L | | | 06/14/16 09:30 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.91 | ug/L | | | 06/14/16 09:30 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:30 | 1 |
| Chloroform | ND | | 5.0 | 0.77 | ug/L | | | 06/14/16 09:30 | 1 |
| Chloromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Chloroethane | ND | | 5.0 | 2.4 | ug/L | | | 06/14/16 09:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.5 | ug/L | | | 06/14/16 09:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.79 | ug/L | | | 06/14/16 09:30 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.83 | ug/L | | | 06/14/16 09:30 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 1.4 | ug/L | | | 06/14/16 09:30 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:30 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Cyclohexane | ND | | 5.0 | 0.96 | ug/L | | | 06/14/16 09:30 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.84 | ug/L | | | 06/14/16 09:30 | 1 |
| Methyl acetate | ND | | 25 | 7.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.95 | ug/L | | | 06/14/16 09:30 | 1 |
| Methylene Chloride | ND | | 5.0 | 4.1 | ug/L | | | 06/14/16 09:30 | 1 |
| Styrene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:30 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.94 | ug/L | | | 06/14/16 09:30 | 1 |
| Toluene | ND | | 5.0 | 0.75 | ug/L | | | 06/14/16 09:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 06/14/16 09:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.0 | ug/L | | | 06/14/16 09:30 | 1 |
| Trichloroethene | ND | | 5.0 | 0.90 | ug/L | | | 06/14/16 09:30 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/L | | | 06/14/16 09:30 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 06/14/16 09:30 | 1 |
| Xylenes, Total | ND | | 10 | 1.4 | ug/L | | | 06/14/16 09:30 | 1 |

TestAmerica Pittsburgh

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 123 | | 06/14/16 09:30 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 75 - 120 | | 06/14/16 09:30 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 80 - 120 | | 06/14/16 09:30 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | 06/14/16 09:30 | 1 |

Lab Sample ID: LCS 180-179082/3
 Matrix: Water
 Analysis Batch: 179082

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-Trichloroethane | 40.0 | 41.9 | | ug/L | | 105 | 69 - 134 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 38.3 | | ug/L | | 96 | 59 - 136 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 40.5 | | ug/L | | 101 | 70 - 131 |
| 1,1,2-Trichloroethane | 40.0 | 38.2 | | ug/L | | 95 | 75 - 126 |
| 1,1-Dichloroethane | 40.0 | 38.7 | | ug/L | | 97 | 77 - 122 |
| 1,1-Dichloroethene | 40.0 | 37.3 | | ug/L | | 93 | 69 - 127 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 34.4 | | ug/L | | 86 | 28 - 150 |
| 1,2-Dichlorobenzene | 40.0 | 39.3 | | ug/L | | 98 | 75 - 125 |
| 1,2-Dichloroethane | 40.0 | 37.8 | | ug/L | | 94 | 63 - 140 |
| 1,2-Dichloropropane | 40.0 | 37.3 | | ug/L | | 93 | 75 - 114 |
| 1,2,4-Trichlorobenzene | 40.0 | 37.4 | | ug/L | | 94 | 35 - 150 |
| 1,3-Dichlorobenzene | 40.0 | 39.2 | | ug/L | | 98 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 38.7 | | ug/L | | 97 | 76 - 123 |
| 2-Butanone (MEK) | 40.0 | 33.7 | | ug/L | | 84 | 31 - 139 |
| 2-Hexanone | 40.0 | 34.7 | | ug/L | | 87 | 35 - 129 |
| Methyl-2-pentanone (MIBK) | 40.0 | 35.0 | | ug/L | | 88 | 33 - 135 |
| Acetone | 40.0 | 36.7 | | ug/L | | 92 | 10 - 141 |
| Benzene | 40.0 | 38.0 | | ug/L | | 95 | 80 - 120 |
| Bromoform | 40.0 | 37.5 | | ug/L | | 94 | 49 - 137 |
| Bromomethane | 40.0 | 40.2 | | ug/L | | 101 | 45 - 150 |
| Carbon disulfide | 40.0 | 39.6 | | ug/L | | 99 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 42.3 | | ug/L | | 106 | 63 - 139 |
| Chlorobenzene | 40.0 | 39.0 | | ug/L | | 98 | 83 - 120 |
| Chlorodibromomethane | 40.0 | 41.1 | | ug/L | | 103 | 64 - 124 |
| Chloroform | 40.0 | 38.8 | | ug/L | | 97 | 77 - 119 |
| Chloromethane | 40.0 | 38.8 | | ug/L | | 97 | 49 - 133 |
| Chloroethane | 40.0 | 45.4 | | ug/L | | 113 | 33 - 150 |
| cis-1,2-Dichloroethene | 40.0 | 39.9 | | ug/L | | 100 | 82 - 116 |
| cis-1,3-Dichloropropene | 40.0 | 35.8 | | ug/L | | 89 | 74 - 123 |
| Dichlorobromomethane | 40.0 | 37.9 | | ug/L | | 95 | 71 - 119 |
| Dichlorodifluoromethane | 40.0 | 38.1 | | ug/L | | 95 | 28 - 140 |
| Ethylbenzene | 40.0 | 39.4 | | ug/L | | 98 | 79 - 124 |
| 1,2-Dibromoethane | 40.0 | 37.8 | | ug/L | | 95 | 57 - 124 |
| Cyclohexane | 40.0 | 39.7 | | ug/L | | 99 | 69 - 124 |
| Isopropylbenzene | 40.0 | 39.8 | | ug/L | | 100 | 73 - 130 |
| Methyl acetate | 200 | 182 | | ug/L | | 91 | 34 - 127 |
| Methyl tert-butyl ether | 40.0 | 38.0 | | ug/L | | 95 | 53 - 122 |
| Methylcyclohexane | 40.0 | 40.0 | | ug/L | | 100 | 67 - 120 |
| Methylene Chloride | 40.0 | 35.6 | | ug/L | | 89 | 75 - 120 |
| m-Xylene & p-Xylene | 40.0 | 40.0 | | ug/L | | 100 | 78 - 124 |
| o-Xylene | 40.0 | 40.3 | | ug/L | | 101 | 78 - 124 |
| styrene | 40.0 | 39.8 | | ug/L | | 100 | 78 - 124 |
| Tetrachloroethene | 40.0 | 40.2 | | ug/L | | 101 | 78 - 126 |

TestAmerica Pittsburgh

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

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

Lab Sample ID: LCS 180-179082/3

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

Matrix: Water

Analysis Batch: 179082

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Toluene | 40.0 | 35.8 | | ug/L | | 90 | 80 - 124 |
| trans-1,2-Dichloroethene | 40.0 | 40.0 | | ug/L | | 100 | 78 - 120 |
| trans-1,3-Dichloropropene | 40.0 | 38.4 | | ug/L | | 96 | 63 - 122 |
| Trichloroethene | 40.0 | 37.9 | | ug/L | | 95 | 80 - 120 |
| Trichlorofluoromethane | 40.0 | 47.6 | | ug/L | | 119 | 14 - 150 |
| Vinyl chloride | 40.0 | 39.9 | | ug/L | | 100 | 57 - 128 |
| Xylenes, Total | 80.0 | 80.3 | | ug/L | | 100 | 81 - 121 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 123 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 97 | | 80 - 120 |
| Toluene-d8 (Surr) | 96 | | 80 - 120 |

Lab Sample ID: 180-55572-1 MS

Client Sample ID: MW-01
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 179082

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane | 5.7 | | 40.0 | 46.3 | | ug/L | | 101 | 69 - 134 |
| 1,2,2-Tetrachloroethane | ND | | 40.0 | 36.5 | | ug/L | | 91 | 59 - 136 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40.0 | 37.0 | | ug/L | | 92 | 70 - 131 |
| 1,1,2-Trichloroethane | ND | | 40.0 | 35.6 | | ug/L | | 89 | 75 - 126 |
| 1,1-Dichloroethane | 8.5 | | 40.0 | 46.2 | | ug/L | | 94 | 77 - 122 |
| 1,1-Dichloroethene | 4.3 J | | 40.0 | 40.4 | | ug/L | | 90 | 69 - 127 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40.0 | 36.6 | | ug/L | | 91 | 28 - 150 |
| 1,2-Dichlorobenzene | ND | | 40.0 | 37.1 | | ug/L | | 93 | 75 - 125 |
| 1,2-Dichloroethane | ND | | 40.0 | 38.7 | | ug/L | | 97 | 63 - 140 |
| 1,2-Dichloropropane | ND | | 40.0 | 36.2 | | ug/L | | 91 | 75 - 114 |
| 1,2,4-Trichlorobenzene | ND | | 40.0 | 37.5 | | ug/L | | 94 | 35 - 150 |
| 1,3-Dichlorobenzene | ND | | 40.0 | 38.0 | | ug/L | | 95 | 76 - 125 |
| 1,4-Dichlorobenzene | ND | | 40.0 | 36.5 | | ug/L | | 91 | 76 - 123 |
| 2-Butanone (MEK) | ND | | 40.0 | 23.5 | | ug/L | | 59 | 31 - 139 |
| 2-Hexanone | ND | | 40.0 | 29.1 | | ug/L | | 73 | 35 - 129 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 40.0 | 34.5 | | ug/L | | 86 | 33 - 135 |
| Acetone | ND | | 40.0 | 23.4 | | ug/L | | 58 | 10 - 141 |
| Benzene | ND | | 40.0 | 36.9 | | ug/L | | 92 | 80 - 120 |
| Bromoform | ND | | 40.0 | 34.4 | | ug/L | | 86 | 49 - 137 |
| Bromomethane | ND | | 40.0 | 49.0 | | ug/L | | 123 | 45 - 150 |
| Carbon disulfide | ND | | 40.0 | 38.6 | | ug/L | | 96 | 62 - 126 |
| Carbon tetrachloride | ND | | 40.0 | 39.0 | | ug/L | | 97 | 63 - 139 |
| Chlorobenzene | ND | | 40.0 | 37.6 | | ug/L | | 94 | 83 - 120 |
| Chlorodibromomethane | ND | | 40.0 | 41.1 | | ug/L | | 103 | 64 - 124 |
| Chloroform | ND | | 40.0 | 38.4 | | ug/L | | 96 | 77 - 119 |
| Chloromethane | ND | | 40.0 | 35.4 | | ug/L | | 89 | 49 - 133 |
| 1,1-Dichloroethane | ND F2 F1 | | 40.0 | 65.4 F1 | | ug/L | | 164 | 33 - 150 |
| cis-1,2-Dichloroethene | ND | | 40.0 | 37.2 | | ug/L | | 93 | 82 - 116 |

TestAmerica Pittsburgh

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

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

Lab Sample ID: 180-55572-1 MS
 Matrix: Water
 Analysis Batch: 179082

Client Sample ID: MW-01
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| cis-1,3-Dichloropropene | ND | | 40.0 | 36.5 | | ug/L | | 91 | 74 - 123 |
| Dichlorobromomethane | ND | | 40.0 | 38.5 | | ug/L | | 96 | 71 - 119 |
| Dichlorodifluoromethane | ND | | 40.0 | 37.3 | | ug/L | | 93 | 28 - 140 |
| Ethylbenzene | ND | | 40.0 | 38.0 | | ug/L | | 95 | 79 - 124 |
| 1,2-Dibromoethane | ND | | 40.0 | 35.3 | | ug/L | | 88 | 57 - 124 |
| Cyclohexane | ND | | 40.0 | 37.2 | | ug/L | | 93 | 69 - 124 |
| Isopropylbenzene | ND | | 40.0 | 38.3 | | ug/L | | 96 | 73 - 130 |
| Methyl acetate | ND | | 200 | 175 | | ug/L | | 88 | 34 - 127 |
| Methyl tert-butyl ether | ND | | 40.0 | 36.3 | | ug/L | | 91 | 53 - 122 |
| Methylcyclohexane | ND | | 40.0 | 37.7 | | ug/L | | 94 | 67 - 120 |
| Methylene Chloride | ND | | 40.0 | 32.4 | | ug/L | | 81 | 75 - 120 |
| m-Xylene & p-Xylene | ND | | 40.0 | 37.5 | | ug/L | | 94 | 78 - 124 |
| o-Xylene | ND | | 40.0 | 38.8 | | ug/L | | 97 | 78 - 124 |
| Styrene | ND | | 40.0 | 38.9 | | ug/L | | 97 | 78 - 124 |
| Tetrachloroethene | ND | | 40.0 | 37.9 | | ug/L | | 95 | 78 - 126 |
| Toluene | ND | | 40.0 | 34.6 | | ug/L | | 86 | 80 - 124 |
| trans-1,2-Dichloroethene | ND | | 40.0 | 37.2 | | ug/L | | 93 | 78 - 120 |
| trans-1,3-Dichloropropene | ND | | 40.0 | 38.7 | | ug/L | | 97 | 63 - 122 |
| Trichloroethene | ND | | 40.0 | 36.0 | | ug/L | | 90 | 80 - 120 |
| Trichlorofluoromethane | ND | | 40.0 | 47.1 | | ug/L | | 118 | 14 - 150 |
| vinyl chloride | ND | | 40.0 | 35.2 | | ug/L | | 88 | 57 - 128 |
| Xylenes, Total | ND | | 80.0 | 76.3 | | ug/L | | 95 | 81 - 121 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|------------------------------|--------------|--------------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 123 |
| 4-Bromofluorobenzene (Surr) | 93 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 96 | | 80 - 120 |
| Toluene-d8 (Surr) | 93 | | 80 - 120 |

Lab Sample ID: 180-55572-1 MSD
 Matrix: Water
 Analysis Batch: 179082

Client Sample ID: MW-01
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane | 5.7 | | 40.0 | 46.4 | | ug/L | | 102 | 69 - 134 | 0 | 24 |
| 1,1,2,2-Tetrachloroethane | ND | | 40.0 | 39.5 | | ug/L | | 99 | 59 - 136 | 8 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40.0 | 38.4 | | ug/L | | 96 | 70 - 131 | 4 | 30 |
| 1,1,2-Trichloroethane | ND | | 40.0 | 37.9 | | ug/L | | 95 | 75 - 126 | 6 | 23 |
| 1,1-Dichloroethane | 8.5 | | 40.0 | 48.1 | | ug/L | | 99 | 77 - 122 | 4 | 22 |
| 1,1-Dichloroethene | 4.3 | J | 40.0 | 40.3 | | ug/L | | 90 | 69 - 127 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40.0 | 34.7 | | ug/L | | 87 | 28 - 150 | 5 | 20 |
| 1,2-Dichlorobenzene | ND | | 40.0 | 39.1 | | ug/L | | 98 | 75 - 125 | 5 | 20 |
| 1,2-Dichloroethane | ND | | 40.0 | 38.9 | | ug/L | | 97 | 63 - 140 | 1 | 25 |
| 1,2-Dichloropropane | ND | | 40.0 | 37.2 | | ug/L | | 93 | 75 - 114 | 3 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 40.0 | 40.1 | | ug/L | | 100 | 35 - 150 | 7 | 30 |
| 1,3-Dichlorobenzene | ND | | 40.0 | 38.7 | | ug/L | | 97 | 76 - 125 | 2 | 21 |
| 1,4-Dichlorobenzene | ND | | 40.0 | 39.0 | | ug/L | | 97 | 76 - 123 | 7 | 20 |

TestAmerica Pittsburgh

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

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

Lab Sample ID: 180-55572-1 MSD

Client Sample ID: MW-01

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 179082

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 2-Butanone (MEK) | ND | | 40.0 | 27.4 | | ug/L | | 68 | 31 - 139 | 16 | 35 |
| 2-Hexanone | ND | | 40.0 | 31.4 | | ug/L | | 79 | 35 - 129 | 8 | 24 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 40.0 | 36.8 | | ug/L | | 92 | 33 - 135 | 7 | 29 |
| Acetone | ND | | 40.0 | 23.0 | | ug/L | | 58 | 10 - 141 | 2 | 32 |
| Benzene | ND | | 40.0 | 38.0 | | ug/L | | 95 | 80 - 120 | 3 | 20 |
| Bromofom | ND | | 40.0 | 36.3 | | ug/L | | 91 | 49 - 137 | 6 | 20 |
| Bromomethane | ND | | 40.0 | 39.3 | | ug/L | | 98 | 45 - 150 | 22 | 23 |
| Carbon disulfide | ND | | 40.0 | 38.4 | | ug/L | | 96 | 62 - 126 | 0 | 20 |
| Carbon tetrachloride | ND | | 40.0 | 39.0 | | ug/L | | 97 | 63 - 139 | 0 | 25 |
| Chlorobenzene | ND | | 40.0 | 38.9 | | ug/L | | 97 | 83 - 120 | 3 | 20 |
| Chlorodibromomethane | ND | | 40.0 | 40.7 | | ug/L | | 102 | 64 - 124 | 1 | 20 |
| Chloroform | ND | | 40.0 | 37.6 | | ug/L | | 94 | 77 - 119 | 2 | 20 |
| Chloromethane | ND | | 40.0 | 37.8 | | ug/L | | 94 | 49 - 133 | 6 | 20 |
| Chloroethane | ND | F2 F1 | 40.0 | 44.1 | F2 | ug/L | | 110 | 33 - 150 | 39 | 24 |
| cis-1,2-Dichloroethene | ND | | 40.0 | 38.0 | | ug/L | | 95 | 82 - 116 | 2 | 20 |
| cis-1,3-Dichloropropene | ND | | 40.0 | 36.6 | | ug/L | | 92 | 74 - 123 | 0 | 20 |
| Dichlorobromomethane | ND | | 40.0 | 38.5 | | ug/L | | 96 | 71 - 119 | 0 | 20 |
| Dichlorodifluoromethane | ND | | 40.0 | 37.7 | | ug/L | | 94 | 28 - 140 | 1 | 20 |
| Ethylbenzene | ND | | 40.0 | 39.2 | | ug/L | | 98 | 79 - 124 | 3 | 25 |
| 1,2-Dibromoethane | ND | | 40.0 | 38.0 | | ug/L | | 95 | 57 - 124 | 7 | 20 |
| cyclohexane | ND | | 40.0 | 38.7 | | ug/L | | 97 | 69 - 124 | 4 | 20 |
| isopropylbenzene | ND | | 40.0 | 40.6 | | ug/L | | 102 | 73 - 130 | 6 | 20 |
| Methyl acetate | ND | | 200 | 185 | | ug/L | | 93 | 34 - 127 | 6 | 29 |
| Methyl tert-butyl ether | ND | | 40.0 | 38.7 | | ug/L | | 97 | 53 - 122 | 6 | 20 |
| Methylcyclohexane | ND | | 40.0 | 39.1 | | ug/L | | 98 | 67 - 120 | 4 | 20 |
| Methylene Chloride | ND | | 40.0 | 33.3 | | ug/L | | 83 | 75 - 120 | 3 | 20 |
| m-Xylene & p-Xylene | ND | | 40.0 | 39.7 | | ug/L | | 99 | 78 - 124 | 6 | 24 |
| o-Xylene | ND | | 40.0 | 40.4 | | ug/L | | 101 | 78 - 124 | 4 | 22 |
| Styrene | ND | | 40.0 | 40.5 | | ug/L | | 101 | 78 - 124 | 4 | 22 |
| Tetrachloroethene | ND | | 40.0 | 38.5 | | ug/L | | 96 | 78 - 126 | 2 | 25 |
| Toluene | ND | | 40.0 | 35.4 | | ug/L | | 88 | 80 - 124 | 2 | 20 |
| trans-1,2-Dichloroethene | ND | | 40.0 | 38.4 | | ug/L | | 96 | 78 - 120 | 3 | 20 |
| trans-1,3-Dichloropropene | ND | | 40.0 | 39.5 | | ug/L | | 99 | 63 - 122 | 2 | 20 |
| Trichloroethene | ND | | 40.0 | 36.4 | | ug/L | | 91 | 80 - 120 | 1 | 20 |
| Trichlorofluoromethane | ND | | 40.0 | 47.8 | | ug/L | | 120 | 14 - 150 | 2 | 20 |
| Vinyl chloride | ND | | 40.0 | 37.9 | | ug/L | | 95 | 57 - 128 | 8 | 26 |
| Xylenes, Total | ND | | 80.0 | 80.1 | | ug/L | | 100 | 81 - 121 | 5 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 123 |
| 4-Bromofluorobenzene (Surr) | 100 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 102 | | 80 - 120 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 |

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-179093/1-A
 Matrix: Water
 Analysis Batch: 179602

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 179093

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Silver | ND | | 5.0 | 1.2 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Arsenic | ND | | 10 | 4.8 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Barium | ND | | 200 | 3.2 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Cadmium | 0.200 | J | 5.0 | 0.20 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Chromium | ND | | 5.0 | 0.61 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Lead | ND | | 10 | 3.1 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |
| Selenium | ND | | 10 | 3.8 | ug/L | | 06/14/16 07:53 | 06/17/16 08:56 | 1 |

Lab Sample ID: LCS 180-179093/2-A
 Matrix: Water
 Analysis Batch: 179602

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 179093

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Silver | 50.0 | 52.1 | | ug/L | | 104 | 80 - 120 |
| Arsenic | 500 | 509 | | ug/L | | 102 | 80 - 120 |
| Barium | 2000 | 2020 | | ug/L | | 101 | 80 - 120 |
| Cadmium | 50.0 | 50.4 | | ug/L | | 101 | 80 - 120 |
| Chromium | 200 | 198 | | ug/L | | 99 | 80 - 120 |
| Lead | 500 | 510 | | ug/L | | 102 | 80 - 120 |
| Selenium | 500 | 526 | | ug/L | | 105 | 80 - 120 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-178908/1-A
 Matrix: Water
 Analysis Batch: 179058

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 178908

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.052 | ug/L | | 06/10/16 13:04 | 06/13/16 10:41 | 1 |

Lab Sample ID: LCS 180-178908/2-A
 Matrix: Water
 Analysis Batch: 179058

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 178908

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 2.50 | 2.61 | | ug/L | | 104 | 80 - 120 |

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: 160-962-0002 35th Strouss Associates-GW

TestAmerica Job ID: 180-55572-1

GC/MS VOA

Analysis Batch: 179082

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 180-55572-1 | MW-01 | Total/NA | Water | 8260C | |
| 180-55572-1 MS | MW-01 | Total/NA | Water | 8260C | |
| 180-55572-1 MSD | MW-01 | Total/NA | Water | 8260C | |
| 180-55572-2 | MW-02 | Total/NA | Water | 8260C | |
| 180-55572-3 | MW-03 | Total/NA | Water | 8260C | |
| 180-55572-4 | MW-04 | Total/NA | Water | 8260C | |
| 180-55572-5 | MW-DUP | Total/NA | Water | 8260C | |
| 180-55572-6 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 180-179082/3 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 180-179082/8 | Method Blank | Total/NA | Water | 8260C | |

Metals

Prep Batch: 178908

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-55572-1 | MW-01 | Dissolved | Water | 7470A | |
| 180-55572-2 | MW-02 | Dissolved | Water | 7470A | |
| 180-55572-3 | MW-03 | Dissolved | Water | 7470A | |
| 180-55572-4 | MW-04 | Dissolved | Water | 7470A | |
| 180-55572-5 | MW-DUP | Dissolved | Water | 7470A | |
| LCS 180-178908/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-178908/1-A | Method Blank | Total/NA | Water | 7470A | |

Analysis Batch: 179058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-55572-1 | MW-01 | Dissolved | Water | 7470A | 178908 |
| 180-55572-2 | MW-02 | Dissolved | Water | 7470A | 178908 |
| 180-55572-3 | MW-03 | Dissolved | Water | 7470A | 178908 |
| 180-55572-4 | MW-04 | Dissolved | Water | 7470A | 178908 |
| 180-55572-5 | MW-DUP | Dissolved | Water | 7470A | 178908 |
| LCS 180-178908/2-A | Lab Control Sample | Total/NA | Water | 7470A | 178908 |
| MB 180-178908/1-A | Method Blank | Total/NA | Water | 7470A | 178908 |

Prep Batch: 179093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-55572-1 | MW-01 | Dissolved | Water | 3005A | |
| 180-55572-2 | MW-02 | Dissolved | Water | 3005A | |
| 180-55572-3 | MW-03 | Dissolved | Water | 3005A | |
| 180-55572-4 | MW-04 | Dissolved | Water | 3005A | |
| 180-55572-5 | MW-DUP | Dissolved | Water | 3005A | |
| LCS 180-179093/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 180-179093/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Analysis Batch: 179602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 180-55572-1 | MW-01 | Dissolved | Water | 6010C | 179093 |
| 180-55572-2 | MW-02 | Dissolved | Water | 6010C | 179093 |
| 180-55572-3 | MW-03 | Dissolved | Water | 6010C | 179093 |
| 180-55572-4 | MW-04 | Dissolved | Water | 6010C | 179093 |
| 180-55572-5 | MW-DUP | Dissolved | Water | 6010C | 179093 |

TestAmerica Pittsburgh

Appendix E

1. PROJECT INFORMATION

Project Name: **RIR - 35th Strouss Associates Property**
Date of Review: **11/18/2016 03:36:53 PM**
Project Category: **Development, Other**
Project Area: **6.98 acres**
County(s): **Allegheny**
Township/Municipality(s): **NORTH VERSAILLES**
ZIP Code: **15137**
Quadrangle Name(s): **MC KEESPORT**
Watersheds HUC 8: **Youghiogheny**
Watersheds HUC 12: **Long Run**
Decimal Degrees: **40.368016, -79.782437**
Degrees Minutes Seconds: **40° 22' 4.8588" N, 79° 46' 56.7746" W**

2. SEARCH RESULTS

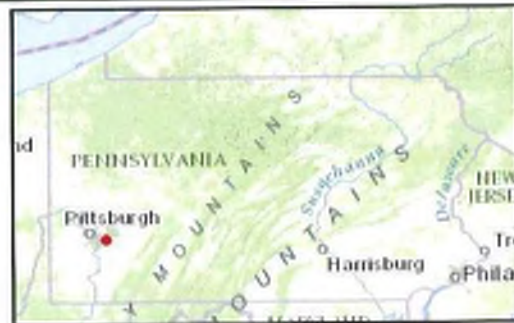
| Agency | Results | Response |
|---|-----------------|----------------------------|
| PA Game Commission | No Known Impact | No Further Review Required |
| PA Department of Conservation and Natural Resources | No Known Impact | No Further Review Required |
| PA Fish and Boat Commission | No Known Impact | No Further Review Required |
| U.S. Fish and Wildlife Service | No Known Impact | No Further Review Required |

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

RIR - 35th Strouss Associates Property



- Project Boundary
- Buffered Project Boundary



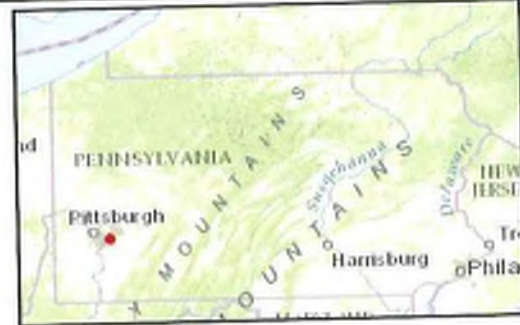
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
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RIR - 35th Strouss Associates Property



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this.
Your answer is: No forests, woodlots or trees will be affected by the project.

Q2: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

APPENDIX F

PENTOXSD DOCUMENTATION

UPSTREAM RMI**StreamStats Version 3.0****Basin Characteristics Ungaged Site Report**

Date: Tues Nov 22, 2016 1:14:51 PM GMT-5

Study Area: Pennsylvania

NAD 1983 Latitude: 40.366 (40 21 58)

NAD 1983 Longitude: -79.785 (-79 47 06)

| Label | Value | Units | Definition |
|------------|-----------|-----------------------|---|
| DRNAREA | 0.19 | square miles | Area that drains to a point on a stream |
| STRMTOT | 0.24 | miles | Total length of mapped streams in basin |
| STRDEN | 1.29 | miles per square mile | Stream Density -- total length of streams divided by drainage area |
| BSLOPD | 7 | degrees | Mean basin slope measured in degrees |
| CENTROXA83 | -151333.2 | NAD 1983 Albers | Basin centroid horizontal (x) location in NAD 1983 Albers |
| CENTROYA83 | 153569.8 | NAD 1983 Albers | Basin centroid horizontal (y) location in NAD 1983 Albers |
| OUTLETXA83 | -151595 | NAD 1983 Albers | Basin outlet horizontal (x) location in NAD 1983 Albers |
| OUTLETYA83 | 153195 | NAD 1983 Albers | Basin outlet horizontal (Y) location in NAD 1983 Albers |
| LONG_OUT | -79.7851 | degrees | Longitude of Basin Outlet |
| BSLOPDRAW | 7.25 | degrees | Mean basin slope, in degrees, raw value unadjusted for bias |
| FOREST | 40 | percent | Percentage of area covered by forest |
| PRECIP | 39 | inches | Mean Annual Precipitation |
| URBAN | 56 | percent | Percentage of basin with urban development |
| GLACIATED | 0 | percent | Percentage of basin area that was historically covered by glaciers |
| ROCKDEP | 3.8 | feet | Depth to rock |
| CARBON | 0 | percent | Percentage of area of carbonate rock |
| STORAGE | 0 | percent | Percentage of area of storage (lakes ponds reservoirs wetlands) |
| ELEV | 1183.1 | feet | Mean Basin Elevation |
| MAXTEMP | 60 | degrees F | Mean annual maximum air temperature over basin area from PRISM 1971-2000 800-m grid |
| DRN | 3.4 | dimensionless | Drainage quality (1=well drained to 7=poorly drained) from dataset at http://water.usgs.gov/GIS/metadata/usgswrd/XML/ussoils.xml |
| IMPNLCD01 | 53 | percent | Average percentage of impervious area determined from NLCD 2001 impervious dataset |

| | | | |
|---------|------|---------|--|
| LC01DEV | 99 | percent | Percentage of land-use from NLCD 2001 classes 21-24 |
| LC11IMP | 54.2 | percent | Average percentage of impervious area determined from NLCD 2011 impervious dataset |
| LC11DEV | 98.5 | percent | Percentage of developed (urban) land from NLCD 2011 classes 21-24 |

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U.S. Department of the Interior | U.S. Geological Survey
URL: http://streamstats.cr.usgs.gov/v3_beta/BCreport.htm
Page Contact Information: [StreamStats Help](#)
Page Last Modified: 01/26/2016 11:44:09 (Web2)

[Streamstats Status](#) [News](#)



StreamStats Version 3.0

Basin Characteristics Ungaged Site Report

DOWNSTREAM RMI

Date: Tues Nov 22, 2016 1:53:17 PM GMT-5

Study Area: Pennsylvania

NAD 1983 Latitude: 40.3376 (40 20 15)

NAD 1983 Longitude: -79.8065 (-79 48 24)

| Label | Value | Units | Definition |
|------------|-----------|-----------------------|---|
| DRNAREA | 4.41 | square miles | Area that drains to a point on a stream |
| STRMTOT | 9.56 | miles | Total length of mapped streams in basin |
| STRDEN | 2.17 | miles per square mile | Stream Density -- total length of streams divided by drainage area |
| BSLOPD | 11.1 | degrees | Mean basin slope measured in degrees |
| CENTROXA83 | -152083 | NAD 1983 Albers | Basin centroid horizontal (x) location in NAD 1983 Albers |
| CENTROYA83 | 152085.8 | NAD 1983 Albers | Basin centroid horizontal (y) location in NAD 1983 Albers |
| OUTLETXA83 | -153485 | NAD 1983 Albers | Basin outlet horizontal (x) location in NAD 1983 Albers |
| OUTLETYA83 | 150075 | NAD 1983 Albers | Basin outlet horizontal (Y) location in NAD 1983 Albers |
| LONG_OUT | -79.80658 | degrees | Longitude of Basin Outlet |
| BSLOPDRAW | 11.34 | degrees | Mean basin slope, in degrees, raw value unadjusted for bias |
| FOREST | 58 | percent | Percentage of area covered by forest |
| PRECIP | 39 | inches | Mean Annual Precipitation |
| URBAN | 36 | percent | Percentage of basin with urban development |
| GLACIATED | 0 | percent | Percentage of basin area that was historically covered by glaciers |
| ROCKDEP | 4 | feet | Depth to rock |
| CARBON | 0 | percent | Percentage of area of carbonate rock |
| STORAGE | 0 | percent | Percentage of area of storage (lakes ponds reservoirs wetlands) |
| ELEV | 1092.8 | feet | Mean Basin Elevation |
| MAXTEMP | 60 | degrees F | Mean annual maximum air temperature over basin area from PRISM 1971-2000 800-m grid |
| DRN | 3.4 | dimensionless | Drainage quality (1=well drained to 7=poorly drained) from dataset at http://water.usgs.gov/GIS/metadata/usgswrd/XML/ussoils.xml |
| IMPNLCD01 | 15 | percent | Average percentage of impervious area determined from NLCD 2001 impervious dataset |

| | | | |
|---------|------|---------|--|
| LC01DEV | 43 | percent | Percentage of land-use from NLCD 2001 classes 21-24 |
| LC11IMP | 15.3 | percent | Average percentage of impervious area determined from NLCD 2011 impervious dataset |
| LC11DEV | 43.8 | percent | Percentage of developed (urban) land from NLCD 2011 classes 21-24 |

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U.S. Department of the Interior | U.S. Geological Survey
URL: http://streamstatsags.cr.usgs.gov/v3_beta/BCreport.htm
Page Contact Information: [StreamStats Help](#)
Page Last Modified: 01/26/2016 11:44:09 (Web1)

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PENTOXSD

Modeling Input Data

| Stream Code | RMI | Elevation (ft) | Drainage Area (sq mi) | Slope | PWS With (mgd) | Apply FC |
|-------------|------|----------------|-----------------------|---------|----------------|-------------------------------------|
| 37462 | 2.77 | 1080.00 | 0.19 | 0.00000 | 0.00 | <input checked="" type="checkbox"/> |

Stream Data

| | LFY (cfsm) | Trib Flow (cfs) | Stream Flow (cfs) | WD Ratio | Rch Width (ft) | Rch Depth (ft) | Rch Velocity (fps) | Rch Trav Time (days) | Tributary | | Stream | | Analysis | |
|-------|------------|-----------------|-------------------|----------|----------------|----------------|--------------------|----------------------|-------------|----|-------------|----|-------------|----|
| | | | | | | | | | Hard (mg/L) | pH | Hard (mg/L) | pH | Hard (mg/L) | pH |
| Q7-10 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 | 0 | 0 | 0 | 0 |
| Qh | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 | 0 | 0 | 0 | 0 |

Discharge Data

| Name | Permit Number | Existing Disc Flow (mgd) | Permitted Disc Flow (mgd) | Design Disc Flow (mgd) | Reserve Factor | AFC PMF | CFC PMF | THH PMF | CRL PMF | Disc Hard (mg/L) | Disc pH |
|-----------------|---------------|--------------------------|---------------------------|------------------------|----------------|---------|---------|---------|---------|------------------|---------|
| Strouss Associa | 0001 | 0.0001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 |

Parameter Data

| Parameter Name | Disc Conc (µg/L) | Trib Conc (µg/L) | Disc Daily CV | Disc Hourly CV | Stream Conc (µg/L) | Stream CV | Fate Coef | FOS | Crit Mod | Max Disc Conc (µg/L) |
|----------------------|------------------|------------------|---------------|----------------|--------------------|-----------|-----------|-----|----------|----------------------|
| 1,1-DICHLOROETHYLENE | 7.6 | 0 | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 1 | 0 |
| ADMIMUM | 15 | 0 | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 1 | 0 |

| Stream Code | RMI | Elevation (ft) | Drainage Area (sq mi) | Slope | PWS With (mgd) | Apply FC |
|-------------|------|----------------|-----------------------|---------|----------------|-------------------------------------|
| 37462 | 0.00 | 820.00 | 4.41 | 0.00000 | 0.00 | <input checked="" type="checkbox"/> |

Stream Data

| LFY | Trib Flow (cfs) | Stream Flow (cfs) | WD Ratio | Rch Width (ft) | Rch Depth (ft) | Rch Velocity (fps) | Rch Trav Time (days) | Tributary | | Stream | | Analysis | |
|-------|-----------------|-------------------|----------|----------------|----------------|--------------------|----------------------|-------------|----|-------------|----|-------------|----|
| | | | | | | | | Hard (mg/L) | pH | Hard (mg/L) | pH | Hard (mg/L) | pH |
| Q7-10 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 | 0 | 0 | 0 | 0 |
| Qh | | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 | 0 | 0 | 0 | 0 |

Discharge Data

| Name | Permit Number | Existing Disc Flow (mgd) | Permitted Disc Flow (mgd) | Design Disc Flow (mgd) | Reserve Factor | AFC PMF | CFC PMF | THH PMF | CRL PMF | Disc Hard (mg/L) | Disc pH |
|------|---------------|--------------------------|---------------------------|------------------------|----------------|---------|---------|---------|---------|------------------|---------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 7 |

Parameter Data

| Parameter Name | Disc Conc (µg/L) | Trib Conc (µg/L) | Disc Daily CV | Disc Hourly CV | Stream Conc (µg/L) | Stream CV | Fate Coef | FOS | Crit Mod | Max Disc Conc (µg/L) |
|----------------------|------------------|------------------|---------------|----------------|--------------------|-----------|-----------|-----|----------|----------------------|
| 1,1-DICHLOROETHYLENE | 0 | 0 | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 1 | 0 |
| CADMIUM | 0 | 0 | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 1 | 0 |

PENTOXSD Analysis Results

Hydrodynamics

| <u>SWP Basin</u> | | <u>Stream Code:</u> | | | <u>Stream Name:</u> | | | | | | |
|----------------------------|----------------------|---------------------|--------------------------|--------------------|---------------------|---------------|---------------|----------|-------------------|---------------------------|--------------|
| 19D | | 37462 | | | JACKS RUN | | | | | | |
| RMI | Stream Flow (cfs) | PWS With (cfs) | Net Stream Flow (cfs) | Disc Flow (cfs) | Reach Slope | Depth (ft) | Width (ft) | WD Ratio | Velocity (fps) | Reach Trav Time (days) | CMT (min) |
| Q7-10 Hydrodynamics | | | | | | | | | | | |
| 2.770 | 0.019 | 0 | 0.019 | 0.00015 | 0.0178 | 0.2736 | 1.9066 | 6.9685 | 0.0367 | 4.6101 | .256 |
| 0.000 | 0.441 | 0 | 0.441 | NA | 0 | 0 | 0 | 0 | 0 | 0 | NA |
| Qh Hydrodynamics | | | | | | | | | | | |
| 2.770 | 0.2326 | 0 | 0.2326 | 0.00015 | 0.0178 | 0.8210 | 1.9066 | 2.3222 | 0.1487 | 1.1385 | .05 |
| 0.000 | 3.6327 | 0 | 3.6327 | NA | 0 | 0 | 0 | 0 | 0 | 0 | NA |

PENTOXSD Analysis Results

Wasteload Allocations

RMI Name Permit Number

2.77 Strouss Associa 0001

AFC

| Q7-10: | CCT (min) | 0.256 | PMF | 1 | Analysis pH | 7 | Analysis Hardness | 100 |
|--|--------------------|-----------|------------------|-----------|-------------|---------------|-------------------|-----|
| Parameter | Stream Conc (µg/L) | Stream CV | Trib Conc (µg/L) | Fate Coef | WQC (µg/L) | WQ Obj (µg/L) | WLA (µg/L) | |
| CADMIUM | 0 | 0 | 0 | 0 | 2.014 | 2.133 | 264.127 | |
| Dissolved WQC. Chemical translator of 0.944 applied. | | | | | | | | |
| 1,1-DICHLOROETHYLENE | 0 | 0 | 0 | 0 | 7500 | 7500 | 928637.7 | |

CFC

| Q7-10: | CCT (min) | 0.256 | PMF | 1 | Analysis pH | 7 | Analysis Hardness | 100 |
|--|--------------------|-----------|------------------|-----------|-------------|---------------|-------------------|-----|
| Parameter | Stream Conc (µg/L) | Stream CV | Trib Conc (µg/L) | Fate Coef | WQC (µg/L) | WQ Obj (µg/L) | WLA (µg/L) | |
| CADMIUM | 0 | 0 | 0 | 0 | 0.246 | 0.271 | 33.508 | |
| Dissolved WQC. Chemical translator of 0.909 applied. | | | | | | | | |
| 1,1-DICHLOROETHYLENE | 0 | 0 | 0 | 0 | 1500 | 1500 | 185727.5 | |

THH

| Q7-10: | CCT (min) | 0.256 | PMF | NA | Analysis pH | NA | Analysis Hardness | NA |
|----------------------|--------------------|-----------|------------------|-----------|-------------|---------------|-------------------|----|
| Parameter | Stream Conc (µg/L) | Stream CV | Trib Conc (µg/L) | Fate Coef | WQC (µg/L) | WQ Obj (µg/L) | WLA (µg/L) | |
| CADMIUM | 0 | 0 | 0 | 0 | NA | NA | NA | |
| 1,1-DICHLOROETHYLENE | 0 | 0 | 0 | 0 | 33 | 33 | 4086.006 | |

CRL

| Qh: | CCT (min) | 0.05 | PMF | 1 | Analysis pH | NA | Analysis Hardness | NA |
|----------------------|--------------------|-----------|------------------|-----------|-------------|---------------|-------------------|----|
| Parameter | Stream Conc (µg/L) | Stream CV | Trib Conc (µg/L) | Fate Coef | WQC (µg/L) | WQ Obj (µg/L) | WLA (µg/L) | |
| CADMIUM | 0 | 0 | 0 | 0 | NA | NA | NA | |
| 1,1-DICHLOROETHYLENE | 0 | 0 | 0 | 0 | NA | NA | NA | |

PENTOXSD Analysis Results

Recommended Effluent Limitations

| | | |
|------------------|---------------------|---------------------|
| <u>SWP Basin</u> | <u>Stream Code:</u> | <u>Stream Name:</u> |
| 19D | 37482 | JACKS RUN |

| | | | |
|------|-----------------|---------------|-----------------|
| RMI | Name | Permit Number | Disc Flow (mgd) |
| 2.77 | Strouss Associa | 0001 | 0.0001 |

| Parameter | Effluent Limit (µg/L) | Governing Criterion | Max. Daily Limit (µg/L) | Most Stringent | |
|----------------------|-----------------------|---------------------|-------------------------|----------------|-----------------|
| | | | | WQBEL (µg/L) | WQBEL Criterion |
| 1,1-DICHLOROETHYLENE | 7.6 | INPUT | 11.857 | 4086.006 | THH |
| CADMIUM | 15 | INPUT | 23.402 | 33.508 | CFC |

Speedway



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS**

App Version: 2.0.1

Storage Tank Narrative Report

| | | | |
|----------------------------|-----------------------------------|---------------------------|---------------------|
| Inspection Type | RTPT - Routine/Partial Inspection | Facility ID | 02-34090 |
| Client ID/Name | 133896/SPEEDWAY LLC | Facility Name | SPEEDWAY 2906 |
| Address 1 | 1700 LINCOLN HWY | Address 2 | |
| City | NORTH VERSAILLES | State/ZIP Code | PA/15137-2553 |
| Municipality | North Versailles Township | County | Allegheny |
| Arrival Date / Time | 02/20/2020 08:30 AM | Depart Date / Time | 02/20/2020 09:30 AM |
| Inspection ID | 3002722 | Enforcement ID | |
| Inspection Result | NOVIO - No Violations Noted | CTS Number | |

Inspector Details

| | | | | | |
|---------------------------|-------------|-------------------------|----------------|--------------|----------------|
| DEP Inspector Name | SHARON CARR | Telephone Number | (412) 442-4101 | Email | shacarr@pa.gov |
|---------------------------|-------------|-------------------------|----------------|--------------|----------------|

Tank Summary

| | 001 | 002 | 003 | 004 |
|--|-----|-----|-----|-----|
| Operator Training and Emergency Procedures | C | C | C | C |
| Piping Release Detection | C | C | C | C |
| Tank Release Detection | C | C | C | C |

= Action Required, = Not Inspected, C = Compliant

Narrative

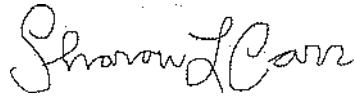
Department inspector, Sharon Carr, conducted a routine partial inspection. Release detection records and operator training documentation were requested. General manager, Joe Belan, provided available records.

Facility has class A/B/C operator training certificates available. Joe is a trained class C operator and has training within the year. Joe identified the location of the emergency procedures and emergency shut off buttons. Joe also verbally demonstrated knowledge of the emergency procedure process.

Facility uses interstitial monitoring for release detection. Printed a sensor status report from the tank gauge. All sensors are normal. Sensors are located in the tank interstices, tank top sumps, and dispenser sumps. Release detection records could not be located on site but were provided via email. Facility has passing sensor status reports for the past twelve months.

The Department requests no additional documentation at this time.

Signatures

| | | | |
|---------------------------|---------------------|--------------------------------|---|
| DEP Inspector Name | SHARON CARR | DEP Inspector Signature |  |
| Date | 02/20/2020 09:30 AM | Title | WTR QLTY SPCST |

Signature by the person interviewed does not necessarily imply concurrence with the findings on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

| | |
|----------------------------|--------------------------------|
| No Signature Reason | Inspection completed off site. |
|----------------------------|--------------------------------|

Inspection Images

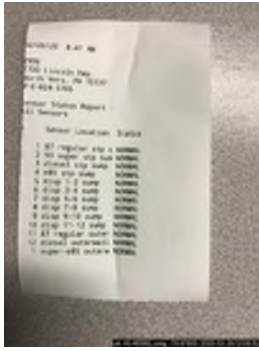


Photo # 1
Sensor status report.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS
STORAGE TANK DIVISION

FOR DEP USE ONLY
Reviewer _____
Date _____
Entered by _____
Date _____

**UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION**

FACILITY INFORMATION
ID Number 02-34090
Name Speedway 2806
Location 1700 Lincoln Hwy
Address North Versailles, PA 15137-2553
Municipality North Versailles Twp
Representative Present During Inspection
Name Staci Hough
Phone 412-824-3765
 Owner Operator Employee None

CERTIFIED INSPECTOR
Name Aaron Koehler
ID No. 5233
Phone 610 218 7203
E-mail ao.kubinsky@Crompec.com
Date of First Site Visit (month/day/year) 10-12-2018
OWNER (must be a person)
Name Brandie Lehman
OPERATOR (if different than owner)
Name _____

- Financial Responsibility discussed with owner** Yes No
 • Provided by USTIF. Owner must have deductibles available as provided in Subchapter H of the regulations.
 • Required of all UST owners except state agencies.
Suspected or confirmed contamination observed Yes (notify proper region within 48 hours) No
Improperly closed or unregistered tanks present Yes (provide comment) No
Written instructions/notification procedures are available/posted Yes No
Amended registration form required for (check all that apply):
 Added tanks Change in substance stored
 Closed tanks Change of operational status (in or out of service)
 Change in tank size Change of owner

Inspection summary.
Indicate the compliance status of each item below using the following codes: N = Noncompliant C = Compliant

| | Tank No. <u>C01</u> | Tank No. <u>C02</u> | Tank No. <u>C03</u> | Tank No. <u>C04</u> | Tank No. _____ |
|--|---------------------|---------------------|---------------------|---------------------|----------------|
| Tank Construction and Corrosion Protection | C | C | C | C | |
| Piping Construction and Corrosion Protection | C | C | C | C | |
| Spill Prevention | N | N | N | N | |
| Overfill Prevention | C | C | C | C | |
| Registration Certificate Display | C | C | C | C | |
| Tank Release Detection | C | C | C | C | |
| Piping Release Detection | C | C | C | C | |
| Monthly sump checks | C | C | C | C | |

I, the DEP Certified Inspector (IUM), have inspected the entire above referenced facility including examining manways, sumps, monitoring wells and dispensers. Based on my personal observation of the facility and documentation provided by the owner, I certify under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided by me is true, accurate and complete to the best of my knowledge and belief.

Certified Inspector's Signature _____ Date 10-12-2018

As the representative of the owner or operator, I have reviewed the completed inspection report. I certify under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided by me is true, accurate and complete to the best of my knowledge and belief.

Signature Brandie Lehman Title Manager, Environmental Compliance Date 10/30/18

Original: Regional Office - Norristown, Wilkes Barre, Harrisburg, Williamsport, Pittsburgh, or Meadville
 Copy: Owner
 Copy: DEP, Division of Storage Tanks, P.O. Box 8763, Harrisburg, PA 17105-8763
 Copy: Inspector

**UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION**

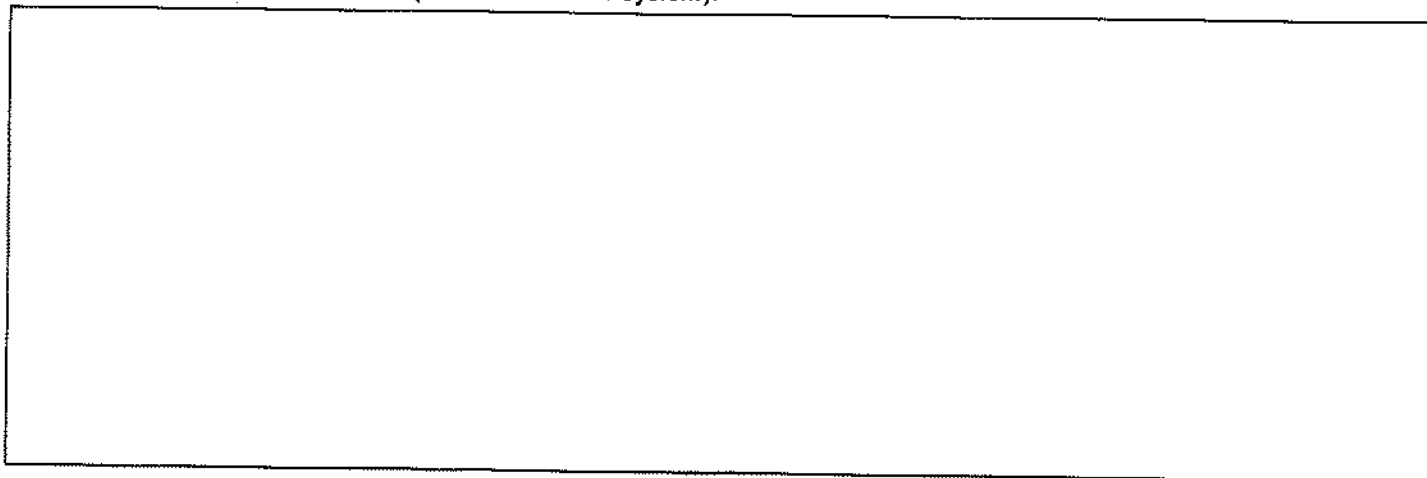
Facility Name Speedway 2906 Date 10-12-2018 Facility ID 02 - 34050

I. **TANK SYSTEM INFORMATION.** For each tank, fill in the required information and codes from the following list. Where multiple codes are allowed and used for a specific tank component, describe the arrangement in the COMMENTS section. (See FOI form instructions for details.)

| | Tank No. 001 | Tank No. 002 | Tank No. 003 | Tank No. 004 | Tank No. _____ | DEP Use |
|--|--------------|--------------|--------------|--------------|----------------|---------|
| 1. Tank capacity (name plate gallons) | 20,000 | 8,000 | 4,000 | 12,000 | | |
| 2. Substance currently stored | GAS | GAS | GAS/OIL | DSL | | |
| 3. Installation date (mm/yyyy) | 12-2014 | 12-2014 | 12-2014 | 12-2014 | | |
| 4. This drone tank is manifolded to tank number | - | - | - | - | | |
| 5. Product level, in inches, at time of inspection | 73.75 | 40.00 | 40.25 | 27.00 | | |
| 6. Total secondary containment on this tank system | Y | Y | Y | Y | | (18) |
| 7. Tank construction and corrosion protection | F | F | F | F | | (1) |
| 8. Main piping construction and corrosion protection | K | K | K | K | | (2) |
| 9a. Number of tank top sumps ‡ | 1 | 1 | 1 | 1 | | |
| 9b. Number of tank top sumps tested tight ‡ | 1 | 1 | 1 | 1 | | (21) |
| 9c. Spill containment tested tight | Y | Y | Y | Y | | (21) |
| 10a. Number of transition sumps | 0 | 0 | 0 | 0 | | |
| 10b. Number of transition sumps tested tight | 0 | 0 | 0 | 0 | | (21) |
| 11a. Number of connected dispensers | 6 | 6 | 1 | 2 | | |
| 11b. Number of connected dispensers with pans | 6 | 6 | 1 | 2 | | |
| 11c. Number of dispenser pans tested tight | 6 | 6 | 1 | 2 | | (22) |
| 12a. Piping flexible joints/connectors construction at tank | H | H | H | H | | (PFLX) |
| 12b. Piping flexible joints/connectors construction at dispenser | H | H | H | H | | (PFLX) |
| 13. Pump (product dispensing) system | C | C | C | C | | (4) |
| 14. Spill protection | Y | Y | Y | Y | | (6) |
| 15. Overfill type | S | S | S | S | | (7) |
| 16. Current registration certificate display | Y | Y | Y | Y | | (8) |
| 17. Stage I vapor recovery | B | B | B | N | | (19) |
| 18. Stage II vapor recovery | N | N | N | N | | (20) |
| Evaluate the tank system release detection methods carefully before filling in the following rows. | | | | | | |
| 19. Tank release detection | H | H | H | H | | (12) |
| 20. Piping small release detection (0.2 gph monthly or 0.1 gph annually) | D | D | D | D | | (5) |
| 21. Pressure (line 13 is C or D) piping line leak detector (LLD function) | K | K | K | K | | (5) |
| 22. LLD function includes a positive turbine pump shutoff | Y | Y | Y | Y | | (23) |

‡ at tank penetrations that have pipe that routinely contains or conveys product.

Site drawing / manifold schematic (not master-drone system):



Original: Regional Office – Norristown, Wilkes Barre, Harrisburg, Williamsport, Pittsburgh, or Meadville
 Copy: Owner
 Copy: DEP, Division of Storage Tanks, P.O. Box 8763, Harrisburg, PA 17105-8763
 Copy: Inspector

Tank System Component Codes

- 6. Total secondary containment**
 Y Yes
 N No
- 7. Tank construction**
 A Single-wall steel, unprotected
 B Single-wall, galvanic anodes
 C Impressed current protection
 D Double-wall steel, unprotected
 E Single-wall fiberglass (FRP)
 F Double-wall fiberglass (FRP)
 G Steel with plastic or fiberglass jacket
 (includes double-wall Act 100)
 H Steel with FRP coating (Act 100 or equivalent)
 I Steel with lined interior
 J Concrete
 N Unknown
 O Double-wall, steel primary, galvanic anodes
 P Cathodically protected and lined
 99 Other (must provide written comment)
- 8. Main piping construction**
 A Bare steel (including only wrapped or coated)
 B Cathodically protected, metallic
 C Copper, unprotected
 D Fiberglass or rigid non-metallic
 E Single-wall, flexible non-metallic
 F Unknown
 G No dispensing piping (most used oil tanks)
 I Double-wall, metallic primary
 J Double-wall rigid (FRP) primary
 K Double-wall flexible primary
 99 Other (must provide written comment)
- 9c. Spill containment tested tight**
 Y Yes
 N No
- 12. Piping flexible joints/connectors**
 A Unprotected metallic component(s) (including only wrapped or coated)
 B Cathodically protected, metallic
 C Flexible coupling with protected metallic ends
 F Unknown
 I Completely inside a containment sump, secondary pipe or liner
 M Completely jacketed with sealed boot
 N NO jacket, not in contact with the ground
 X None
 99 Other (must provide written comment)
- 13. Pump (delivery) system**
 A Suction, check valve at pump or siphon bar only
 B Suction, check valve at tank
 C Pressure
 D Gravity flow to dispenser/pump
 E None
- 14. Spill protection**
 Y Spill containment
 E Filled in less than 25 gallon increments
 N None present or needs repair
- 15. Overfill type (if code S or B, ensure compatible with delivery method)**
 S Drop tube shut off device
 A Overfill alarm (provide description and location in comment section)
 B Ball float valve
 E Filled in less than 25 gallon increments
 N None present or not usable
- 16. Current registration certificate display**
 Y Properly displayed
 N Not displayed
- 17. Stage I vapor recovery**
 A Coaxial
 B 2 port
 N Not complete or none
- 18. Stage II vapor recovery**
 A Complete balance system
 B Complete assist system
 C UG piping only; not complete
 N None of the above
- 19. Tank release detection**
 C Manual Tank Gauging (36 Hour) and Tank Tightness Testing (TTT) every 5 years
 D Statistical Inventory Reconciliation (SIR)
 E Certified Automatic Tank Gauge (0.2 gph Leak Test)
 F Manual Tank Gauging (36 Hour), no TTT
 G44 Manual Tank Gauging, 44 Hours
 G58 Manual Tank Gauging, 58 Hours
 H Interstitial Monitoring (2 Walls)
 J Groundwater Monitoring
 K Vapor Monitoring
 N None
 O Exempt (must provide written comment)
- 20. Piping small release detection (0.2/0.1 gph)**
 B Annual Line Tightness Test (pressure)
 C Line Tightness Test - 3 years (suction)
 D Interstitial Monitoring (monthly – includes visual checking)
 E Groundwater Monitoring
 F Vapor Monitoring
 H None
 I Exempt (must provide written comment)
 J Statistical Inventory Reconciliation (SIR)
 K Electronic Line Leak Detector (0.1 or 0.2 gph test)
- 21. Piping line leak detection (3 gph within 1 hr.)**
 A Mechanical Line Leak Detector (incl. test)
 H None
 K Electronic Line Leak Detector (3 gph test)
 L Continuous Interstitial Monitoring with alarm or pump shut off
- 22. Positive Turbine pump shutoff**
 Y Yes – present and tested
 P Present
 N Not present

UNDERGROUND STORAGE TANK FACILITY OPERATIONS INSPECTION

Facility Name Speedway 2006 Date 10-12-2018 Facility ID 02 - 34090

II. Release Detection Reference

- Records may be located at the facility or a readily available alternate site.
The records include all of the information listed below for chosen release detection methods.
The inspector has actually seen the records.
A test with an inconclusive result or failure is an indication of a (suspected) product release.

Tank Tank Tank Tank Tank System System System System System

Instructions: Check the box to indicate that a criterion has been met. Circle the box to indicate that a criterion has not been met. Circle with "N/A" when a criterion is not applicable (provide comment).

Automatic Tank Gauging: (Tank only - code E)

ATG manufacturer: ATG model:

Does the automatic tank gauge perform continuous in-tank release detection? Yes, No
valid monthly leak test conducted and documented
manufacturer's certification of ability to detect 0.2 gph release is available
probes and gauge software certified for manifolded tank systems
when not specifically certified, the siphon must be broken to properly test
maintenance records, for the last year, including calibration, preventative and repair equipment is operational

Manual Tank Gauging: (Tank only - code C, F, G44 or G58)

tank capacity is 2,000 gallons or less
tank installed before 11/10/2007
performed weekly
1/8th inch accuracy stick readings
average 2 stick readings before and after test
test length appropriate for each tank
36 hours minimum
44 hours, 551-1000 gallons, 64" diameter
58 hours, 551-1000 gallons, 48" diameter
variation is within standard (both weekly and monthly)

Precision Tightness Test (TTT): (Tank only - code C)

method used (after 10/11/1994):

date of last test: result:
complete documentation of tightness test available
performed by UTT certified installer (after 9/28/1996)
manufacturer's certification of ability to detect 0.1 gph release is available

Interstitial Monitoring: (Tank code H; describe monitoring equipment in comments)

interstitial area monitored monthly (required for tanks installed after 11/20/2007)
interstitial sensors properly placed (per manufacturer's instructions)
monitoring wells (secondary barrier) or ports are clearly marked and secured
maintenance records, for the last year, including preventative and repair equipment manufacturer's performance claims are available
secondary barrier is compatible with and impermeable to the stored substance

Statistical Inventory Reconciliation: (Tank code D and/or Piping code J)

test vendor: version:
manufacturer's certification of ability to detect 0.2 gph release is available
data is collected according to the test vendor's instructions
analysis completed monthly and valid results supplied to owner/operator within 20 days
valid reports include calculated leak rate, minimum detectible leak rate, leak threshold, probability of detection and probability of false alarm
suspected releases properly investigated within 7 days of inconclusive or failed report to confirm or deny the occurrence of a release

Original: Regional Office - Norristown, Wilkes Barre, Harrisburg, Williamsport, Pittsburgh, or Meadville
Copy: Owner
Copy: DEP, Division of Storage Tanks, P.O. Box 8763, Harrisburg, PA 17105-8763
Copy: Inspector

**UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION**

Facility Name Speedway 2906 Date 10-12-2018 Facility ID 02 - 34090

II. RELEASE DETECTION REFERENCE (continued)

Tank System C01 Tank System C02 Tank System C03 Tank System C04 Tank System

*Instructions: Check the box to indicate that a criterion has been met.
Circle the box to indicate that a criterion has not been met.
Circle with "N/A" when a criterion is not applicable (provide comment).*

Groundwater or Vapor Monitoring: (Tank code J or K and/or Piping code E or F; describe well locations and monitoring equipment in comments)

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | wells are located according to site evaluation; <u>attach page with evaluator authentication to the inspection report</u> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | wells are properly installed in accordance with site evaluation and regulations |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | wells are monitored and results recorded monthly in accordance with site evaluation |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | monitoring wells are marked and secured |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | fill material is sufficiently porous to allow expeditious detection at the monitoring wells |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | substance stored meets regulatory requirements for type of monitoring |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | equipment manufacturer's performance claims are available |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | equipment maintenance records, for the last year, including calibration, preventative and repair |

Groundwater monitoring:

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | monitoring devices can detect 1/8 inch of product or less on water |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | groundwater is within 20 feet of surface grade |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | wells are sealed from ground surface to the top of the filter pack |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | casing is properly slotted: allows entry of product during all groundwater conditions |

Vapor Monitoring:

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | the monitoring device is not rendered inoperative by moisture |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | background contamination will not interfere with vapor monitoring |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | vapor monitors will detect increases in concentrations of stored substance |

Interstitial Monitoring: (Piping code D and/or L; describe monitoring equipment in comments)

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | interstitial area monitored monthly (required for all totally-contained pressurized piping systems) |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | secondary enters sump and allows a release to be detected |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | interstitial sensors properly placed (per manufacturer's instructions) |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | monitoring wells or ports (when used) are clearly marked and secured |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | maintenance records, for the last year, including preventative and repair |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | equipment manufacturer's performance claims are available |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | secondary barrier (pipe) is compatible with and impermeable to the stored substance |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | (Code L only) continuous monitoring used as line leak detector (gravity or pressurized piping) – capable of detecting 3.0 gph release within 1 hour |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | (Code L only) system tested for operability within the last year |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | (Code L only) monthly "sensor status" (or equivalent) records available |

Sumps Checked Monthly

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | monthly sump checks for the last 12 months documented |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | tank top sumps dry and clean |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | transition sumps dry and clean |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | dispenser pans/sumps dry and clean |

Exempt Suction System: (SUCTION piping only – code I)

NOTE: No further release detection required on piping meeting all these criteria.

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | the tank top is lower than the suction pump inlet |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | the below grade piping slopes uniformly back to the tank |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | there is no more than one check valve in the piping |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | the check valve is located close to or inside the suction pump |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | compliance with above specifications can be readily determined; describe in comments |

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 Copy: DEP, Division of Storage Tanks, P.O. Box 8763, Harrisburg, PA 17105-8763
 Copy: Inspector

**UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION**

Facility Name Speedway 2906 Date 10-17-2018 Facility ID 02 - 34090

II. RELEASE DETECTION REFERENCE (continued)

Tank Tank Tank Tank Tank
System System System System System
01 02 03 04

Instructions: Check the box to indicate that a criterion has been met.
Circle the box to indicate that a criterion has not been met.
Circle with "N/A" when a criterion is not applicable (provide comment).

Piping Tightness (Line) Testing: (Piping only – code B or C)

test vendor: _____ version: _____
date of last test: _____ result: _____

- test certification of ability to detect 0.1 gph release at 1.5 times operating pressure is available
- performed by UTT certified installer (after 11/10/2008)
- test conducted at proper frequency
 - conducted annually for **pressurized** piping without monthly monitoring
 - conducted every 3 years for **suction** piping not meeting code I requirements
- if test device permanently installed, maintenance records, for the last year, including calibration, preventative and repair

Mechanical Line Leak Detector: (PRESSURIZED Piping only – code A)

manufacturer: _____ model: _____
date last tested: _____ result: _____

- certification of ability to detect a release of 3 gph at 10 psig within 1 hour is available
- operational test of leak detector according to manufacturer's instructions in last 12 months
- maintenance records, in addition to the annual test, for last year, including calibration, preventative and repair

Electronic Line Leak Detector: (PRESSURIZED Piping only – code K)

manufacturer: Voder Post model: PLD 818490
date of last 3gph test: 10-17-2018 result: PASS

- self checking or system tested for operability within the last year
- certification of ability to detect a release of 3 gph at 10 psig within 1 hour is available
- maintenance records, in addition to annual test, for last year, including calibration, preventative and repair
- continuously monitors piping

Is the electronic leak detector performing the "monthly" monitoring function? Yes, No If yes:

date of last 0.2gph test: _____ result: _____
 third-party certification of ability to detect 0.2 gph release is available
 documentation of monthly test available for last year

Is the electronic leak detector performing the "annual" monitoring function? Yes, No If yes:

date of last 0.1gph test: _____ result: _____
 third-party certification of ability to detect 0.1 gph release is available

IUM Release Detection Record Review: (All release detection codes)

- An empty tank (less than 1" of product/sludge) or a tank supplying an emergency generator only is not required to perform release detection. Indicate date emptied or that it is an emergency generator tank in comments.
- Recently installed tank systems must begin performing release detection immediately after receiving product. Indicate date of first product receipt in comments.

- tank release detection records for the last 12 months the system contained product are available
- tank release detection records are valid and passing
- piping release detection records for the last 12 months the system contained product are available
- piping release detection records are valid and passing

Original: Regional Office – Norristown, Wilkes Barre, Harrisburg, Williamsport, Pittsburgh, or Meadville
Copy: Owner
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Copy: Inspector

UNDERGROUND STORAGE TANK FACILITY OPERATIONS INSPECTION

Facility Name Speedway 2906 Date 10-12-2018 Facility ID 02 - 34090

III. CORROSION PROTECTION COMPLIANCE CRITERIA

Tank Tank Tank Tank Tank System System System System System C01 C02 C03 C04

Instructions: Check the box to indicate that a criterion has been met. Circle the box to indicate that a criterion has not been met. Circle with "N/A" when a criterion is not applicable (provide comment).

Lined Tanks: (Tank only - code I)

Grid of checkboxes for Lined Tanks

tank inspected and lined according to national standard date lined: tank initially inspected 10 years after lining and every 5 years thereafter date(s) inspected:

Galvanic and Impressed Cathodic Protection: (Tank code B, C, O or P and/or Piping)

Grid of checkboxes for Galvanic and Impressed Cathodic Protection

tank structure to soil potential greater than 0.85 volts, or meets other nationally recognized protection standard: specify: potential on tank current monitoring (date) potential on tank previously monitored (date)

Grid of checkboxes for pipe/flex structure

pipe/flex structure to soil potential greater than 0.85 volts, or meets other nationally recognized protection standard: specify: potential on pipe/flex current monitoring (date) potential on pipe/flex previously monitored (date)

Impressed Current Design and Rectifier Output: (Tank code C or P and/or Piping)

Grid of checkboxes for Impressed Current Design and Rectifier Output

system designed by a corrosion expert system is turned on and functioning within design limits documentation of last three amp (plus volt and runtime when meters available) readings, recorded at least once every 60 days: most recent: volts: amps: runtime: date: 60 days prior: volts: amps: runtime: date: 120 days prior: volts: amps: runtime: date:

If Cathodic Protection or supplemental anodes were added to an existing tank system, fill in the following (Information is Required for Compliance):

Date assessed: Date installed: Tank Shell Assessment Method:

IV. Operator Training

- list of trained operators designates a class A operator; includes their training certification list of trained operators designates a class B operator; includes their training certification list of trained operators designates class C operator(s); date of initial training or last refresher is within the previous 12 months written instructions and notification procedures are readily available for class C operators at retail facilities; are posted in a location visible to dispenser operators at other facilities

DESCRIBE INFORMAL TRAINING PROVIDED FOR OWNER, CLASS A AND/OR CLASS B OPERATORS - see instructions.

A/B-Brand; Lehman by P.A.S.S. on 8-13-2018 Cert # 135496

UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION

Facility Name Speedway 2906 Date 10-17-2018 Facility ID 02 - 34090

IUM checked for water in tank(s) and sump(s) - results below

V. COMMENTS INCLUDING ACTIONS TO BRING INTO COMPLIANCE (Attach additional sheets where necessary)
See instructions


- IIR - Interstitial monitoring by V/R TIS-450 sensors. Last 12 months passing data provided.
- P/R - Interstitial monitoring w/ V/R piping sump sensors + electronic leak detectors w/ positive shutdown for 3pph leak.
- Sump checks - All piping containment sensor liquid status reports provided for last 12 months.
- Spill prevention - All fill spill containment almost full w/ water-fuel mixture. Renewed liquid from all fill spill containment.
- Drop tube shutoffs installed for overflow.
- * TANKS 002 + 003 are compartment type w/ common interstice.
- * No modification reports provided for inspection.

Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA 19462

Speedway
Phone: (610) 278-7203
FAX: 610-278-7621

1700 Lincoln Hwy
 North Versailles, PA 15137
State ID: 0

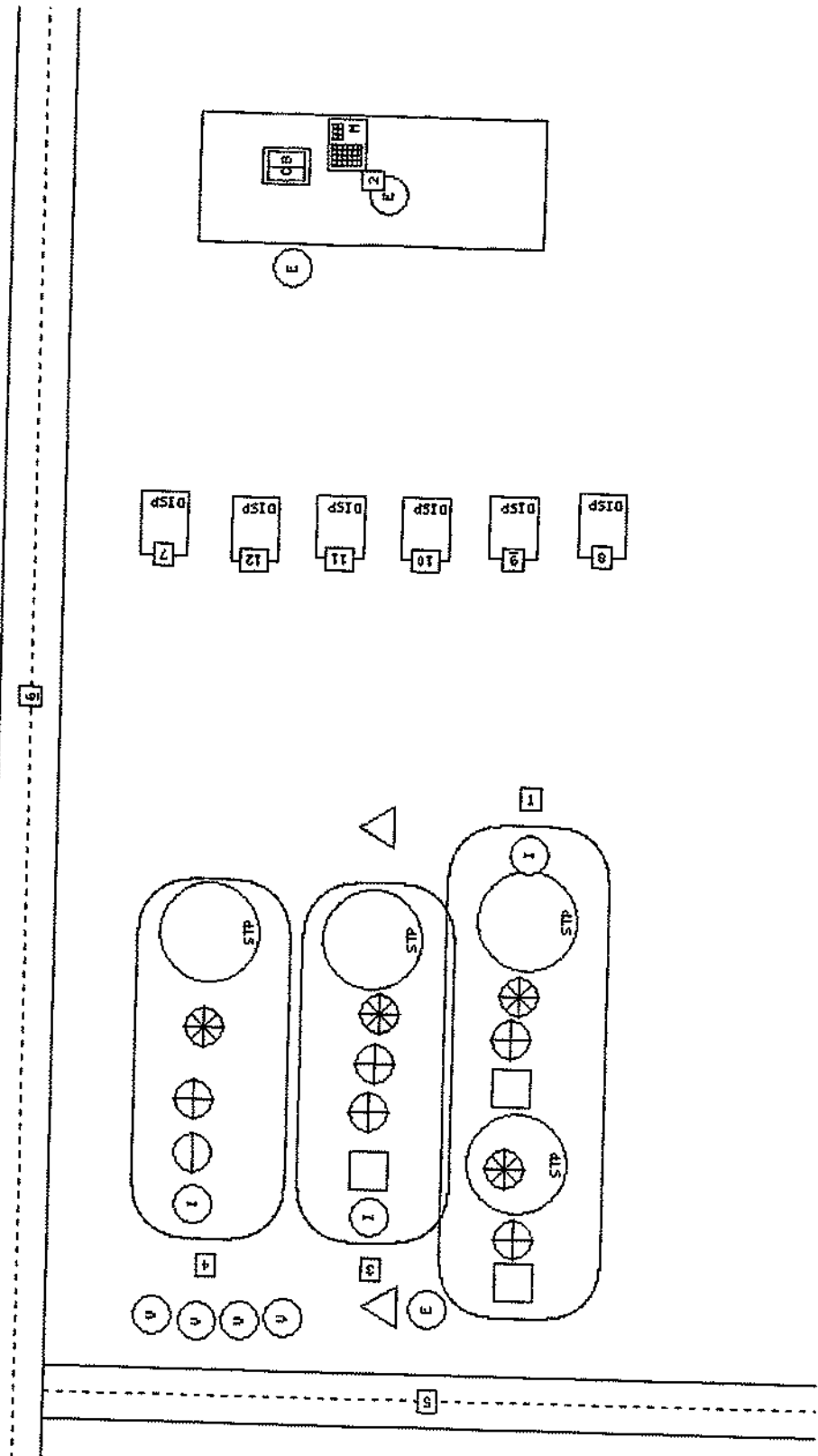
Facility/Agency Copy
 Site #2906 / WO #534209
 Fri Oct 12th, 2018



CROMPCO

Date: 2018-10-12
Work Order #: 534209
Location #: 2906

| | | | | | | |
|-------------|----------------|-----------------|----------------------|---------------------|------------------|------------------|
| Remote Fill | ATG | Road | Fixed Reference Cell | Circuit Breaker | Vent | Overfill Alarm |
| Dry Brake | Emergency Stop | Block | Stage 1 w/ Extractor | Intermittent | Containment Sump | Dispenser |
| | Riser | Fill | CP Test Station | Temp Well Installed | Monitor | Rectifier |
| | Anode | STP | Flapper Direction | Compass | Well | Drop Tank |
| | Extractor | CP Junction Box | Tank | Manway | DW Fill | Remote Dry Brake |



Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA 19462

Speedway
Phone: (610) 278-7203
FAX: 610-278-7621

1700 Lincoln Hwy
North Versailles, PA 15137
State ID: 0

Facility/Agency Copy
Site #2906 / WO #534209
Fri Oct 12th, 2018

Site Diagram Labels

- 1: Tank - e 85 4021k/prem 7796k 92 in dw dry fg
- 2: Block - speedway
- 3: Tank - reg 19951 k 120 in dw dry fg
- 4: Tank - diesel 92 in 11595 k dw dry fg
- 5: Road - luehm ave
- 6: Road - lincoln hwy
- 7: Dispenser - 11/12 gas,diesel
- 8: Dispenser - 1.2 gas and diesel
- 9: Dispenser - 3/4
- 10: Dispenser - 5/6
- 11: Dispenser - 7/8
- 12: Dispenser - 9/10 gas/e85

Appendix D

EDR Report

EDR Radius Map Report with GeoCheck
Old Jacks Run Road to PA 48

US 30 Corridor - Old Jacks Run Road to PA 48

15000 Route 30

Irwin, PA 15642

Inquiry Number: 5771312.2s

August 30, 2019

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

15000 ROUTE 30
IRWIN, PA 15642

COORDINATES

Latitude (North): 40.3623590 - 40° 21' 44.49"
Longitude (West): 79.7721990 - 79° 46' 19.91"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 604252.7
UTM Y (Meters): 4468489.5
Elevation: 1136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5950753 MCKEESPORT, PA
Version Date: 2013

North Map: 5950729 BRADDOCK, PA
Version Date: 2013

Northeast Map: 5950755 MURRYSVILLE, PA
Version Date: 2013

Southeast Map: 5950747 IRWIN, PA
Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150914, 20150924
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
15000 ROUTE 30
IRWIN, PA 15642

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---------------------|----------------------|----------------------|-----------------------------|--------------------|----------------------------|
| A1 | MAROADI TRANSF & STO | 1801 LINCOLN HWY | PA ARCHIVE UST | Higher | 1 ft. |
| A2 | MAROADI TRANSFER | 1801 LINCOLN HWY | RCRA-SQG | Higher | 1 ft. |
| 3 | U HAUL CTR LINCOLN H | 1725 LINCOLN HWY | PA ARCHIVE UST | Higher | 1 ft. |
| B4 | HOME DEPOT USA INC H | 102 ALPI DR | RCRA-CESQG | Higher | 1 ft. |
| B5 | BOBS ESSO | 1815 LINCOLN HWY | EDR Hist Auto | Higher | 1 ft. |
| A6 | MONRO MUFFLER BRAKE | 1813 LINCOLN HGWY | RCRA-SQG | Higher | 1 ft. |
| C7 | HI-WAY CLEANERS & TU | 14800 RTE 30 | EDR Hist Cleaner | Higher | 1 ft. |
| 8 | PENN LINCOLN MEM PAR | 14679 RTE 30 | PA ARCHIVE UST | Higher | 1 ft. |
| 9 | ELIZABETH HATA INTL | 14559 RT 30 | RCRA-CESQG, FINDS, ECHO | Higher | 1 ft. |
| C10 | HI-WAY CLEANERS & TU | 14800 RT 30 | RCRA-SQG, FINDS, ECHO | Higher | 1 ft. |
| B11 | PENN LINCOLN AMOCO | 1826 LINCOLN HWY | EDR Hist Auto | Higher | 1 ft. |
| B12 | RADOKOVIC STORE B | 1826 LINCOLN HWY | PA LUST, PA ARCHIVE UST | Higher | 1 ft. |
| D13 | JIFFY LUBE 1055 | 1716 LINCOLN HWY | RCRA NonGen / NLR | Higher | 230, 0.044, NW |
| E14 | KMART STORE 4064 | 1901 LINCOLN HWY END | RCRA-CESQG, FINDS, ECHO | Higher | 239, 0.045, NW |
| E15 | PENSKE AUTO CTR | 1901 LINCOLN HWY SEC | RCRA-CESQG, FINDS, ECHO | Higher | 239, 0.045, NW |
| E16 | PLAZA CLEANERS | 1901 LINCOLN WAY | RCRA-SQG | Higher | 239, 0.045, NW |
| E17 | RED CAP CLEANERS | 1901 LINCOLN HWY RT | EDR Hist Cleaner | Higher | 239, 0.045, NW |
| E18 | K MART 4064 | 1901 LINCOLN HWY | PA VCP, PA ARCHIVE UST | Higher | 239, 0.045, NW |
| E19 | K MART STORE 4064 | 1901 LINCOLN HWY | PA MANIFEST | Higher | 239, 0.045, NW |
| E20 | HOWARDS SERVICE CENT | 1901 LINCOLN HWY | EDR Hist Auto | Higher | 239, 0.045, NW |
| E21 | MODEL CLEANERS & UNI | 1901 LINCOLN WAY | RCRA-SQG, FINDS, ECHO | Higher | 239, 0.045, NW |
| E22 | KMART STORE 4064 | 1901 LINCOLN HWY | PA ARCHIVE UST, PA MANIFEST | Higher | 239, 0.045, NW |
| F23 | 35TH STROUSS ASSOCIA | 1810 LINCOLN TOWNSHI | PA AUL, PA VCP | Lower | 252, 0.048, NW |
| F24 | MERCK-MEDCO RX SRVCS | 1810 LINCOLN HWY | RCRA-LQG, FINDS, ECHO | Lower | 252, 0.048, NW |
| 25 | ABB - CE CAST PROD (| WALNUT STREET EXTENS | PA VCP | Higher | 274, 0.052, NW |
| G26 | VANGURA SURFACING PR | 14431 RTE 30 | PA MANIFEST | Higher | 379, 0.072, SSE |
| G27 | VANGURA SURFACING PR | 14431 ROUTE 30 | PA MANIFEST | Higher | 379, 0.072, SSE |
| G28 | VANGURA LAMINATED PR | 14431 ROUTE 30 | RCRA-SQG, FINDS, ECHO | Higher | 379, 0.072, SSE |
| D29 | SPEEDWAY 2906 | 1700 LINCOLN HWY | RCRA-CESQG | Higher | 482, 0.091, NW |
| D30 | SPEEDWAY 2906 | 1700 LINCOLN HWY | PA UST | Higher | 482, 0.091, NW |
| 31 | EAST ALLEGHENY HIGH | 1150 JACKS RUN RD | RCRA-SQG, NY MANIFEST | Lower | 1041, 0.197, WNW |
| 32 | TRUNZO COLLISION CEN | 1608 LINCOLN HWY | RCRA-CESQG, FINDS, ECHO | Higher | 1177, 0.223, NW |
| 33 | J0SEPH BLASKO FARM | 160 MOSSIDE RD | PA HIST LF | Higher | 1538, 0.291, North |
| 34 | MATTA FENCE CO | 1200 JACKS RUN RD | PA LUST | Lower | 2290, 0.434, West |
| 35 | DISASTER RESTORATION | 1506 LINCOLN HWY | PA LUST, PA ARCHIVE UST | Higher | 2480, 0.470, WNW |

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

PA SHWS..... Hazardous Sites Cleanup Act Site List

EXECUTIVE SUMMARY

PA HSCA..... HSCA Remedial Sites Listing

State and tribal landfill and/or solid waste disposal site lists

PA SWF/LF..... Operating Facilities

State and tribal leaking storage tank lists

PA LAST..... Storage Tank Release Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
PA UNREG LTANKS..... Unregulated Tank Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
PA AST..... Listing of Pennsylvania Regulated Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

PA ENG CONTROLS..... Engineering Controls Site Listing
PA INST CONTROL..... Institutional Controls Site Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

PA BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
US CDL..... National Clandestine Laboratory Register
PA PFAS..... Sites With Known PFAS Contamination

Local Lists of Registered Storage Tanks

PA ARCHIVE AST..... Archived Aboveground Storage Tank Sites

Local Land Records

LIENS 2..... CERCLA Lien Information

EXECUTIVE SUMMARY

PA ACT 2-DEED..... Act 2-Deed Acknowledgment Sites

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
PA SPILLS..... State spills

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
UXO..... Unexploded Ordnance Sites
FUELS PROGRAM..... EPA Fuels Program Registered Listing
PA AIRS..... Permit and Emissions Inventory Data
PA ASBESTOS..... ASBESTOS
PA DRYCLEANERS..... Drycleaner Facility Locations
PA MINES..... MINES
PA NPDES..... NPDES Permit Listing
PA UIC..... Underground Injection Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

PA RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
PA RGA LF..... Recovered Government Archive Solid Waste Facilities List
PA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|-------------------------|-------------------------------|---------------|-------------|
| MERCK-MEDCO RX SRVCS EPA ID:: PAR000039271 | 1810 LINCOLN HWY | NW 0 - 1/8 (0.048 mi.) | F24 | 47 |

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|------------------|-----------------------------|---------------|-------------|
| MAROADI TRANSFER | 1801 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | A2 | 9 |

EXECUTIVE SUMMARY

| | | | | |
|--|--------------------------|----------------------------------|---------------|-------------|
| EPA ID:: PAR000518878 | | | | |
| MONRO MUFFLER BRAKE EPA ID:: PAD982577504 | 1813 LINCOLN HGWY | 0 - 1/8 (0.000 mi.) | A6 | 15 |
| HI-WAY CLEANERS & TU EPA ID:: PAD981105703 | 14800 RT 30 | 0 - 1/8 (0.000 mi.) | C10 | 19 |
| PLAZA CLEANERS EPA ID:: PAD982565780 | 1901 LINCOLN WAY | NW 0 - 1/8 (0.045 mi.) | E16 | 31 |
| MODEL CLEANERS & UNI EPA ID:: PAD981730013 | 1901 LINCOLN WAY | NW 0 - 1/8 (0.045 mi.) | E21 | 37 |
| VANGURA LAMINATED PR EPA ID:: PAR000010975 | 14431 ROUTE 30 | SSE 0 - 1/8 (0.072 mi.) | G28 | 60 |
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
| EAST ALLEGHENY HIGH EPA ID:: PAD981102452 | 1150 JACKS RUN RD | WNW 1/8 - 1/4 (0.197 mi.) | 31 | 71 |

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 6 RCRA-CESQG sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|-----------------------------|---------------------------------|---------------|-------------|
| HOME DEPOT USA INC H EPA ID:: PAR000511790 | 102 ALPI DR | 0 - 1/8 (0.000 mi.) | B4 | 12 |
| ELIZABETH HATA INTL EPA ID:: PAR000036475 | 14559 RT 30 | 0 - 1/8 (0.000 mi.) | 9 | 17 |
| KMART STORE 4064 EPA ID:: PAR000007286 | 1901 LINCOLN HWY END | NW 0 - 1/8 (0.045 mi.) | E14 | 27 |
| PENSKE AUTO CTR EPA ID:: PAR000014928 | 1901 LINCOLN HWY SEC | NW 0 - 1/8 (0.045 mi.) | E15 | 29 |
| SPEEDWAY 2906 EPA ID:: PAR000547265 | 1700 LINCOLN HWY | NW 0 - 1/8 (0.091 mi.) | D29 | 67 |
| TRUNZO COLLISION CEN EPA ID:: PAD987390861 | 1608 LINCOLN HWY | NW 1/8 - 1/4 (0.223 mi.) | 32 | 74 |

State and tribal leaking storage tank lists

PA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources' List of Confirmed Releases.

A review of the PA LUST list, as provided by EDR, and dated 06/11/2019 has revealed that there are 3

EXECUTIVE SUMMARY

PA LUST sites within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|-------------------|-----------------------------|---------------|-------------|
| RADOKOVIC STORE B Facility Id: 576152 | 1826 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | B12 | 21 |
| DISASTER RESTORATION Facility Id: 576519 | 1506 LINCOLN HWY | WNW 1/4 - 1/2 (0.470 mi.) | 35 | 77 |
| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
| MATTA FENCE CO Facility Id: 575962 | 1200 JACKS RUN RD | W 1/4 - 1/2 (0.434 mi.) | 34 | 76 |

State and tribal registered storage tank lists

PA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Resources' Regulated Underground Storage Tank Listing.

A review of the PA UST list, as provided by EDR, and dated 06/04/2019 has revealed that there is 1 PA UST site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|------------------|-----------------------------|---------------|-------------|
| SPEEDWAY 2906 Site ID: 779427 Tank Status: Currently In Use | 1700 LINCOLN HWY | NW 0 - 1/8 (0.091 mi.) | D30 | 69 |

State and tribal institutional control / engineering control registries

PA AUL: A listing of sites with environmental covenants.

A review of the PA AUL list, as provided by EDR, and dated 04/16/2019 has revealed that there is 1 PA AUL site within approximately 0.5 miles of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|----------------------|-----------------------------|---------------|-------------|
| 35TH STROUSS ASSOCIA Facility Id: 811468 | 1810 LINCOLN TOWNSHI | NW 0 - 1/8 (0.048 mi.) | F23 | 45 |

State and tribal voluntary cleanup sites

PA VCP: The VCP listings included Completed Sites, Sites in Progress and Act 2 Non-Use Aquifer Determinations Sites. Formerly known as the Act 2, the Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites.

A review of the PA VCP list, as provided by EDR, and dated 04/08/2019 has revealed that there are 3

EXECUTIVE SUMMARY

PA VCP sites within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|-----------------------------|-------------------------------|---------------|-------------|
| K MART 4064 Activity ID: 824264 | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E18 | 33 |
| ABB - CE CAST PROD (Activity ID: 824852 | WALNUT STREET EXTENS | NW 0 - 1/8 (0.052 mi.) | 25 | 52 |
| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
| 35TH STROUSS ASSOCIA Activity ID: 811468 | 1810 LINCOLN TOWNSHI | NW 0 - 1/8 (0.048 mi.) | F23 | 45 |

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

PA HIST LF: The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities.

A review of the PA HIST LF list, as provided by EDR, has revealed that there is 1 PA HIST LF site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|----------------|-----------------------------|---------------|-------------|
| JOSEPH BLASKO FARM Database: HIST LF INVENTORY, Date of Government Version: 06/02/1999 Facility Status: INACTIVE Site ID: 5-022 | 160 MOSSIDE RD | N 1/4 - 1/2 (0.291 mi.) | 33 | 76 |

Local Lists of Registered Storage Tanks

PA ARCHIVE UST: The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

A review of the PA ARCHIVE UST list, as provided by EDR, and dated 06/04/2019 has revealed that there are 6 PA ARCHIVE UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|------------------|-----------------------------|---------------|-------------|
| MAROADI TRANSF & STO Status: Closed Without a Permit Facility Id: 02-27689 | 1801 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | A1 | 8 |
| U HAUL CTR LINCOLN H Status: Closed Without a Permit Facility Id: 02-13312 | 1725 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | 3 | 10 |
| PENN LINCOLN MEM PAR | 14679 RTE 30 | 0 - 1/8 (0.000 mi.) | 8 | 17 |

EXECUTIVE SUMMARY

Status: Closed Without a Permit
Facility Id: 65-82646

| | | | | |
|--|-------------------------|-------------------------------|------------|-----------|
| RADOKOVIC STORE B Status: Closed Without a Permit Facility Id: 02-23316 | 1826 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | B12 | 21 |
| K MART 4064 Status: Closed Without a Permit Facility Id: 02-15259 | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E18 | 33 |
| KMART STORE 4064 Status: T Facility Id: 02-83605 Site ID: 563305 | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E22 | 39 |

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|------------------|-----------------------------|---------------|-------------|
| JIFFY LUBE 1055 EPA ID:: PAD987278181 | 1716 LINCOLN HWY | NW 0 - 1/8 (0.044 mi.) | D13 | 26 |

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there are 4 PA MANIFEST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|-------------------------|-------------------------------|---------------|-------------|
| K MART STORE 4064 Generator EPA Id: PAR000007286 | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E19 | 35 |
| KMART STORE 4064 Generator EPA Id: PAR000007286 | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E22 | 39 |
| VANGURA SURFACING PR Generator EPA Id: PAR000010975 | 14431 RTE 30 | SSE 0 - 1/8 (0.072 mi.) | G26 | 53 |
| VANGURA SURFACING PR Generator EPA Id: PAR000010975 | 14431 ROUTE 30 | SSE 0 - 1/8 (0.072 mi.) | G27 | 55 |

EXECUTIVE SUMMARY

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|--------------------------|----------------------------------|---------------|-------------|
| EAST ALLEGHENY HIGH EPA ID: PAD981102452 | 1150 JACKS RUN RD | WNW 1/8 - 1/4 (0.197 mi.) | 31 | 71 |

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|------------------|-----------------------------|---------------|-------------|
| BOBS ESSO | 1815 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | B5 | 14 |
| PENN LINCOLN AMOCO | 1826 LINCOLN HWY | 0 - 1/8 (0.000 mi.) | B11 | 21 |
| HOWARDS SERVICE CENT | 1901 LINCOLN HWY | NW 0 - 1/8 (0.045 mi.) | E20 | 36 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|---------------------|-----------------------------|---------------|-------------|
| HI-WAY CLEANERS & TU | 14800 RTE 30 | 0 - 1/8 (0.000 mi.) | C7 | 16 |
| RED CAP CLEANERS | 1901 LINCOLN HWY RT | NW 0 - 1/8 (0.045 mi.) | E17 | 33 |

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

| <u>Site Name</u> | <u>Database(s)</u> |
|---------------------------------|-------------------------|
| IRWIN NIKE SITE PI 36 | PA VCP |
| SEWICKLEY TWP WESTMORELAND CNTY | PA LUST, PA ARCHIVE AST |
| ROSS APPLIANCE | PA LUST |
| PGH BRASS MFG | PA LUST |