# Limited Phase II Environmental Site Assessment

## Former Rome-Turney Radiator Company Site

109 Canal Street
Rome, New York

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# Common Acronyms/Abbreviations

bgs – Below Ground Surface

CP-51 – (NYSDEC) Commissioner's Policy #51 (for Soil Cleanup Guidance)

ESA – Environmental Site Assessment

GPR – Ground Penetrating Radar

GPS – Global Positioning System

GWS – Groundwater Standard

LSI – Limited Subsurface Investigation

MW – Molecular Weight

N/A – Not Applicable

NYSDEC – New York State Department of Environmental Conservation

PAH – Polycyclic Aromatic Hydrocarbons

PCB – Polychlorinated Biphenyl

PID – Photoionization Detector

ppb – Parts Per Billion

ppm – Parts Per Million

ppmV – Parts Per Million by Volume

RCRA – Resource Conservation and Recovery Act

REC – Recognized Environmental Condition

RSCO – Restricted Soil Cleanup Objective

SCO – Soil Cleanup Objective

SVOC – Semi-Volatile Organic Compound

TAL – Target Analyte List

TCL – Target Compound List

TOGS – Technical & Operational Guidance Series 1.1.1 (NYSDEC)

USEPA – United States Environmental Protection Agency

UST – Underground Storage Tank

VOC – Volatile Organic Compound



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## 1.0 INTRODUCTION

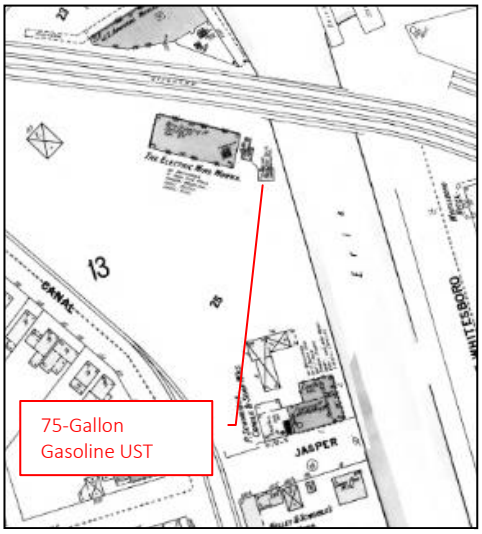
Bowers Development, LLC (Bowers) retained the Asbestos & Environmental Consulting Corporation (AECC) to perform a Limited Phase II Environmental Site Assessment (ESA) of the former Rome-Turney Radiator Company site ("Site"), located at 109 Canal Street, in the City of Rome, Oneida County, New York. The Limited Phase II ESA was undertaken to supplement soil and groundwater data collected previously at the site by others (refer to Section 1.2 below).

The site location and current layout/configuration are depicted on the attached Figure 1.

### 1.1 Site Background and Operational History

The site history was researched and documented by Bergmann Associates, P.C. (Bergmann) in a Phase I Environmental Site Assessment (Phase I ESA) report, dated August 24, 2015. The Bergmann Phase I ESA report and its supporting documentation indicate that the Site was originally developed between 1884 and 1888, and has been used for industrial purposes since. Historic fire insurance maps indicate that the original development consisted of portions of the R.M. Bingham and Co. carriage manufacturing operations, representing an extension of that company's larger operations to the north of the Site. The R.M. Bingham operations to the north of the Site pre-date 1884. In 1888 and 1894, the Site was occupied by a blacksmith / forging building and lumber piles associated with the R.M. Bingham operations.

In 1899, the former blacksmith / forge building on the Site was occupied by The Electric Wire Works. An engine house and a 75-gallon underground gasoline storage tank (UST) were also located to the east of the building, on the northern portion of the Site. This building, depicted on the fire insurance map excerpt to the right, was later occupied by the Utica Industrial Co. machine shop in 1904.



*1899 Sanborn Fire Insurance Map Excerpt*

In 1905, the Rome-Turney Radiator Co., a manufacturer of automobile radiators, began operations at the Site; and by 1909, the Site was occupied by an office, machine shop, buffing room, packing and testing building, and a stand-alone structure that contained a Gas Plant and Oil House. A small, stand-alone building labeled as "gasol. house" (interpreted as "Gasoline House") was also located on the western section of the Site, adjacent to Canal Street. The Bingham Harness Co. also operated a collar shop near Canal Street, on the southwestern portion of the Site.

In 1914, a Dipping Building was present on the east-central portion of the Site, a Transformer House is present exterior to the southeastern corner of the building, a 10,000-gallon gasoline UST was located adjacent to Canal Street (in location of previously noted as the "gasol. house"), and a gasoline pump house was added near the south side of the gas plant.

The Gas Plant is depicted on historic Sanborn Fire Insurance Maps from 1909 and 1914. The 10,000-gallon gasoline UST and Oil House are depicted on historic Sanborn maps from 1914 through 1971.



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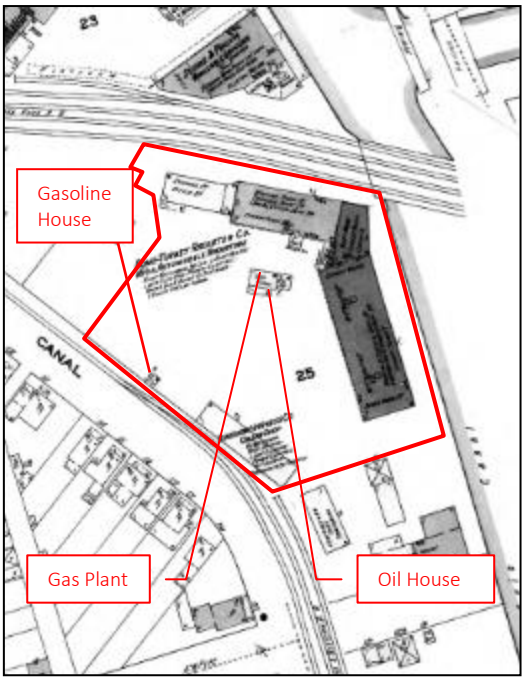
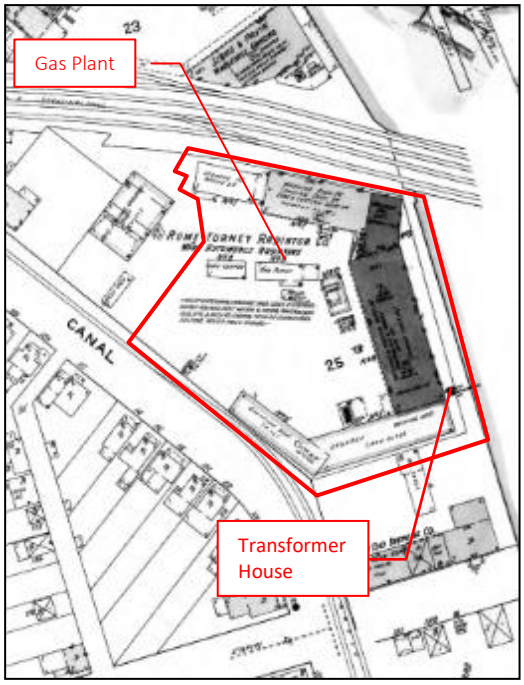



*1909 Sanborn Fire Insurance Map Excerpt*




*1914 Sanborn Fire Insurance Map Excerpt*

The 1971 Sanborn fire insurance map was the last in the series. Subsequent operators were identified through a review of historical City Directories, which are summarized below*:

| | |
|---|---|
| 1971 – 1987: | Rome-Turney Radiator Co. |
| 1992 – 1995: | Rome-Turney Radiator Co., Lynch Realty, The Music Factory (asphalt company) |
| 1999 – 2003: | Rome-Turney Radiator Co. and The Music Factory |
| 2008: | Rome-Turney Radiator Co. and the Elegrace Casket, Inc. (casket making) |
| 2013: | The Music Factory |

Documents provided by NYSDEC and an internet search also reveal that Rollerad occupied 109 Canal Street and adjacent parcel to the south (100 Jasper Street) from at least 2008 to 2018.

Note that the adjacent parcel to the west, formerly known as 107 Canal Street, now shares the 109 Canal Street address. Earlier city directories and an internet search reveals that two companies with 109 Canal Street addresses, Serway Brothers Inc. – Plastic Laminating Division (cabinet making) and Rofin LLC (supplier of industrial coolers), are/were actually located on the adjacent parcel. Therefore, it is possible that The Music Factory, Elegrace, and Rollerad were also located on the adjacent parcel.

## 1.2 Previous Environmental Investigations

*1988 – Fuel Oil UST Removal*

The earliest documented environmental investigation occurred in 1988 as a result of the discovery of free-phase No. 2 fuel oil within an observation well near two 5,000-gallon fuel oil USTs. Based on the NYSDEC PBS Database (#6-389331), the date of installation of these tanks is reportedly December 1975. As a result of this observation of a potential release, the owner proceeded to have the USTs removed in 1988. At the time of removal approximately 50 tons of contaminated soils were removed and disposed at the Seneca Meadows Landfill. NYSDEC Spill# 88-02056 is associated with this UST removal.



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*1996 – Subsurface Investigation Report – Theal Environmental Services (TES)*

Although NYSDEC repeatedly requested an investigation of the nature and extent of soil and groundwater contamination in the vicinity of the removed fuel oil USTs, no additional investigation was undertaken until 1995 (by TES under a STIP Agreement). The investigation consisted of a soil vapor study, installation of four soil borings and installation of three monitoring wells. The locations of the soil gas samples and wells are presented in the attached Figure 3. In summary, the investigation revealed:

- Elevated soil gas concentrations in middle of parking area (apparently originating from source to southwest) and possibly extending further to the northwest
- Soils consisted of 11-12' of silt, over 7 feet of fine sand/silt grading to an interbedded course gravel and stone deposit, over gray soft silt. Based on recovery rates, silts are low permeability.
- MW-1 (NNE of UST grave, shallow aquifer) – Elevated PID from 4.5-6.5' bgs but no petroleum odor
- MW-2 (NW of UST grave, shallow aquifer) – Faint petroleum odor 5-7' bgs. No water produced during sampling.
- MW-3 (SSW of UST grave, deep aquifer) – Elevated soil vapor, petroleum odors below 9' bgs. *Note: water level was above the top of screened interval, so any free product would not show*.
- B-4 – Within tank grave. Fill was a medium to course sand (crushed stone at surface). Refusal at 10.7' bgs (assumed concrete pad/ballast).
- Free product was observed in the existing observation well.
- Two separate aquifers exist. The shallow aquifer is present at ~3' bgs, while the deep aquifer is present at ~12' bgs. The shallow aquifer flows to the northeast. The deep aquifer flow direction is unknown (only one point – MW-3). Both aquifers are impacted by petroleum.
- Based on TPH analysis, weathered lubricating oil was detected in MW-1, gasoline was detected in MW-3, and #2 fuel oil was detected in the observation well. *Note: weathered lubricating oil and weathered fuel oil have similar patterns*.

*August 2015 – Phase I Environmental Site Assessment – Bergmann*

Bergmann conducted a Phase I ESA in August 2015. The report identified several Recognized Environmental Conditions (RECs), which are reproduced below:

1. *Former Industrial Operations—historical and owner-provided information indicate that the property formerly operated as Rome-Turney Radiator Company with multiple other industrial and manufacturing operations dating back to the late 1800s, and which presents a material threat of release of petroleum and/or other hazardous materials associated with industrial and manufacturing operations to the subsurface.*
2. *Petroleum and Hazardous Materials Storage—historical information and site reconnaissance observations identified that petroleum and hazardous materials were formerly or are currently stored at the property, and present a material threat of release of petroleum and/or other hazardous materials stored there to human receptors and/or the subsurface.*
3. *Remaining Soil and Groundwater Contamination—historical information from the NYSDEC indicated that a subsurface investigation was necessary in order to close Spill #8802056. The owner of the facility investigated the fuel oil UST grave and removed the tanks and some contaminated soils in 1988 (see Theal Environmental Services, Inc. [TES] subsurface investigation report, May 1996). TES performed additional investigation in 1995 and 1996 and only found residual petroleum but not free-product. Despite the findings of TES, NYSDEC concluded the investigation was incomplete as of 2003 (see historic commentary associated with the formal NYSDEC Spill #8802056 report). As of 2015, there had been no additional ESA work to address the concerns of NYSDEC. The spill number remains open.*



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4. *Adjoining Properties—adjoining/abutting properties were used for a gasoline station, industrial uses, and a car wash, and together present a material threat of migration of hazardous substances to the subsurface of the subject property through groundwater and/or vapor encroachment*
5. *Historic Tannery Land Use—an interview with city representatives led to the suggestion that the property was formerly operated as a tannery, presenting a potential material threat of a release of chemicals and wastes associated with these historic operations*
6. *Solid Waste Disposal—site reconnaissance observations of disposed unknown solid waste disposal inside the building(s)*
7. *Radon—there is a potential for radon gas to enter the existing building structures*
8. *Soil Vapor Encroachment—while a vapor encroachment survey (VES) was not a part of the Phase I ESA, Bergmann concluded that the potential for vapor encroachment into future on-site buildings exists due to historical site uses for industrial and manufacturing operation and the (bulk) storage of petroleum and/or hazardous materials*

In addition to the above, AECC's review of the Bergman Phase I ESA report revealed:

- An Inspection Form dated April 8, 2005 states that the Rome-Turney Radiator Co. was inspected by NYSDEC on March 14 and 21, 2005. The facility was identified as a generator of hazardous waste (lead, acetone, xylene and assorted aerosol cans).
- A Notice of Violation dated April 11, 2005 from Mr. Edward Blackmer, Regional Solid & Hazardous Materials Engineer for NYSDEC Region 6 stating that the Site formerly operated as a Conditionally Exempt Small Quantity Generator (CESQG) and that the facility is closed due to a bankruptcy filing. The letter states that the facility is in violation of 6NYCRR Part 371.1(c)(7) with regard to a characteristic hazardous (lead) dross.

*December 2015 – Draft Site Investigation Report – Bergmann*

In December 2015, Bergmann performed a site investigation to investigate subsurface conditions near the former fuel oil UST grave, a suspected gasoline UST grave near Canal Street, and between the two tank graves. The investigation included a geophysical survey, the excavation of eight test pits (TP-1 to TP-8), advancement of eight soil borings (SB-1 to SB-8), and the installation of eight groundwater monitoring wells (MW-1 to MW-8). The locations of the Bergmann test pits, borings, and wells are presented on Figures 1 and 2. Note that a final report was not provided to AECC.

The Geophysical Survey identified three anomalies, which were deemed not likely to be USTs:

- Anomaly A was investigated by excavating TP-1, TP-2, TP-3
- Anomaly B was investigated by excavating TP-4, TP-5, TP-8
- Anomaly C was investigated by excavating TP-6
- Not mentioned in the geophysical report but noted during AECC's review of the report, a small anomaly is present in the location of the former Transformer House

The soils were described as 4 feet of fill (dark brown SAND some gravel) over lacustrine gray CLAY trace brown silt to dark brown SILT trace clay.

The following observations were observed during the excavation of the test pits (see also Figure 4):

- TP-1: No observations of consequence, refusal at concrete slab at 2' bgs
- TP-2: No observations of consequence, refusal at concrete slab at 2' bgs
- TP-3: Odors, PID up to 75 (increasing with depth)
- TP-4: Odors, PID up to 88 (increasing with depth)



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- TP-5: Odors, PID up to 84 (increasing with depth)
- TP-6: Odors, PID up to 239 (increasing with depth)
- TP-7: Odors, PID up to 55 (increasing with depth)
- TP-8: Odors, PID up to 20 (increasing with depth)

The following observations were observed during the excavation of the borings and installation of the wells:

- SB-1/MW-1: Odors, PID up to 329 (max at 8-10' bgs), water at 4' bgs, bottom of well at 8.4' bgs, 5' screen
- SB-2/MW-2: Odors, PID up to 730 (max at 2-4' bgs) and also increasing in depth up to 468, water at 4.5' bgs, sheen, bottom of well at 8.5' bgs, 5' screen
- SB-3/MW-3: PID up to 45 (max at 2-4' bgs), water at 4.5' bgs, bottom of well at 8.4' bgs, 5' screen
- SB-4/MW-4: PID up to 8.3 (max at 2-4' bgs), water at 4' bgs, bottom of well at 8.3' bgs, 5' screen
- SB-5/MW-5: Odors, PID up to 347 (max at 2-4' bgs), water at 4' bgs, bottom of well at 8.3' bgs, 5' screen
- SB-6/MW-6: PID up to 3.9 (max at 2-4' bgs), water at 5' bgs, bottom of well at 8.3' bgs, 5' screen
- SB-7/MW-7: PID up to 63 (max at 8-10' bgs), water at 5' bgs, bottom of well at 8.4' bgs, 5' screen
- SB-8/MW-8: PID up to 13 (max at 0-2' bgs), water at 5' bgs, bottom of well at 8.6' bgs, 5' screen

The depth to groundwater was typically 7 - 8' bgs, but was encountered 1 - 3' bgs at MW-1 and MW-5, and MW-8 was dry.

The laboratory analysis of soils revealed the following:

- PCBs, pesticides, and chlorinated VOCs were not detected
- Acetone was present at concentrations above the Unrestricted SCO in TP-7 and SB-1, and below the Unrestricted SCO elsewhere
- Six of the 13 borings revealed individual SVOC concentrations above Unrestricted SCOs. The individual SVOC concentrations in SB-7 and SB-8 were above Commercial RSCOs, while SB-5 and SB-8 exhibited highest total SVOCs.
- Individual TAL metals were detected above the Unrestricted SCOs in 11 of the 13 locations (TP-1, TP-2, and TP-8 were not sampled; SB-6 and TP-6 were the only sampled locations without an exceedance of the Unrestricted SCOs). No metal concentrations exceeded the Commercial RSCOs.

The laboratory analysis of groundwater revealed the following:

- PCBs, pesticides, and chlorinated VOCs were not detected
- The following VOCs , SVOCs, and metals were detected at concentrations above their applicable GWS:
    - 2-Butanone in MW-2, MW-4, MW-7
    - Acetone in all wells except MW-1 (at concentrations that are likely not associated with potential laboratory contamination)
    - Chloroform in MW-3
    - Dibromochloromethane in MW-2, MW-3, MW-4
    - Naphthalene in MW-5 and MW-7
    - Arsenic in MW-1, MW-2, MW-3. MW-4
    - Barium in MW-1, MW-2, MW-3
    - Cadmium in MW-1, MW-2, MW-3. MW-4, MW-7
    - Chromium in MW-1, MW-2, MW-3, MW-4
    - Lead in MW-1 (~300x TOGS), MW-2 (~1000x TOGS), MW-3. MW-4, MW-7
    - Mercury in MW-1
    - In addition, several non-RCRA 8 metals/metalloids detected above their respective GWS (of note, high iron and sodium)



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Based on the observations and laboratory results, Bergmann identified two Areas of Concern (AOCs):

- AOC#1 – Suspect USTs near SB-1/MW-1 and TP-6
- AOC#2 – UST Grave near TP-1, TP-2, and SB-5/MW-5
- *Note that the descriptions of the AOCs in the text of the report are reversed when compared to the referenced TPs and SBs*

For the reader's information, AECC prepared summary tables of the laboratory data contained within the Bergmann Draft Site Investigation Report. These tables are presented below, and the results are also illustrated within Figures 5 to 10. The following notes and legend pertain to the tables:

***Notes:***
*All soils concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)*
*All groundwater concentrations in micrograms per liter (ug/L)/parts per billion (ppb)*
** - SCO/RSCO value represents total xylenes*
[8] = RCRA 8 Metal

| | |
|---|---|
| ***Box + Bold*** | *Compound concentration exceeds the Unrestricted Use SCO* |
| ***Box + Bold + Shading*** | *Compound concentration exceeds the Commercial Use RSCO or the applicable GWS* |

*VOCs – Soils*

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | |
|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | CAS No. | Commercial RSCO | Unrestricted SCO | TP-3 | TP-4 | TP-5 | TP-6 | TP-7 |
| | | | | 10/28/2015 | 10/28/2015 | 10/28/2015 | 10/28/2015 | 10/28/2015 |
| Acetone | 67-64-1 | 500 | 0.05 | BRL | BRL | ***0.115*** | BRL | ***0.102*** |
| 2-Butanone (MEK) | 78-93-3 | 500 | 0.12 | BRL | BRL | BRL | BRL | BRL |
| n-Butylbenzene | 104-51-8 | 500 | 12 | BRL | BRL | 0.0327 | BRL | 0.0108 |
| sec-Butylbenzene | 135-98-8 | 500 | 11 | BRL | BRL | 0.0247 | 0.253 | BRL |
| Cyclohexane | 110-82-7 | NS | NS | BRL | BRL | BRL | BRL | BRL |
| Ethylbenzene | 100-41-4 | 390 | 1 | BRL | BRL | BRL | BRL | BRL |
| Isopropylbenzene | 98-82-8 | NS | 2.3 | BRL | BRL | BRL | BRL | BRL |
| Methylene chloride | 75-09-2 | 500 | 0.05 | BRL | BRL | BRL | BRL | BRL |
| Methyl cyclohexane | 108-87-2 | NS | NS | BRL | BRL | 0.0474 | 5.73 | 0.0152 |
| Naphthalene | 90-20-3 | 500 | 12 | 4.24 | 5.24 | 0.445 | BRL | ***32.4*** |
| n-Propylbenzene | 103-65-1 | 500 | 3.9 | BRL | BRL | 0.035 | 0.179 | 0.0132 |
| 1,2,3-Trichlorobenzene | 87-61-6 | NS | 20 | BRL | BRL | BRL | BRL | BRL |
| 1 2 4-trimethylbenzene | 95-63-6 | 190 | 3.6 | BRL | BRL | 0.0895 | 0.634 | BRL |
| 1,3,5-trimethylbenzene | 108-67-8 | 190 | 8.4 | BRL | BRL | 0.0322 | 0.463 | BRL |
| m,p-xylene | 106-42-3 | 500* | 0.26* | BRL | BRL | BRL | BRL | BRL |
| o-xylene | 95-47-6 | | | BRL | BRL | BRL | BRL | BRL |
| TOTAL | N/A | N/A | N/A | 4.2 | 5.2 | 0.8 | 7.3 | 32.5 |

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | CAS No. | Commercial RSCO | Unrestricted SCO | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-6 | SB-7 | SB-8 |
| | | | | 11/10/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/12/2015 | 11/12/2015 |
| Acetone | 67-64-1 | 500 | 0.05 | ***0.0509*** | BRL | ***0.26*** | ***0.0782*** | BRL | 0.0239 J | BRL | BRL |
| 2-Butanone (MEK) | 78-93-3 | 500 | 0.12 | BRL | BRL | 0.0716 | 0.0187 J | BRL | BRL | BRL | BRL |
| n-Butylbenzene | 104-51-8 | 500 | 12 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| sec-Butylbenzene | 135-98-8 | 500 | 11 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Cyclohexane | 110-82-7 | NS | NS | 0.0315 | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Ethylbenzene | 100-41-4 | 390 | 1 | 0.0037 J | BRL | 0.0013 J | BRL | BRL | BRL | BRL | BRL |
| Isopropylbenzene | 98-82-8 | NS | 2.3 | 0.0863 | BRL | 0.0024 J | BRL | 0.54 J | BRL | BRL | BRL |
| Methylene chloride | 75-09-2 | 500 | 0.05 | BRL | BRL | 0.0034 J | 0.002 J | BRL | 0.0084 | 0.002 J | 0.0028 J |
| Methyl cyclohexane | 108-87-2 | NS | NS | 0.29 E | 3 | 0.0324 | 0.0023 J | 1.3 | BRL | BRL | BRL |
| Naphthalene | 90-20-3 | 500 | 12 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| n-Propylbenzene | 103-65-1 | 500 | 3.9 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| 1,2,3-Trichlorobenzene | 87-61-6 | NS | 20 | BRL | 1.6 | BRL | BRL | BRL | BRL | BRL | BRL |
| 1 2 4-trimethylbenzene | 95-63-6 | 190 | 3.6 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| 1,3,5-trimethylbenzene | 108-67-8 | 190 | 8.4 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| m,p-xylene | 106-42-3 | 500* | 0.26* | BRL | ***0.6 J*** | 0.0013 J | BRL | BRL | BRL | BRL | BRL |
| o-xylene | 95-47-6 | | | BRL | ***BRL*** | BRL | BRL | BRL | BRL | BRL | BRL |
| TOTAL | N/A | N/A | N/A | 0.5 | 5.2 | 0.4 | 0.1 | 1.8 | 0.0 | 0.0 | 0.0 |

*(continued on following page)*



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*SVOCs – Soils*

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | |
|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | CAS No. | Commercial RSCO | Unrestricted SCO | TP-3 | TP-4 | TP-5 | TP-6 | TP-7 |
| | | | | 10/28/2015 | 10/28/2015 | 10/28/2015 | 10/28/2015 | 10/28/2015 |
| Acenaphthene | 83-32-9 | 500 | 20 | BRL | BRL | BRL | BRL | BRL |
| Acenaphthylene | 208-96-8 | 500 | 100 | BRL | BRL | BRL | BRL | BRL |
| Anthracene | 120-12-7 | 500 | 100 | BRL | BRL | BRL | BRL | BRL |
| Benzo (a) anthracene | 56-55-3 | 5.6 | 1 | BRL | BRL | BRL | BRL | BRL |
| Benzo (a) pyrene | 50-32-8 | 1 | 1 | BRL | BRL | BRL | BRL | BRL |
| Benzo (b) fluoranthene | 205-99-2 | 5.6 | 1 | BRL | BRL | BRL | BRL | BRL |
| Benzo (g,h,i) perylene | 191-24-2 | 500 | 100 | BRL | BRL | BRL | BRL | BRL |
| Benzo (k) fluoranthene | 207-08-9 | 56 | 0.8 | BRL | BRL | BRL | BRL | BRL |
| Biphenyl | 92-52-4 | NS | NS | BRL | BRL | BRL | BRL | BRL |
| Carbazole | 86-74-8 | NS | NS | BRL | BRL | BRL | BRL | BRL |
| Chrysene | 218-01-9 | 56 | 1 | BRL | BRL | BRL | BRL | BRL |
| Dibenzo (a,h) anthracene | 53-70-3 | 0.56 | 0.33 | BRL | BRL | BRL | BRL | BRL |
| Dibenzofuran | 132-64-9 | NS | NS | BRL | BRL | BRL | BRL | BRL |
| Dimethyl phthalate | 131-11-3 | NS | 27 | 1.2 | BRL | BRL | BRL | BRL |
| Fluoranthene | 206-44-0 | 500 | 100 | BRL | BRL | BRL | BRL | BRL |
| Fluorene | 86-73-7 | 500 | 30 | 0.871 | 1.93 | BRL | BRL | BRL |
| Indeno (1,2,3-cd) pyrene | 193-39-5 | 5.6 | 0.5 | BRL | BRL | BRL | BRL | BRL |
| 2-Methylnaphthalene | 91-57-6 | NS | 0.41 | ***6.68*** | ***21.3*** | ***0.988*** | BRL | BRL |
| Naphthalene | 91-20-3 | 500 | 12 | 0.751 | 2.1 | BRL | BRL | BRL |
| Phenanthrene | 85-01-8 | 500 | 100 | 2.04 | 3.68 | BRL | BRL | BRL |
| Pyrene | 129-00-0 | 500 | 100 | BRL | BRL | BRL | BRL | BRL |
| TOTAL SVOCs | - | - | - | 11.542 | 29.01 | 0.988 | 0 | 0 |

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | CAS No. | Commercial RSCO | Unrestricted SCO | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-6 | SB-7 | SB-8 |
| | | | | 11/10/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/11/2015 | 11/12/2015 | 11/12/2015 |
| Acenaphthene | 83-32-9 | 500 | 20 | BRL | BRL | BRL | BRL | BRL | BRL | 0.17 J | 0.88 |
| Acenaphthylene | 208-96-8 | 500 | 100 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.13 J |
| Anthracene | 120-12-7 | 500 | 100 | BRL | BRL | BRL | BRL | BRL | BRL | 0.4 | 2 |
| Benzo (a) anthracene | 56-55-3 | 5.6 | 1 | BRL | BRL | BRL | BRL | BRL | BRL | ***1.4*** | ***4 D*** |
| Benzo (a) pyrene | 50-32-8 | 1 | 1 | BRL | BRL | BRL | BRL | BRL | BRL | ***1.1*** | ***3.4 D*** |
| Benzo (b) fluoranthene | 205-99-2 | 5.6 | 1 | BRL | BRL | BRL | BRL | BRL | BRL | ***1.3*** | ***3.9 D*** |
| Benzo (g,h,i) perylene | 191-24-2 | 500 | 100 | BRL | BRL | BRL | BRL | BRL | BRL | 0.6 | 1.7 JD |
| Benzo (k) fluoranthene | 207-08-9 | 56 | 0.8 | BRL | BRL | BRL | BRL | BRL | BRL | 0.79 | ***1.8 JD*** |
| Biphenyl | 92-52-4 | NS | NS | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.11 J |
| Carbazole | 86-74-8 | NS | NS | BRL | BRL | BRL | BRL | BRL | BRL | 0.28 J | 0.99 JD |
| Chrysene | 218-01-9 | 56 | 1 | BRL | 0.11 J | BRL | BRL | BRL | BRL | ***1*** | ***4 D*** |
| Dibenzo (a,h) anthracene | 53-70-3 | 0.56 | 0.33 | BRL | BRL | BRL | BRL | BRL | BRL | 0.17 J | ***0.49 JD*** |
| Dibenzofuran | 132-64-9 | NS | NS | BRL | BRL | BRL | BRL | BRL | BRL | 0.13 J | 0.75 |
| Dimethyl phthalate | 131-11-3 | NS | 27 | 1 | 1.2 | 1.2 J | 1.1 | BRL | 1.1 | 0.78 | 0.91 |
| Fluoranthene | 206-44-0 | 500 | 100 | BRL | 0.2 J | BRL | BRL | BRL | BRL | 2 | 7.3 D |
| Fluorene | 86-73-7 | 500 | 30 | BRL | BRL | BRL | BRL | 9.3 JD | BRL | 0.16 J | 1 |
| Indeno (1,2,3-cd) pyrene | 193-39-5 | 5.6 | 0.5 | BRL | BRL | BRL | BRL | BRL | BRL | ***0.54*** | ***1.7 JD*** |
| 2-Methylnaphthalene | 91-57-6 | NS | 0.41 | BRL | BRL | ***1.3 J*** | BRL | ***96.5 D*** | 0.22 J | BRL | 0.32 J |
| Naphthalene | 91-20-3 | 500 | 12 | BRL | 0.25 J | BRL | BRL | ***24.8 D*** | BRL | 0.19 J | 8.1 JD |
| Phenanthrene | 85-01-8 | 500 | 100 | BRL | 0.21 J | BRL | BRL | 15.3 E | BRL | 1.6 | 7.8 D |
| Pyrene | 129-00-0 | 500 | 100 | BRL | 0.17 J | BRL | BRL | BRL | BRL | 2 | 6.8 D |
| TOTAL SVOCs | - | - | - | 1 | 2.14 | 2.5 | 1.1 | 145.9 | 1.32 | 14.61 | 58.08 |

*(continued on following page)*



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## *Metals – Soils*

| ANALYTES | | APPLICABLE STANDARD | | SAMPLE LOCATION / DATE | | | | |
|---|---|---|---|---|---|---|---|---|
| Metal | CAS No. | Commercial RSCO | Unrestricted SCO | TP-3 | TP-4 | TP-5 | TP-6 | TP-7 |
| | | | | 10/28/15 | 10/28/15 | 10/28/15 | 10/28/15 | 10/28/15 |
| Aluminum | 7429-90-5 | NS | 10000 | ***14200*** | ***14600*** | 8850 | 9930 | ***14000*** |
| Antimony | 7440-36-0 | NS | 12 | BRL | BRL | BRL | BRL | BRL |
| Arsenic[8] | 7440-38-2 | 16 | 13 | 6.11 | 1.59 | 2.21 | 1.72 | 2.92 |
| Barium[8] | 7440-39-3 | 400 | 350 | 61.1 | 59.6 | 33.2 | 29.9 | 60 |
| Beryllium | 7440-41-7 | 590 | 7.2 | 0.822 | 0.834 | 0.581 | 0.64 | 0.797 |
| Cadmium[8] | 7440-43-9 | 9.3 | 2.5 | BRL | BRL | 1.41 | BRL | BRL |
| Calcium | 7440-70-2 | NS | 10000 | 2360 | 2790 | 4380 | 1640 | 2730 |
| Chromium[8] | 7440-47-3 | 1500 | 30 | 18.9 | 19.7 | 14.4 | 13.5 | 19.5 |
| Cobalt | 7440-48-4 | NS | 20 | 13.6 | 12.2 | 7.7 | 8.85 | 12.4 |
| Copper | 7440-50-8 | 270 | 50 | 37.8 | 46.4 | ***54.9*** | 22 | ***145*** |
| Iron | 7439-89-6 | NS | 2000 | ***444000*** | ***21200*** | ***15500*** | ***13400*** | ***23200*** |
| Lead[8] | 7439-92-1 | 1000 | 63 | 18 | 36.4 | ***82.6*** | 10.2 | ***146*** |
| Magnesium | 7439-95-4 | NS | NS | 4480 | 5100 | 3140 | 3870 | 4950 |
| Manganese | 7439-96-5 | 10000 | 1600 | 232 | 194 | 163 | 139 | 235 |
| Mercury[8] | 7439-97-5 | 2.8 | 0.18 | 0.0747 | 0.0998 | 0.0537 | 0.0289 | 0.0627 |
| Nickel | 7440-02-0 | 310 | 30 | ***35.4*** | ***30.6*** | 17.9 | 20.4 | ***30.1*** |
| Potassium | 7440-09-7 | NS | NS | 1720 | 1890 | 1290 | 1440 | 1670 |
| Silver[8] | 7782-49-2 | 1500 | 3.9 | BRL | BRL | BRL | BRL | BRL |
| Selenium[8] | 7440-22-4 | 1500 | 2 | BRL | BRL | BRL | BRL | BRL |
| Sodium | 7440-23-5 | NS | NS | BRL | BRL | BRL | BRL | BRL |
| Thallium | 7440-28-0 | NS | 5 | BRL | BRL | BRL | BRL | BRL |
| Vanadium | 7440-62-2 | NS | 39 | 25.7 | 26.9 | 23.5 | 20.1 | 26.3 |
| Zinc | 7440-66-6 | 10000 | 109 | 65.5 | 102 | ***451*** | 45.5 | ***307*** |

| ANALYTES | | APPLICABLE STANDARD | | SAMPLE LOCATION / DATE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Metal | CAS No. | Commercial RSCO | Unrestricted SCO | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-6 | SB-7 | SB-8 |
| | | | | 11/10/15 | 11/11/15 | 11/11/15 | 11/11/15 | 11/11/15 | 11/11/15 | 11/12/15 | 11/12/15 |
| Aluminum | 7429-90-5 | NS | 10000 | ***12100*** | 9260 | ***11400*** | 3680 | 3380 | ***12000*** | 4760 | 6650 |
| Antimony | 7440-36-0 | NS | 12 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Arsenic[8] | 7440-38-2 | 16 | 13 | 2.73 | 10.2 | 5.76 | 12.2 | 2.72 | 4.78 | 3.78 | 5.05 |
| Barium[8] | 7440-39-3 | 400 | 350 | 53.1 | 93.6 | 62 | - | 16.6 | 59.6 | 26.7 | 49.5 |
| Beryllium | 7440-41-7 | 590 | 7.2 | 0.866 | 0.952 | 0.939 | 0.947 | 0.33 | 1.08 | 0.36 | 0.453 |
| Cadmium[8] | 7440-43-9 | 9.3 | 2.5 | 0.455 | 4.89 | 0.657 | ***3.79*** | 0.216 J | 0.599 | 1.71 | 1.23 |
| Calcium | 7440-70-2 | NS | 10000 | 2770 | ***14900*** | ***47100*** | 3060 | ***46900*** | 4260 | 6840 | 3150 |
| Chromium[8] | 7440-47-3 | 1500 | 30 | 17 | 16.2 | 13.4 | 10.5 | 4.16 | 19 | 17.6 | 13.2 |
| Cobalt | 7440-48-4 | NS | 20 | 14.9 | 11.3 | 11.1 | 11.7 | 3.2 | 11.2 | 4.66 | 6.59 |
| Copper | 7440-50-8 | 270 | 50 | 30.7 | ***130*** | 17.3 | BRL | ***58.7*** | 19.1 | ***59.7*** | ***72.9*** |
| Iron | 7439-89-6 | NS | 2000 | ***22500*** | ***34500*** | ***28800*** | ***109900 D*** | ***8900*** | ***32100*** | ***13600*** | ***18500*** |
| Lead[8] | 7439-92-1 | 1000 | 63 | 40.2 | ***636*** | 40.4 | 56.4 | 9.16 | 24.4 | ***217*** | ***201*** |
| Magnesium | 7439-95-4 | NS | NS | 5070 | 3140 | 3950 | 1060 | 2360 | 4020 | 2520 | 2290 |
| Manganese | 7439-96-5 | 10000 | 1600 | 199 | 279 | 372 | BRL | 137 | 197 | 307 | 451 |
| Mercury[8] | 7439-97-5 | 2.8 | 0.18 | 0.094 | ***6.79 D*** | 0.101 | ***0.924*** | BRL | 0.108 | 0.024 | ***0.269*** |
| Nickel | 7440-02-0 | 310 | 30 | ***36.1*** | 27.9 | 25.3 | 23.9 | 6.79 | 27.7 | 12.8 | 16.3 |
| Potassium | 7440-09-7 | NS | NS | 742 | 745 | 698 | 304 | 403 | 886 | 443 | 601 |
| Silver[8] | 7782-49-2 | 1500 | 3.9 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Selenium[8] | 7440-22-4 | 1500 | 2 | 1.56 | ***2.51*** | 1.97 | BRL | 0.417 J | ***2.23*** | 1.14 | 1.32 |
| Sodium | 7440-23-5 | NS | NS | 91.6 J | 76.3 J | 101 J | 46.3 J | 74.1 | 58.3 J | 21.8 J | 26.3 J |
| Thallium | 7440-28-0 | NS | 5 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Vanadium | 7440-62-2 | NS | 39 | 21.5 | 22.4 | 21 | ***43.7*** | 8.53 | 23.8 | 11 | 17.3 |
| Zinc | 7440-66-6 | 10000 | 109 | ***738*** | ***1750*** | ***128*** | ***154*** | 33 | 101 | 99 | ***198*** |

*(continued on following page)*



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## *VOCs – Groundwater*

| ANALYTES | | APPLICABLE STANDARD | SAMPLE LOCATION / DATE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | CAS No. | GWS | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 |
| | | | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 |
| 2-Butanone | 78-93-3 | 3 | BRL | ***5.5*** | 2.9 J | ***7.5*** | BRL | BRL | ***3.5 J*** |
| 2-Hexanone | 591-78-6 | 50 | BRL | 8.4 | 3 J | 5.5 | BRL | BRL | BRL |
| 4-Methyl-2-pentanone | 108-10-1 | 50 | BRL | 1.9 J | 1.2 J | 2.2 J | BRL | BRL | BRL |
| Acetone | 67-64-1 | 5 | BRL | ***38.4*** | ***38.9*** | ***69*** | ***9.9*** | ***250*** | ***21*** |
| Benzene | 71-43-2 | NS | BRL | BRL | BRL | BRL | 0.67 J | BRL | 1.6 |
| Bromodichloromethane | 75-27-4 | 50 | BRL | 2.9 | 3.9 | 1.2 | 0.4 J | BRL | BRL |
| Carbon disulfide | 75-15-0 | 50 | BRL | 0.57 J | 0.7 J | 0.85 J | 1.1 | 0.45 J | 0.51 J |
| Chloroform | 67-66-3 | 5 | BRL | 4.8 | ***6.1*** | 2.5 | 0.67 J | BRL | BRL |
| Dibromochloromethane | 124-48-1 | 0.4 | BRL | ***1.3*** | ***1.9*** | ***0.61 J*** | 0.2 J | BRL | BRL |
| Ethylbenzene | 100-41-4 | 50 | BRL | 0.36 J | BRL | BRL | BRL | BRL | BRL |
| Isopropylbenzene | 98-82-8 | 5 | 0.44 J | 1.6 | BRL | BRL | BRL | BRL | BRL |
| Methyl cyclohexane | 108-87-2 | NS | BRL | 8.5 | BRL | BRL | 0.46 J | BRL | BRL |
| o-Xylene | 95-47-6 | 5 | BRL | 0.31 J | BRL | BRL | 1.4 | BRL | 0.27 J |
| p/m-Xylene | 179601-23-1 | 5 | BRL | 0.83 J | BRL | BRL | 0.49 J | BRL | BRL |
| Toluene | 108-88-3 | 5 | BRL | 0.33 J | BRL | BRL | BRL | BRL | 0.31 J |

## *SVOCs – Groundwater*

| ANALYTES | | APPLICABLE STANDARD | SAMPLE LOCATION / DATE | | | | | |
|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | CAS No. | GWS | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-7 |
| | | | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 |
| Acenaphthene | 83-32-9 | 20 | BRL | BRL | BRL | BRL | 7.9 J | 10 J |
| Acetophenone | 98-86-2 | NR | BRL | 7.6 J | BRL | BRL | 3.5 J | 2.9 J |
| Anthracene | 120-12-7 | 50 | BRL | BRL | BRL | BRL | BRL | 3.1 J |
| Carbazole | 86-74-8 | NR | BRL | BRL | BRL | BRL | 13.3 | 12.9 |
| Dibenzofuran | 132-64-9 | NR | BRL | BRL | BRL | BRL | BRL | 7.2 J |
| Dimethyl phthalate | 131-11-3 | 50 | 0.47 J | 16.4 J | 9.8 J | BRL | BRL | 2.8 J |
| Fluoranthene | 206-44-0 | 50 | BRL | BRL | BRL | BRL | BRL | 3.3 J |
| Fluorene | 86-73-7 | 50 | BRL | BRL | BRL | BRL | 8.5 J | 8.3 J |
| 2-Methylnaphthalene | 91-57-6 | NR | BRL | BRL | BRL | BRL | 69.1 | 8.1 J |
| Naphthalene | 91-20-3 | 10 | BRL | BRL | BRL | BRL | ***43.3*** | ***45.9*** |
| Phenanthrene | 85-01-8 | 50 | BRL | BRL | BRL | BRL | BRL | 16.8 |
| Pyrene | 129-00-0 | 50 | BRL | BRL | BRL | BRL | BRL | 2.4 J |

## *Metals – Groundwater*

| ANALYTES | | APPLICABLE STANDARD | SAMPLE LOCATION / DATE | | | | | |
|---|---|---|---|---|---|---|---|---|
| Metal | CAS No. | GWS | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-7 |
| | | | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 | 11/16/15 |
| Aluminum | 7429-90-5 | NS | 78700 | 68600 | 56500 | 41200 | 212 | 8830 |
| Antimony | 7440-36-0 | **3** | BRL | BRL | BRL | BRL | BRL | BRL |
| Arsenic[8] | 7440-38-2 | 25 | ***66.4*** | ***180*** | ***52.5*** | ***44.7*** | 4.54 J | 14.9 |
| Barium[8] | 7440-39-3 | 1000 | ***11100*** | ***3040*** | ***2210*** | 695 | 48.9 | 110 |
| Beryllium | 7440-41-7 | 3 | ***9.74*** | ***12.5*** | ***11.3*** | ***5.3*** | BRL | 0.99 J |
| Cadmium[8] | 7440-43-9 | 5 | ***81.9*** | ***11.5*** | ***7.85*** | ***6.49*** | BRL | ***7.37*** |
| Calcium | 7440-70-2 | NS | 93500 | 190700 | 165100 | 102900 | 116700 | 92900 |
| Chromium[8] | 7440-47-3 | 50 | ***275*** | ***147*** | ***84.4*** | ***101*** | 1.64 J | 23.9 |
| Cobalt | 7440-48-4 | NS | 121 | 73.9 | 53.2 | 55.3 | 6.3 J | 17.1 |
| Copper | 7440-50-8 | 200 | ***2630*** | ***5180*** | ***494*** | ***540*** | 5.48 J | ***527*** |
| Iron | 7439-89-6 | 300 | ***265400*** | ***173000*** | ***107300*** | ***99700*** | ***897*** | ***30700*** |
| Lead[8] | 7439-92-1 | 25 | ***8340*** | ***20900*** | ***693*** | ***698*** | 4.86 J | ***1550*** |
| Magnesium | 7439-95-4 | 35,000 | 32400 | 28300 | 23600 | 19100 | 4040 | 10500 |
| Manganese | 7439-96-5 | 300 | ***3580*** | ***4630*** | ***2870*** | ***1820*** | ***689*** | ***1330*** |
| Mercury[8] | 7439-97-5 | 0.7 | ***9.93*** | 0.213 | 0.153 J | 0.3 | BRL | 0.258 |
| Nickel | 7440-02-0 | 100 | ***286*** | ***212*** | ***116*** | ***133*** | 12.4 J | 31.1 |
| Potassium | 7440-09-7 | NS | 4810 | 8020 | 6640 | 5930 | 5500 | 3060 |
| Silver[8] | 7782-22-4 | 50 | BRL | 1.32 J | BRL | BRL | BRL | BRL |
| Selenium[8] | 7440-49-2 | 10 | BRL | BRL | BRL | BRL | ***17.8*** | 7.44 |
| Sodium | 7440-23-5 | 20,000 | 3430 | ***126300*** | ***96500*** | ***564000*** | ***59600*** | 5860 |
| Thallium | 7440-28-0 | 0.5 | BRL | BRL | BRL | BRL | BRL | BRL |
| Vanadium | 7440-62-2 | NS | 200 | 134 | 68.7 | 68.2 | BRL | 15.5 J |
| Zinc | 7440-66-6 | 2,000 | ***47100 D*** | ***7080*** | ***3890*** | 1190 | 25.1 | 1880 |



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December 2015 – Draft Analysis of Brownfield Cleanup Alternatives – Bergmann

AECC did not identify any findings of consequence during our review of the draft document. A final report was not provided to AECC.

December 2015 – Draft Remedial Action Work Plan – Bergmann

AECC noted that the descriptions of the AOCs are reversed. AOC#1 is actually the fuel oil-impacted area, and AOC#2 is the suspect UST/gasoline-impacted area. Figures were attached that show the locations of test pits and borings advanced during the Site Investigation. Otherwise, AECC did not identify any findings of consequence during our review of the draft document. A final report was not provided to AECC.

## 2.0 SCOPE OF INVESTIGATION

Based upon the Phase I and II ESAs by Bergmann, Bowers Development, LLC (Bowers) authorized AECC to perform a limited Phase II ESA to clarify and expand on the data collected by Bergmann and to support Bowers' real estate due diligence decision-making.

AECC designed this Limited Phase II ESA consistent with ASTM International Standard Practice E1903–11 (Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, 2011). Specifically, AECC sought to re-evaluate the subsurface conditions around each of the UST graves, the area between the UST graves, along the perimeter of the Site buildings, and the property boundary by:

- Performing a utility location and ground penetrating radar (GPR) survey
- Advancing soil borings to investigate the soil profile (geological logging with olfactory and PID screening)
- Collecting soil samples for laboratory analysis as necessary
- Installing a temporary groundwater monitoring well and collecting a groundwater sample for laboratory analysis

The sub-sections below detail AECC's scope of work.

### 2.1 Utility Clearances and Ground-Penetrating Radar Survey

Prior to initiating subsurface activities, AECCs drilling subcontractor, NYEG Drilling, LLC (NYEG), contacted Dig Safely New York to identify buried public utilities within utility rights-of-way and easements. AECC also subcontracted New York Leak Detection (NYLD) to clear boring and well locations located beyond utility rights-of-way and easements.

While on Site, NYLD used GPR and other geophysical technologies to locate potential subsurface structures (e.g., sewers, tanks, drywells, and concrete) or other anomalies in areas exterior to the Rome-Turney buildings. GPR anomalies were field-marked with flags and/or spray paint. See Section 3.1 for details relating to the geophysical survey.

### 2.2 Subsurface Soil Investigation

In September and October 2018, AECC directed NYEG to advance 19 soil borings across the Site (see Figure 1 for the locations of the borings). Note that the gap in numbering from SB-19 to SB-30 is due to a concurrent investigation on a neighboring parcel along Jasper Street that utilized the same numbering system.



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The soil borings were installed by direct-push sampling methods, using a track-mounted GeoProbe® rig to an approximate depth of 10–20 feet bgs or to refusal. In-field examination of extracted cores included geologic logging, olfactory (odor) evaluation, and headspace analysis of soils from each 5-foot macro-core sample. A 10.6 eV PID was used to perform the headspace analysis to screen for volatile vapors. If a core presented an elevated PID and/or petroleum odor, a sample was collected for VOC analysis using USEPA Method 8260 (TCL list or full list) and SVOC analysis using USEPA Method 8270 (base-neutral list). VOC samples were collected using Terra-Core samplers per USEPA Method 5035. AECC also analyzed shallow soils (top couple of feet) from multiple borings throughout the Site for SVOCs, PCBs (using USEPA Method 8082), and TAL metals (using USEPA Method 6010D). Soils from one boring (SB-17S) were analyzed for Organochlorine Pesticides (using USEPA Method 8080) and Chlorinated Herbicides (using USEPA Method 8151.

AECC placed each soil sample into laboratory-supplied and cleaned containers, then labeled each container and subsequently stored the samples on ice in insulated coolers for transport. Following strict chain-of-custody protocols, AECC transported the sample coolers to a local Alpha Laboratory (Alpha) service center. The samples were then transported by Alpha courier to their Westborough, Massachusetts laboratory.

### 2.3 Groundwater Investigation

In September 2018, AECC located, observed, and measured the depth-to-groundwater of each well (see Section 3.3 for details).

On October 30, 2018, AECC directed NYEG to install a groundwater monitoring well (TW-11) within an existing soil boring (SB-34) in an alcove adjacent to the Site building where the historical Dipping Room was located (see Figure 2 for the locations of the well). Note that the gap in numbering from MW-8 to TW-11 is due to a concurrent investigation on a neighboring parcel along Jasper Street that utilized the same numbering system.
The 1" PVC groundwater monitoring well was installed to a depth of 15' bgs. A sample was collected with a bailer after purging of the well. The samples was analyzed for VOCs using USEPA Method 8260 (full list) and SVOCs using USEPA Method 8270 (base-neutral list).

AECC placed the groundwater sample into laboratory-supplied and cleaned containers, then labeled each container and subsequently stored the samples on ice in insulated coolers for transport. Following strict chain-of-custody protocols, AECC transported the sample coolers to a local Alpha service center. The samples were then transported by Alpha courier to their Westborough, Massachusetts laboratory.

## 3.0 FIELD OBSERVATIONS

AECC completed a utility clearance / GPR Survey, advanced and sampled borings, and installed and sampled groundwater monitoring wells from August - October 2018.

### 3.1 Utility Clearances and GPR Survey

NYLD performed a utility location and GPR survey on August 28, 2018. The survey work Site was limited to the northwest yard. Some areas of the yard (adjacent to the buildings) were overgrown with vegetation, prohibiting an accurate survey. No live utilities were observed.

NYLD detected two subsurface anomalies in the yard. The first is suspected to be the concrete cover in the UST area along the western fenceline (which prohibited Bergmann test pits TP-1 and TP-2). NYLD also detected an unknown linear anomaly (4-5 feet bgs) running proximate to a water line, and running from the gasoline UST northeast to a point where the line tees to the north-northwest and the south-southeast, the latter of which then enters the buildings. The area of the buried lines coincides with areas of elevated soil vapor detected during TES' investigation. The NYLD report is presented as Appendix A.



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### 3.2 Borings

AECC and NYEG advanced borings on September 11, 2018 and October 30, 2018. AECC observed the following soil components in the borings (note that the terminal depth varied by boring, therefore, the following is a summary profile):

- 0–0.5 ft bgs: topsoil
- 0.5–5 ft bgs: coarse to fine sand
- 5–10 ft bgs: clay to clayey-silt with banding of grey coarse to medium sands
- 10–15 ft bgs: clayey-silt overlying various grades of sand
- 15–20 ft bgs: various grades of sand

The following conditions were observed during the advancement of the borings (see also Figure 4).

*September 11, 2018*

- SB-09: Odors, PID up to 89 (max at 2-3' bgs), moist at 2' bgs, wet at 10' bgs
- SB-10: Odors, PID up to 259 (max at 3-3.5' bgs), sheen at 11-14' bgs, moist at 3' bgs, wet at 10' bgs
- SB-11: Odors, PID up to 260 (max at 6.5-8' bgs), moist at 1' bgs, wet at 11' bgs
- SB-12: Odors, PID up to 55 (max at 12-13' bgs), moist at 12' bgs, wet at 13' bgs
- SB-13: Odors, PID up to 1329 (max at 16-17' bgs), moist at 5' bgs, wet at 10' bgs
- SB-14: Odors, PID up to 1143 (max at 12-13' bgs), moist at 1' bgs, wet at 10' bgs
- SB-15: Slight odor, PID up to 53 (max at 6-7' bgs), moist at 5' bgs
- SB-16: PID up to 1.4 (max at 6-7' bgs), moist at 11' bgs, wet at 14' bgs
- SB-17: Odors, PID up to 90 (max at 11-12' bgs), oily at 6.5' bgs, moist at 6.5' bgs, wet at 11' bgs
- SB-18: Creosote odors at 6.5' bgs, PID up to 121 (max at 12-13' bgs), moist at 7' bgs, wet at 15' bgs
- SB-19: PID up to 1.7 (max at 11-12' bgs), moist at 5' bgs
- SB-20: Refusal at 2' bgs (concrete)

*October 30, 2018*

- SB-30: Ash-like fill to 5' bgs
- SB-31: Odors, PID up to 127 (max at 8-9' bgs), moist at 5' bgs, wet at 7' bgs
- SB-32: Odors, PID up to 164 (max at 12-13' bgs), sheen at 12-17' bgs, wet at 5' bgs
- SB-33: Ash-like fill, PID <1.0, wet at 5'
- SB-34: Odors, PID up to 1410 (max at 13-14' bgs), wet at 13' bgs
- SB-35: PID up to 20 (max at 2-3' bgs)
- SB-36: Creosote odors at 6-7' bgs, PID up to 20 (max at 10-11' bgs)

Boring logs are presented as Appendix B. While on the Site, AECC took photographs of the investigation activities, which are presented within Appendix C.

### 3.3 Groundwater Monitoring Wells

*Existing Wells*

The available investigation literature indicated that eight existing groundwater monitoring wells existed on the Site (installed by Bergmann in 2015). On September 11, 2018, AECC located all eight wells, cleared them of debris, checked and recorded the well condition/integrity, and measured the depth-to-groundwater and total



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well depth of each well using an electronic water level indicator. Each well was constructed of 2-inch O.D. Schedule 40 PVC screen and riser, and finished at the surface with a flush-mounted protector. AECC's condition report follows below and Figure 2 provides the locations of the wells and the relative groundwater elevations.

- MW-1 is in the yard between two buildings, within the former fuel oil UST grave. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-2 is in the yard near the entrance to a large building. AECC found the road-box lifted about 2-inches above the pavement, suggesting it suffers from frost heave due to improper construction. After removing the cover, AECC removed debris and water from the well cap and found the well improperly capped. MW-2 appears heavily compromised and it is perhaps best to abandon this well and close it properly.
- MW-3 is in the northern end of the yard near the fenceline. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-4 is located mid-yard along the fenceline, southwest of MW-3. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-5 is located in the yard, western fenceline, between the driveways. AECC found the road-box lifted about 2-inches above the pavement, suggesting it suffers from frost heave due to improper construction. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-6 lies along the western boundary at the southwest corner of the Site, between the collapsed building wall and the former railroad tracks and Canal Street. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-7 is located at the northeast corner of the Site between the building and Erie Boulevard, in a grass-covered area. AECC removed debris and water from the well cap and found the well properly capped with a tight seal.
- MW-8 is located along the eastern Site boundary between the building and Erie Boulevard, in a grass-covered area to the south of MW-7. AECC found the well properly capped with a tight seal.

**TABLE 4—Groundwater Monitoring Well Observations**

| MW # | Depth to Groundwater (ft bgs) | | Well Depth (ft bgs) |
|---|---|---|---|
| | AECC 2018 | Bergmann 2015 | |
| 01 | 0.81 | 2.84 | 8.25 |
| 02 **Δ Φ** | 5.38 | 7.34 | 8.05 |
| 03 | 7.78 | 7.34 | 8.4 |
| 04 | 6.89 | 7.60 | 8.32 |
| 05 **Δ** | 0.81 | 1.10 | 8.25 |
| 06 | 2.86 | 7.94 | 8.27 |
| 07 | 6.75 | 7.31 | 8.27 |
| 08 | N/A (dry) | N/A (dry) | 8.17 |

**Legend:** **Δ** = well damaged **Φ** = well cap not secure

Consistent with the previous TES and Bergmann investigations, there appeared to be two separate aquifers on Site: a shallow aquifer at MW-1 and MW-5, and a deeper aquifer at the remaining wells.



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*Installed Wells*
On October 30, 2018, groundwater was detected at 9.52 feet below the top of the riser. Free product was observed during the development and purging of the well.

## 4.0 LABORATORY ANALYSIS RESULTS

Soil sample analysis results were compared to applicable Unrestricted Soil Cleanup Objectives (SCOs), Commercial Restricted SCOs (RSCOs), and NYSDEC Commissioner's Policy #51 Soil Cleanup Policy (CP-51).

Summary tables comparing detected analyte concentrations to the NYSDEC standards / guidance values are presented as Tables 1 - 5 and are illustrated in Figures 5 - 10. The laboratory analysis reports are presented as Appendix D.

### 4.1 VOCs

AECC collected 10 soil samples for VOC analysis. The following excursions of the Unrestricted Use SCO were identified:

- 2-Butanone (Methyl-ethyl-ketone [MEK]) in boring SB-13
- Naphthalene in boring SB-31D
- Xylenes in borings SB-34 and SB-36

MEK is a known a common laboratory contaminant, and Alpha qualified the detection of MEK. However, the presence of MEK in SB-13 also correlates to the detection of MEK in Bergmann soil borings SB-3 and SB-4. Furthermore MEK was not detected in any other samples, which would be expected if laboratory contamination was the reason for the detections.

Naphthalene was detected at a concentration above the Commercial RSCO in the soil collected from boring SB-36.

Within groundwater collected from TW-11, xylene was detected above the applicable GWS.

It should be noted that the detection limits for the soil sample from SB-36 and the groundwater sample from TW-11 were elevated, suggesting matrix interference caused by petroleum or organic compounds that were not included in the TCL list of compounds (especially when considering the free product observed in TW-11).

### 4.2 SVOCs

The long history of industrial activity at the Site and the know historical presence of leaking fuel oil tanks is anticipated to contribute to the occurrence of detectable concentrations of SVOCs and PAHs. During the investigation, AECC sampled all borings except SB-09 and SB-20 for SVOC analysis. Laboratory analysis of soils revealed the following:

- No compounds from soil in borings SB-13, SB-14, SB-16, and SB-19 were detected at concentrations greater than Unrestricted SCOs
- The concentration of 2-Methylnaphthalene exceeds the Unrestricted SCO in SB-11, SB-12, SB-18, SB-31D, SB-32D, and SB-34
- The concentration of Di-n-butylphthlate exceeds the Unrestricted SCO in SB-36



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- The concentrations of PAHs in borings SB-15 and SB-17 exhibited concentrations greater than Commercial RSCOs
- Samples collected from borings SB-10, SB-15S, and SB-17S exhibited the most compounds with concentrations over Unrestricted SCOs. Note that no SVOCs were detected in deep samples from borings SB-15 or SB-17.
- Samples collected from borings SB-10, SB-17S, and SB-31D exhibited the highest total SVOCs

Within groundwater collected from TW-11, naphthalene and various PAH were detected above their respective GWS.

### 4.3 Metals

The long history of metalworking at the Site is well known and the detection of a variety of metals and metalloids was expected. During the investigation, AECC submitted soil from 15 borings for metals analysis. Laboratory analysis revealed the following:

- All borings except SB-34 (analyzed for lead only) exhibited individual metals concentrations over Unrestricted SCOs. Lead, mercury, arsenic, and cadmium were the primary contaminants.
- The following borings exhibited individual metals concentrations over Commercial RSCOs:
  - SB-10 (arsenic)
  - SB-12 (cadmium, lead, copper): Of particular note, the concentration of copper was 50x the Commercial RSCO.
  - SB-16 (mercury, copper)
  - SB-17 (arsenic, mercury, copper)
  - SB-32S (cadmium, copper, mercury)
  - SB-33 (arsenic, cadmium, lead, mercury)

### 4.4 Polychlorinated Biphenyls (PCBs)

Six soil samples were analyzed for PCBs. These samples were surficial or near-surface soils from the following soil borings: SB-10, SB-12, SB-15S, SB-16, SB-17S, and SB-19. Trace concentrations of individual Aroclors were detected in one of the samples (SB-17S), but the total PCB concentration in this sample was less than the Unrestricted SCO.

### 4.5 Organochlorine Pesticides

AECC submitted a single sample for organochlorine pesticide analysis (SB-17S). The detected concentrations of 4,4'-DDE and 4,4'-DDT were greater than their respective Unrestricted SCOs.

### 4.6 Chlorinated Herbicides

There were no detectable concentrations in the single sample (SB-17S) analyzed for chlorinated herbicides.

## 5.0 SUBSEQUENT REMEDIATION OF GASOLINE USTS

Construction Plans and Specifications to remove petroleum contaminated soil in excess of Part 375 Restricted Residential RSCOs were prepared by Barton & Loguidice, D.P.C. (B&L). Paragon Environmental Construction, Inc. (Paragon) was awarded the remediation contract. Construction administration and full time inspection of the excavation activities was performed by B&L. The remediation work was completed between August 13 and September 12, 2019, and was confined to the courtyard area inside of the site access gates.



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B&L prepared a Remediation Certification Report (dated January 2020). The following paragraphs are excerpts from the report:

> *During the excavation of AOC #1, an underground natural gas supply line was exposed on the northern excavation sidewall. Although PID readings were under 10 ppm, visual staining of soil was observed in the vicinity of the natural gas supply line, and the Contractor was instructed to avoid further excavation in that area.*
>
> *Subsequent to shutting off the water line and de-watering the excavation, free product was observed seeping into the excavation along the southern excavation sidewall approximately 10- to 15-feet bgs.*
>
> *In addition to the 15,000 gallon tanks, an underground pipe was discovered and although there was no obvious indication of a tank on the surface nor in the open excavation, it was assumed to be connected to an unknown tank based on the observed free flowing product entering the excavation along the western sidewall of AOC #2. Due to limited City funds, excavation did not continue in the direction of the unknown pipe, and as a result, the pipe was cut and capped in place.*
>
> *As specified in the July 2018 RAWP, a groundwater sample (GW-1) was collected from AOC #1 where free floating product was present. Given the observed presence of residual petroleum product on the groundwater surface in AOC #2, a NYSDEC representative agreed that the collection of a second groundwater sample was not required due to the observed visual impact, and the groundwater was treated as petroleum contaminated.*

PID headspace readings of the excavation sidewalls and bottom are reproduced below:

| **Sample ID (AOC #1)** | **PID (ppm)** |
|---|---|
| N. Wall - 0 | 4.5 |
| N. Wall - 1 | 9.0 |
| N. Wall - 2 | 2.3 |
| W. Wall | 13.8 |
| E. Corner | 397 |
| S. Corner - 1 | 30 |
| S. Corner - 2 | 0.9 |
| S. Corner - 3 | 3.1 |
| S. Wall | 67 |
| Bottom - 1 | 50.0 |
| Bottom - 2 | 29 |
| **Sample ID (AOC #2)** | **PID (ppm)** |
| Sidewall - 1 | 223 |
| Sidewall - 2 | 36.3 |
| Sidewall - 3 | 70.2 |
| Sidewall - 5 | 42.4 |
| Bottom - 3 | 13.2 |
| Bottom - 4 | 18.1 |



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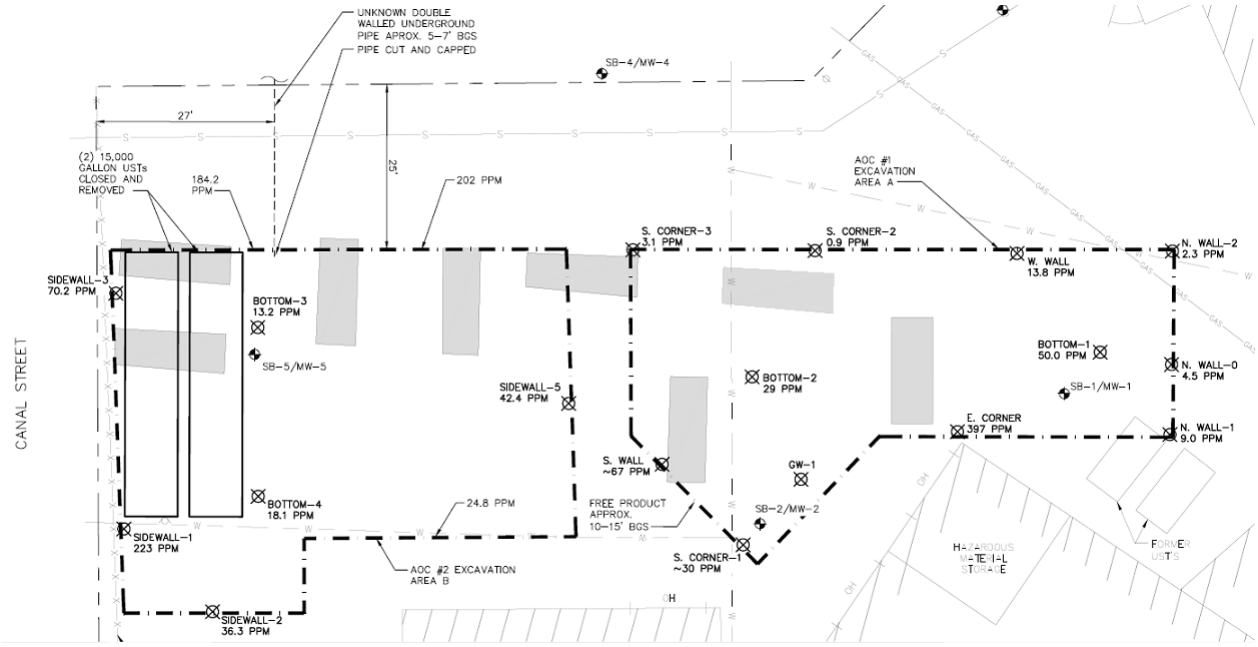
For reference, an excerpt from the figure attached to the report is presented below. Note that the shaded rectangles in the figure represent the locations of the test pits excavated by Bergmann in 2015.




B&L concluded the following (excerpt):

> *To address subsurface petroleum impacts associated with the Former Rome-Turney courtyard area located within the site access gates, remedial efforts to excavate and dispose of petroleum contaminated soil was completed by Paragon Environmental Construction, Inc. during the period between August 13 and August 23, 2019. Two excavation areas were authorized by the City of Rome, resulting in the excavation, transportation, and disposal of 2,879.51 tons of petroleum contaminated soil and 114,535 gallons of petroleum contaminated groundwater. Confirmation soil samples analyzed for TAL metals revealed contaminant impacts in excess of Part 375 Restricted Residential SCOs for cadmium, lead, and mercury, along with persistent detections of copper, iron, nickel, and zinc.*
>
> *The remedial confirmation soil sampling and elevated PID headspace readings indicate potential contamination beyond the bottom of AOC #1 excavation area and to the north, east, and south, and beyond the bottom of AOC #2 excavation area and to the south and west. It is also a potential that an additional underground tank exists due to an observed pipe that was discovered and capped along the western sidewall of AOC #2 excavation area. Further site characterization is recommended, and an easement [assessment] of remedial strategies and clean-up goals may be required. It is likely that further excavation of petroleum contaminated soil will be required under a subsequent remedial cleanup project.*

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information derived from this limited Investigation, the following conclusions and recommendations have been developed:

- The Site has an extensive manufacturing/industrial history, which has included the presence of USTs, gasoline and oil houses, transformer yard, and dipping room.



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- Two fuel oil USTs were removed from an area adjacent to the buildings in 1988.
- A subsurface investigation was performed in 1996 by TES. The investigation revealed free product and dissolved-phase gasoline and fuel oil in the area where the USTs were removed in 1988. A soil gas survey revealed elevated concentrations of volatile vapors in the central portion of the yard (see Figure 3).
- Subsurface investigations were performed in 2015 by Bergmann, and in 2018 by AECC. The investigations revealed (see also Figures 4 - 10):
    - Based on relative groundwater elevations, there appear to be two separate aquifers on Site: a shallow aquifer in the central portion of the yard (at MW-1 and MW-5), and a deeper aquifer throughout the Site. However, as shown in Figure 2, NYLD detected water lines in the vicinity of wells MW-1 and MW-5. Furthermore, the chemicals associated with municipal water supply (chloroform, dibromochloromethane, and bromodichloromethane) were detected in Site groundwater. Therefore, it is possible that a water line leak is responsible for the shallow aquifer.
    - Laboratory analysis revealed that pesticides, herbicides, PCBs, and chlorinated VOCs are not primary chemicals of concern. However, during the AECC investigation, DDT and DDE were detected at concentrations above Unrestricted SCOs in the one sample analyzed for pesticides.
    - Elevated PID readings exist in the western portion of the Site. The elevated readings correlate to the 1996 soil gas results and the location of known underground utilities.
    - In soils: VOC impacts in soils are limited; and SVOC (PAH) and metals impacts are widespread
    - In groundwater: VOC, SVOC (PAH), and metals impacts are widespread
- In 2019 (after AECC site investigation activities), limited remedial activities were completed in the courtyard area inside of the site access gates. During the remedial activities, two 15,000-gallon USTs were removed from an area adjacent to the western property border. A 10,000-gallon gasoline UST and gasoline house were noted in this area on historical Sanborn fire insurance maps. Contamination remained after excavations reached their designed dimensions. Of particular note, staining and elevated PID readings existed in the sidewalls and bottoms, and free product was observed on groundwater. B&L recommended:

    *"Further site characterization is recommended, and an easement [assessment] of remedial strategies and clean-up goals may be required. It is likely that further excavation of petroleum contaminated soil will be required under a subsequent remedial cleanup project."*

If you should have any questions regarding the information presented in this report, please feel free to contact our corporate office (315) 432-9400 at your convenience. AECC appreciates the opportunity to work with you on this important project.

Sincerely,

Asbestos & Environmental Consulting Corporation

Richard D. "Rico" McKenna
Senior Project Manager

Drew Brantner
Environmental Scientist



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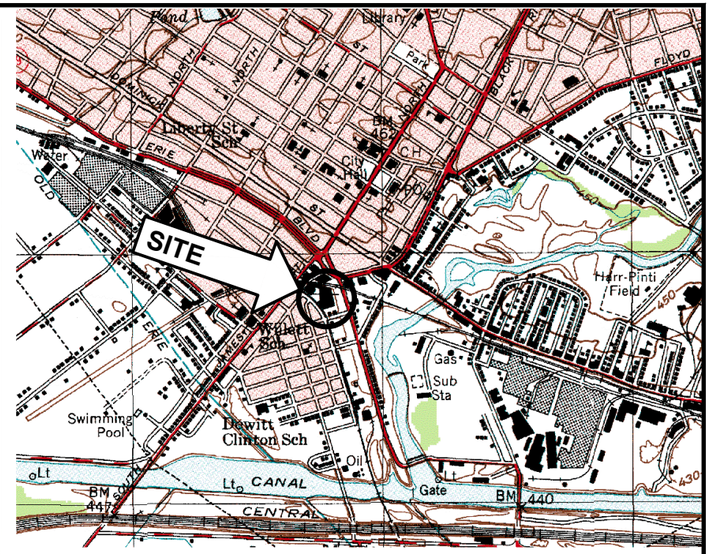
# FIGURES


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- SOIL BORING LOCATION
- SOIL BORING WITH INSTALLED MONITORING WELL
- TEST PIT LOCATION

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

GRAPHIC SCALE



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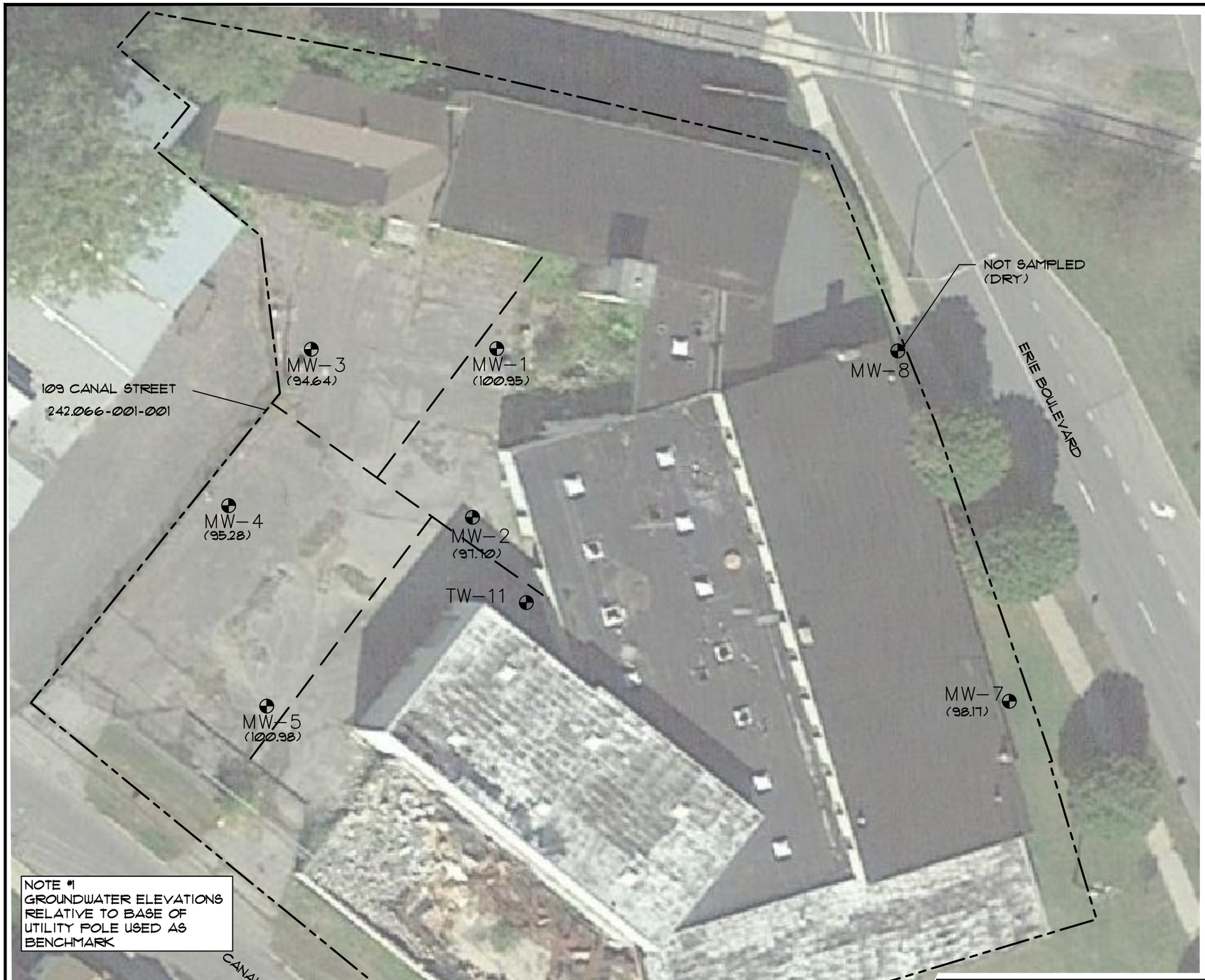
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

| | |
|---|---|
| PROJECT NO. | 18-046 |
| DRAWN: | MAR 2020 |
| DRAWN BY: | NP |
| CHECKED BY: | RM |

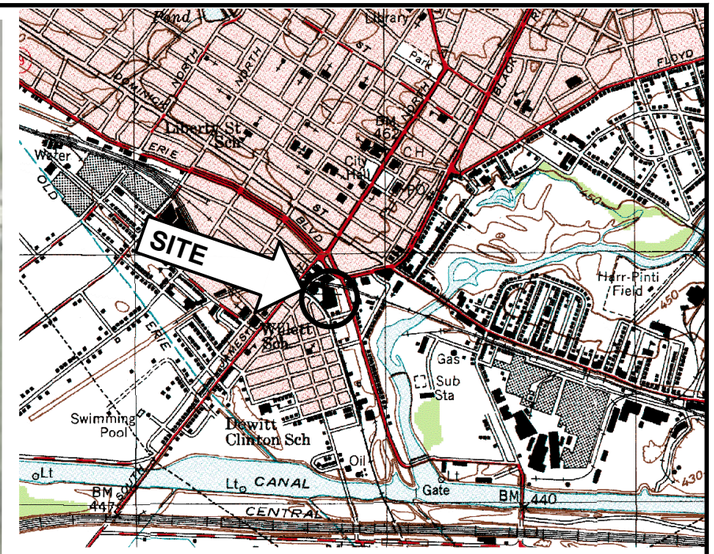
**SOIL BORING AND TEST PIT LOCATION PLAN**
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE
1






SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- MONITORING WELL LOCATION (RELATIVE GROUNDWATER LOCATION)
- APPROXIMATE LOCATION OF BURIED WATER LINES IDENTIFIED DURING AUGUST 2018 UTILITY INVESTIGATION

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

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# MONITORING WELL LOCATION PLAN
AND GROUNDWATER ELEVATION PLANS
(BERGMANN AND AECC INVESTIGATIONS)

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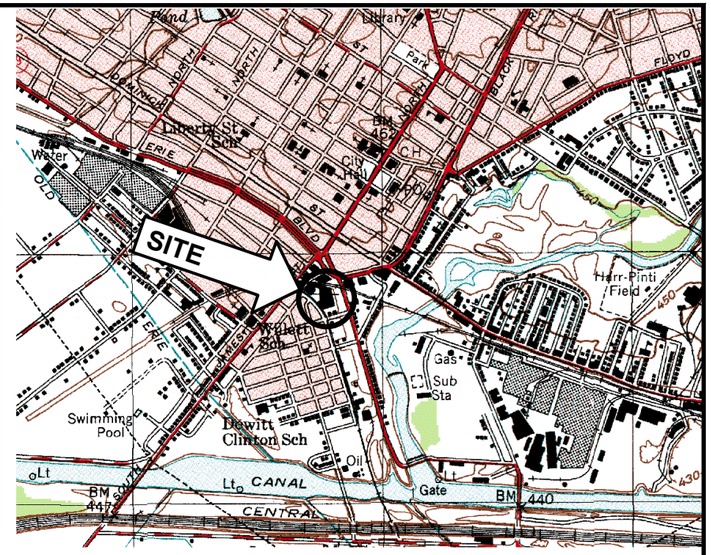
FIGURE
2


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- SOIL VAPOR CONCENTRATIONS <5 PPM
- SOIL VAPOR CONCENTRATIONS 5-50 PPM
- SOIL VAPOR CONCENTRATIONS >50 PPM

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.
4. INSERT FROM 1996 SUBSURFACE INVESTIGATION REPORT (THEAL ENVIRONMENTAL SERVICES)

0 32' 64'

GRAPHIC SCALE



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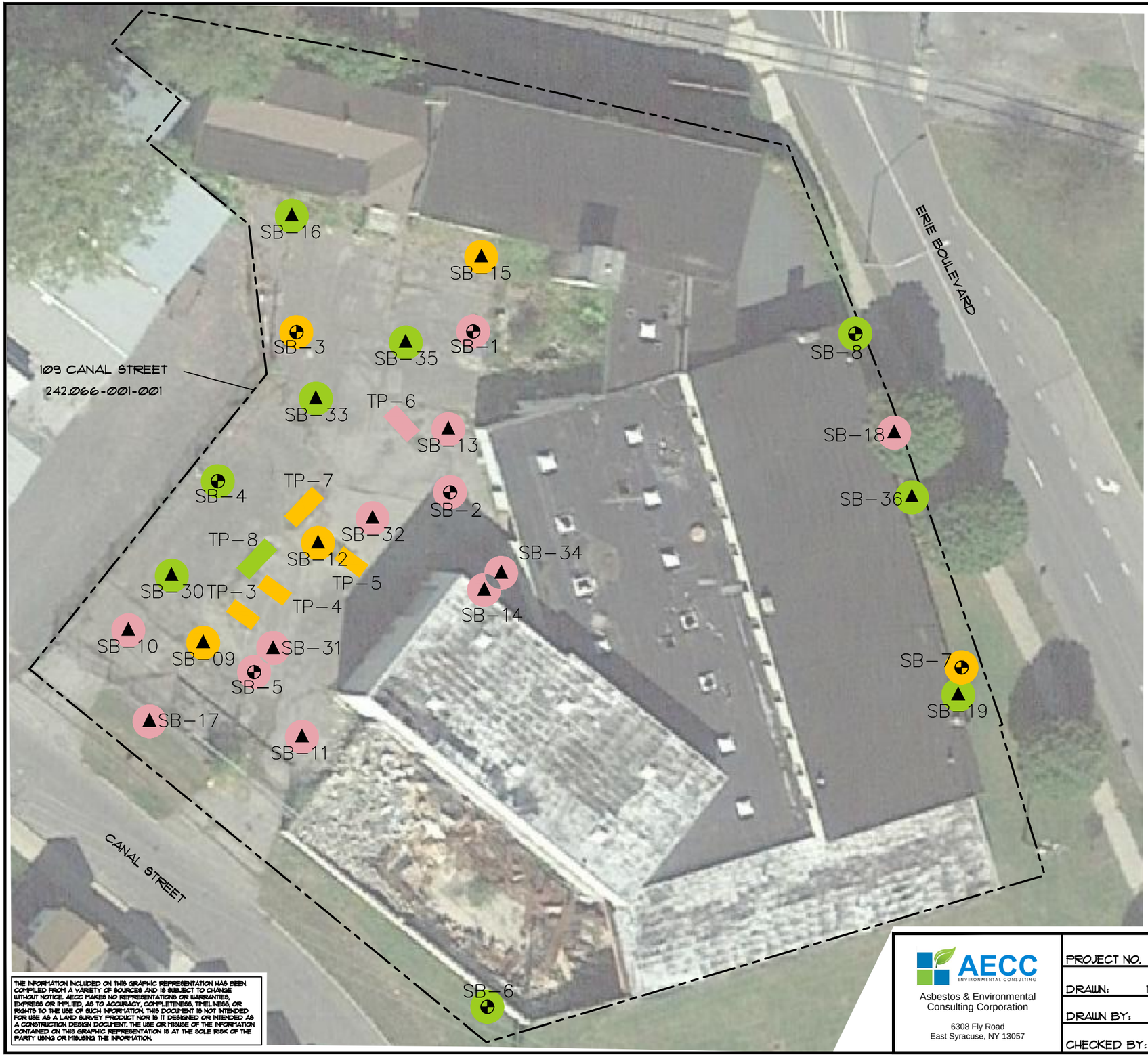
# 1996 SUBSURFACE AND SOIL VAPOR INVESTIGATION RESULTS

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE 3

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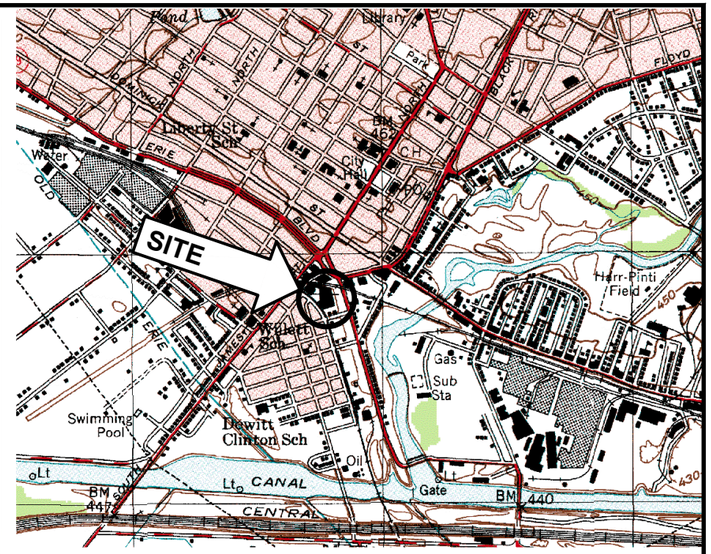


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- MAXIMUM PID READING ≤ 20 PPM
- MAXIMUM PID READING 20-100 PPM
- MAXIMUM PID READING ≥ 100 PPM, OR SHEENS, FREE PRODUCT, ETC.

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

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GRAPHIC SCALE

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Asbestos & Environmental Consulting Corporation

6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 18-046
DRAWN: MAR 2020
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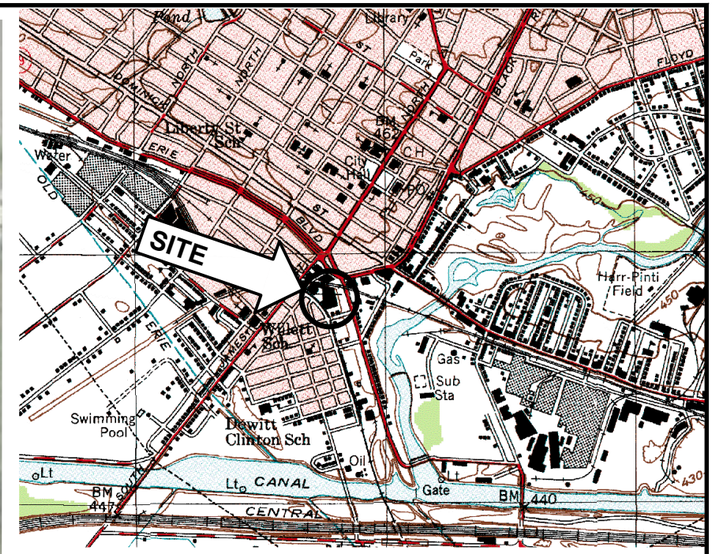
**PID RESULTS (BERGMANN AND AECC INVESTINGATIONS)**

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE 4


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- CONTAMINANTS DETECTED BELOW UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE COMMERICAL RSCO

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

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GRAPHIC SCALE



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Asbestos & Environmental Consulting Corporation
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**SOIL ANALYTICAL RESULTS**
**VOLATILE ORGANIC COMPOUNDS**
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE
5


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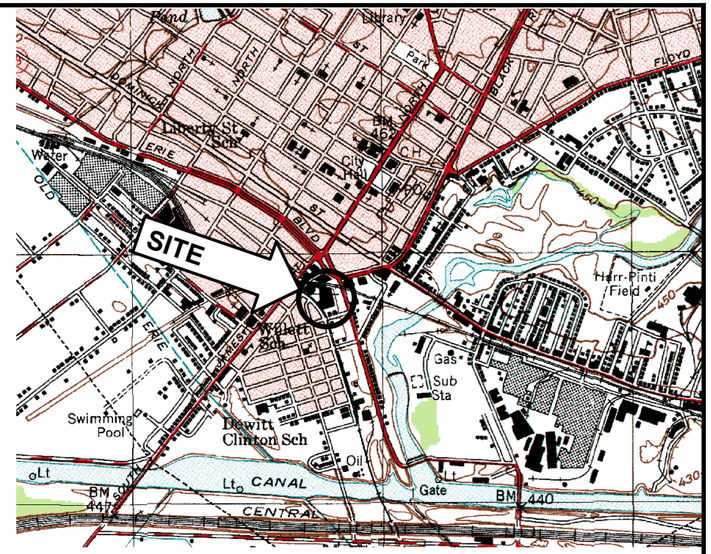


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- CONTAMINANTS DETECTED BELOW UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE COMMERICAL RSCO

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

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| DRAWN BY: | NP |
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**SOIL ANALYTICAL RESULTS-**
**SEMI-VOLATILE ORGANIC COMPOUNDS**
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
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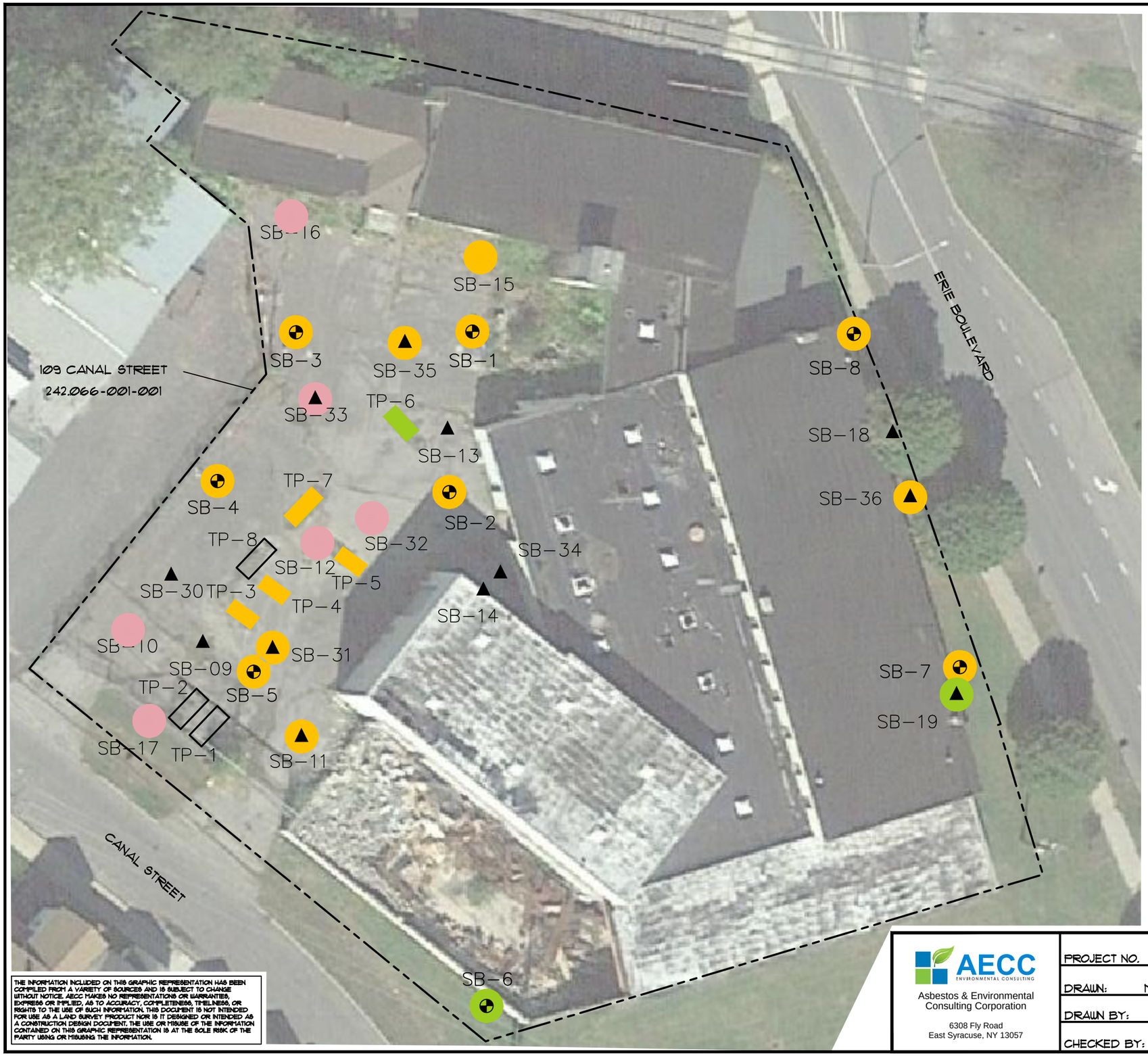
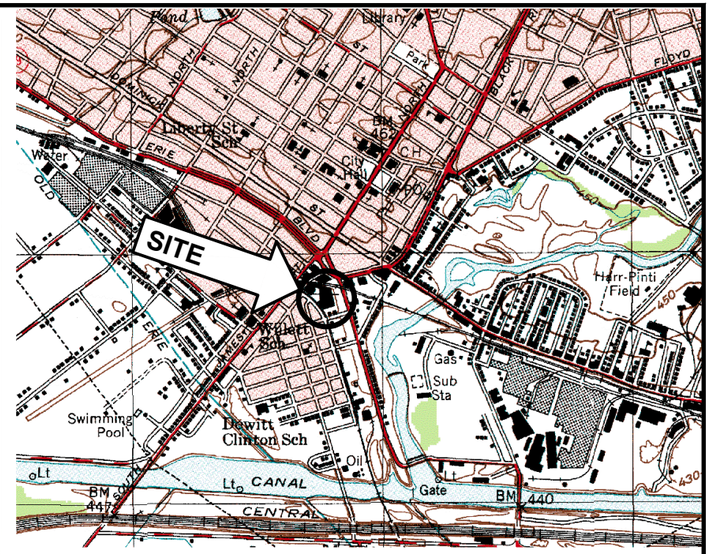
FIGURE
6




SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- CONTAMINANTS DETECTED BELOW UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE UNRESTRICTED SCO
- CONTAMINANTS DETECTED ABOVE COMMERICAL RSCO

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

GRAPHIC SCALE



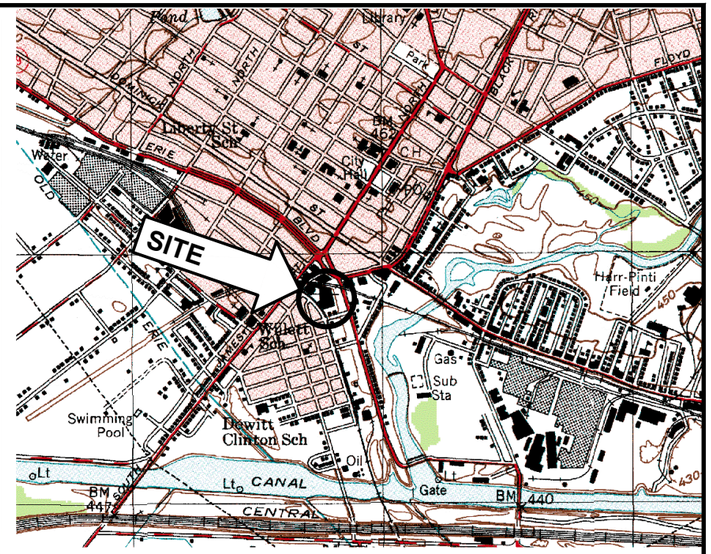
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

| | |
|---|---|
| PROJECT NO. | 18-046 |
| DRAWN: | MAR 2020 |
| DRAWN BY: | NP |
| CHECKED BY: | RM |

**SOIL ANALYTICAL RESULTS- RCRA 8 METALS**
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE 7


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- MONITORING WELL LOCATION
- CONTAMINANTS DETECTED BELOW TOGS 1.1.1 GROUNDWATER STANDARD.
- CONTAMINANTS DETECTED ABOVE TOGS 1.1.1 GROUNDWATER STANDARD.

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

GRAPHIC SCALE



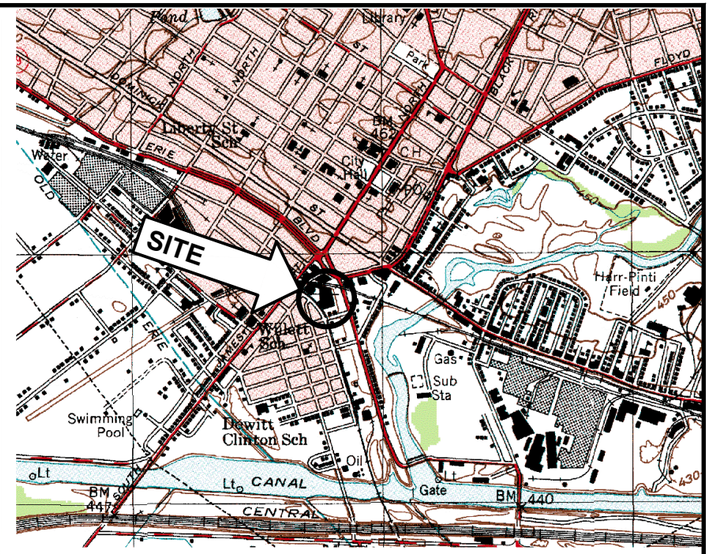
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

| | |
|---|---|
| PROJECT NO. | 18-046 |
| DRAWN: | MAR 2020 |
| DRAWN BY: | NP |
| CHECKED BY: | RM |

**GROUNDWATER ANALYTICAL RESULTS-**
VOLATILE ORGANIC COMPOUNDS
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE
8


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- MONITORING WELL LOCATION
- CONTAMINANTS DETECTED BELOW TOGS 1.1.1 GROUNDWATER STANDARD.
- CONTAMINANTS DETECTED ABOVE TOGS 1.1.1 GROUNDWATER STANDARD.

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

GRAPHIC SCALE



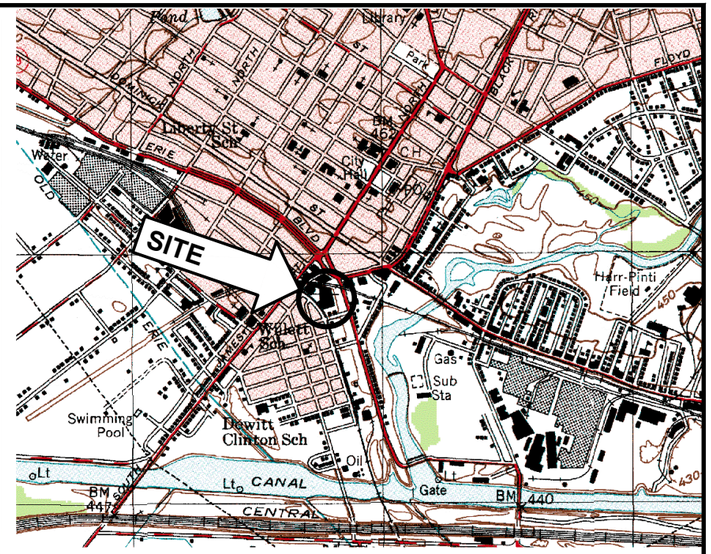
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 18-046
DRAWN: MAR 2020
DRAWN BY: NP
CHECKED BY: RM

**GROUNDWATER ANALYTICAL RESULTS-**
SEMI-VOLATILE ORGANIC COMPOUNDS
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE
9


SITE LOCATION

**LEGEND:**

- PROPERTY LINE
- MONITORING WELL LOCATION
- CONTAMINANTS DETECTED BELOW TOGS 1.1.1 GROUNDWATER STANDARD.
- CONTAMINANTS DETECTED ABOVE TOGS 1.1.1 GROUNDWATER STANDARD.

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON GISCLOUD WEBSITE.
3. ALL LOCATIONS ARE APPROXIMATE.

0 32' 64'

GRAPHIC SCALE



AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 18-046
DRAWN: MAR 2020
DRAWN BY: NP
CHECKED BY: RM

# GROUNDWATER ANALYTICAL RESULTS-
RCRA 8 METALS
(BERGMANN AND AECC INVESTIGATIONS)

FORMER ROME TURNEY RADIATOR COMPANY
109 CANAL STREET
ROME, NEW YORK 13440

FIGURE
10

# TABLES

# GENERAL NOTES / LEGEND

*SCO - Unrestricted Soil Cleanup Objective per 6 NYCRR 375, Table 375-6.8(a) and/or the lowest of the three values for protection of groundwater, ecological resources, and public health as presented in 6 NYCRR 375, Table 375-6.8(b)*

*RSCO - Restricted Soil Cleanup Objective per 6 NYCRR 375, Table 375-6.8(b) and NYSDEC Soil Cleanup Guidance Policy 51 Tables 1, 2, and 3*

*GWS - Ambient Groundwater (Class GA) guidance value or standard per NYSDEC Technical and Operational Guidance Series (1.1.1)*

*NS - No SCO/RSCO or GWS for this compound*

*NA - Sample not analyzed for this compound*

*BRL - Below Reportable Limit (i.e. - analyte not present or not detected at a concentration above the method detection limit [MDL])*

*J - Estimated concentration. The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).*

*RE Results reported are from reanalysis of sample due to original analysis being outside acceptable laboratory quality control standards*

| | |
|---|---|
| ***Box + Bold*** | *Compound concentration exceeds the Unrestricted Use SCO* |
| ***Box + Bold + Shading*** | *Compound concentration exceeds the Commercial Use RSCO or the applicable GWS* |

**TABLE 1**
Soil Analysis Summary (Hits Only) - VOCs
Method SW-846 8260

**Limited Phase II ESA**
Former Rome Turney Site
109 Canal Street, Rome, NY
AECC Project No. 18-046

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | Cas No. | Commercial RSCO | Unrestricted SCO | SB-11 | SB-13 | SB-14 | SB-15D | SB-17D | SB-18 |
| | | | | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 190 | 3.6 | NA | NA | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | 108-67-8 | 190 | 8.4 | NA | NA | NA | NA | NA | NA |
| 2-Butanone | 78-93-3 | 500 | 0.12 | BRL | ***0.28 J*** | BRL | BRL | BRL | BRL |
| Bromomethane | 74-83-9 | NS | NS | BRL | BRL | BRL | BRL | BRL | BRL |
| Cyclohexane | 110-82-7 | NS | NS | 0.044 J | BRL | 0.061 J | BRL | 0.057 J | BRL |
| Ethylbenzene | 100-41-4 | 390 | 1 | 0.036 J | 0.022 J | 0.024 J | BRL | BRL | BRL |
| Isopropylbenzene | 98-82-8 | NS | 2.3 | 0.17 | 0.0099 J | 0.054 J | 0.18 J | 0.14 | BRL |
| Methyl Acetate | 79-20-9 | NS | NS | 0.12 J | 0.17 J | BRL | BRL | 0.19 J | BRL |
| Methyl cyclohexane | 108-87-2 | NS | NS | 0.32 | 0.24 J | 0.26 J | 2 | 0.5 | 0.073 J |
| Naphthalene | 91-20-3 | 500 | 12 | NA | NA | NA | NA | NA | NA |
| n-Butylbenzene | 104-51-8 | 500 | 12 | NA | NA | NA | NA | NA | NA |
| n-Propylbenzene | 103-65-1 | 500 | 3.9 | NA | NA | NA | NA | NA | NA |
| o-Xylene | 95-47-6 | 500 | 0.26 | BRL | BRL | BRL | BRL | BRL | BRL |
| p/m-Xylene | 179601-23-1 | | | 0.06 J | 0.074 J | BRL | BRL | BRL | BRL |
| p-Isopropyltoluene | 99-87-6 | NS | 10 | NA | NA | NA | NA | NA | NA |
| sec-Butylbenzene | 135-98-8 | 500 | 11 | NA | NA | NA | NA | NA | NA |
| tert-Butylbenzene | 98-06-6 | 500 | 5.9 | NA | NA | NA | NA | NA | NA |
| TOTAL | N/A | N/A | N/A | 0.8 | 0.8 | 0.4 | 2.2 | 0.9 | 0.1 |

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | |
|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | Cas No. | Commercial RSCO | Unrestricted SCO | SB-31D | SB-32D | SB-34 | SB-36* |
| | | | | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 190 | 3.6 | BRL | 0.099 J | 3 | ***4.4*** |
| 1,3,5-Trimethylbenzene | 108-67-8 | 190 | 8.4 | BRL | 0.04 J | 2 | 2.5 J |
| 2-Butanone | 78-93-3 | 500 | 0.12 | BRL | BRL | BRL | BRL |
| Bromomethane | 74-83-9 | NS | NS | BRL | BRL | 0.035 J | BRL |
| Cyclohexane | 110-82-7 | NS | NS | 0.55 J | 0.05 J | 1.7 | BRL |
| Ethylbenzene | 100-41-4 | 390 | 1 | 0.68 J | BRL | 0.098 | 0.4 J |
| Isopropylbenzene | 98-82-8 | NS | 2.3 | 1.5 | 0.048 J | 0.25 | 0.22 J |
| Methyl Acetate | 79-20-9 | NS | NS | BRL | BRL | BRL | BRL |
| Methyl cyclohexane | 108-87-2 | NS | NS | 3.4 J | 0.83 | 10 | BRL |
| Naphthalene | 91-20-3 | 500 | 12 | ***38*** | 0.67 | 1 | ***520*** |
| n-Butylbenzene | 104-51-8 | 500 | 12 | 2.1 | 0.081 | 0.21 | BRL |
| n-Propylbenzene | 103-65-1 | 500 | 3.9 | 2.8 | 0.09 | 0.33 | BRL |
| o-Xylene | 95-47-6 | 500 | 0.26 | BRL | BRL | BRL | ***2*** |
| p/m-Xylene | 179601-23-1 | | | BRL | BRL | ***1.4*** | ***2.5 J*** |
| p-Isopropyltoluene | 99-87-6 | NS | 10 | BRL | 0.037 J | 0.29 | BRL |
| sec-Butylbenzene | 135-98-8 | 500 | 11 | 1.9 | 0.18 | 0.24 | BRL |
| tert-Butylbenzene | 98-06-6 | 500 | 5.9 | 0.15 J | 0.029 J | 0.068 J | BRL |
| TOTAL | N/A | N/A | N/A | 51.1 | 2.2 | 20.6 | 532.0 |

***Notes:***
*All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)*

**TABLE 2**
Soil Analysis Summary (Hits Only) - SVOCs
Method SW-846 8270

**Limited Phase II ESA**
Former Rome Turney Site
109 Canal Street, Rome, NY
AECC Project No. 18-046

| Semi-Volatile Organic Compounds | Cas No. | Commercial RSCO | Unrestricted SCO | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15D | SB-15S | SB-16 | SB-17D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 |
| 2-Methylnaphthalene | 91-57-6 | NS | 0.41 | ***290 RE*** | ***2.4*** | ***8.1 RE*** | BRL | 0.18 J | BRL | BRL | BRL | BRL |
| Acenaphthene | 83-32-9 | 500 | 20 | 13 | 0.085 J | 0.41 | BRL | 0.052 J | BRL | BRL | 0.072 J | BRL |
| Acenaphthylene | 208-96-8 | 500 | 100 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.049 J | BRL |
| Anthracene | 120-12-7 | 500 | 100 | 6.7 | 0.053 J | 0.11 J | BRL | 0.045 J | BRL | BRL | 0.23 | BRL |
| Benzo(a)anthracene | 56-55-3 | 5.6 | 1 | BRL | BRL | 0.14 | BRL | 0.094 J | BRL | ***1.5 J*** | 0.64 | BRL |
| Benzo(a)pyrene | 50-32-8 | 1 | 1 | BRL | BRL | 0.13 J | BRL | 0.072 J | BRL | ***1.6 J*** | 0.57 | BRL |
| Benzo(b)fluoranthene | 205-99-2 | 5.6 | 1 | BRL | BRL | 0.16 | BRL | 0.085 J | BRL | ***2.1*** | 0.71 | BRL |
| Benzo(ghi)perylene | 191-24-2 | 500 | 100 | BRL | BRL | 0.079 J | BRL | 0.048 J | BRL | 1.1 J | 0.36 | BRL |
| Benzo(k)fluoranthene | 207-08-9 | 56 | 0.8 | BRL | BRL | 0.069 J | BRL | 0.049 J | BRL | 0.75 J | 0.28 | BRL |
| Biphenyl | 92-52-4 | NS | NS | 1.6 J | BRL | 0.42 J | BRL | BRL | BRL | BRL | BRL | BRL |
| Carbazole | 86-74-8 | NS | NS | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.065 J | BRL |
| Chrysene | 218-01-9 | 56 | 1 | BRL | BRL | 0.17 | BRL | 0.082 J | BRL | ***1.7 J*** | 0.64 | BRL |
| Dibenzo(a,h)anthracene | 53-70-3 | 0.56 | 0.33 | BRL | BRL | 0.028 J | BRL | BRL | BRL | ***0.5 J*** | 0.094 J | BRL |
| Dibenzofuran | 132-64-9 | 350 | 7 | ***9.7*** | 0.079 J | 0.27 | BRL | 0.041 J | BRL | BRL | 0.044 J | BRL |
| Di-n-butylphthalate | 84-74-2 | NS | 0.014 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| Fluoranthene | 206-44-0 | 500 | 100 | 2.2 J | 0.03 J | 0.25 | BRL | 0.19 | BRL | 3 | 1.5 | BRL |
| Fluorene | 86-73-7 | 500 | 30 | 23 | 0.17 J | 0.55 | BRL | 0.062 J | BRL | BRL | 0.081 J | BRL |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 5.6 | 0.5 | BRL | BRL | 0.086 J | BRL | 0.054 J | BRL | ***1.2 J*** | 0.38 | BRL |
| Naphthalene | 91-20-3 | 500 | 12 | ***65*** | 0.63 | 1.3 | BRL | 0.069 J | BRL | BRL | 0.038 J | BRL |
| Phenanthrene | 85-01-8 | 500 | 100 | 56 | 0.43 | 0.77 | BRL | 0.24 | BRL | 2 J | 1 | BRL |
| Pyrene | 129-00-0 | 500 | 100 | 6.9 | 0.052 J | 0.21 | BRL | 0.17 | BRL | 2.8 | 1.2 | BRL |
| TOTAL | N/A | N/A | N/A | 474.1 | 3.9 | 13.3 | 0.0 | 1.5 | 0.0 | 18.3 | 8.0 | 0.0 |

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | Cas No. | Commercial RSCO | Unrestricted SCO | SB-17S | SB-18 | SB-19 | SB-31D | SB-32D | SB-34 | SB-36 |
| | | | | 9/11/2018 | 9/11/2018 | 9/11/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 |
| 2-Methylnaphthalene | 91-57-6 | NS | 0.41 | ***0.7 J*** | ***1.5*** | BRL | ***52 RE*** | ***3.1*** | ***20 RE*** | 0.12 J |
| Acenaphthene | 83-32-9 | 500 | 20 | 0.58 J | 0.069 J | 0.023 J | 2.1 | 0.15 J | 0.75 | 0.11 J |
| Acenaphthylene | 208-96-8 | 500 | 100 | 0.66 | BRL | BRL | BRL | BRL | BRL | BRL |
| Anthracene | 120-12-7 | 500 | 100 | 2.1 | BRL | 0.065 J | 0.76 | BRL | 0.25 | 0.2 |
| Benzo(a)anthracene | 56-55-3 | 5.6 | 1 | ***6.2*** | BRL | 0.14 | 0.072 J | BRL | 0.17 | 0.36 |
| Benzo(a)pyrene | 50-32-8 | 1 | 1 | ***5.4*** | BRL | 0.12 J | 0.08 J | BRL | 0.075 J | 0.32 |
| Benzo(b)fluoranthene | 205-99-2 | 5.6 | 1 | ***7.6*** | BRL | 0.14 | 0.1 J | BRL | 0.099 J | 0.4 |
| Benzo(ghi)perylene | 191-24-2 | 500 | 100 | **3.4** | BRL | 0.063 J | 0.072 J | BRL | 0.045 J | 0.19 |
| Benzo(k)fluoranthene | 207-08-9 | 56 | 0.8 | ***2.6*** | BRL | 0.052 J | 0.039 J | BRL | 0.036 J | 0.17 |
| Biphenyl | 92-52-4 | NS | NS | BRL | BRL | BRL | 0.22 J | BRL | 1.1 | BRL |
| Carbazole | 86-74-8 | NS | NS | 1.3 | BRL | 0.029 J | BRL | BRL | BRL | 0.11 J |
| Chrysene | 218-01-9 | 56 | 1 | ***6.2*** | BRL | 0.12 | 0.09 J | 0.041 J | 0.18 | 0.33 |
| Dibenzo(a,h)anthracene | 53-70-3 | 0.56 | 0.33 | ***0.95*** | BRL | BRL | BRL | BRL | BRL | 0.051 J |
| Dibenzofuran | 132-64-9 | 350 | 7 | 0.55 J | 0.056 J | 0.022 J | 1.9 | 0.12 J | 0.67 | 0.1 J |
| Di-n-butylphthalate | 84-74-2 | NS | 0.014 | BRL | BRL | BRL | BRL | BRL | BRL | ***0.29*** |
| Fluoranthene | 206-44-0 | 500 | 100 | 12 | BRL | 0.27 | 0.34 | 0.042 J | 0.33 | 0.75 |
| Fluorene | 86-73-7 | 500 | 30 | 0.71 J | 0.11 J | 0.032 J | 3.9 | 0.27 | 1.1 | 0.13 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 5.6 | 0.5 | ***3.9*** | BRL | 0.07 J | 0.064 J | BRL | 0.039 J | 0.21 |
| Naphthalene | 91-20-3 | 500 | 12 | 0.74 J | 0.41 | 0.051 J | ***13*** | 0.36 | 3.5 | 0.24 |
| Phenanthrene | 85-01-8 | 500 | 100 | 9.2 | 0.21 | 0.22 | 9.4 | 0.43 | 1.8 | 0.76 |
| Pyrene | 129-00-0 | 500 | 100 | 11 | 0.043 J | 0.22 | 0.95 | 0.059 J | 0.45 | 0.6 |
| TOTAL | N/A | N/A | N/A | 75.8 | 2.4 | 1.6 | 85.1 | 4.6 | 30.6 | 5.4 |

***Notes:***
*All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)*

**TABLE 3**
Soil Analyses Summary (Hits Only) - TAL Metals
Method SW846 6010C

**Limited Phase II ESA**
Former Rome Turney Site
109 Canal Street, Rome, NY
AECC Project No. 18-046

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Metals | Cas No. | Commercial RSCO | Unrestricted SCO | SB-10 | SB-12 | SB-15S | SB-16 | SB-17S | SB-19 |
| | | | | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 | 9/11/2018 |
| Aluminum, Total | 7429-90-5 | NS | 10000 | 3230 | 9650 | 2060 | 3540 | 5270 | 6190 |
| Antimony, Total | 7440-36-0 | NS | 12 | 2.58 J | BRL | BRL | 4.98 | 4.17 J | 0.502 J |
| Arsenic, Total | 7440-38-2 | 16 | 13 | ***29*** | ***13.5*** | 4.86 | 10.8 | ***20.9*** | 4.09 |
| Barium, Total | 7440-39-3 | 400 | 350 | 67.1 | 132 | 11.2 | 65 | 88.1 | 25.1 |
| Beryllium, Total | 7440-41-7 | 590 | 7.2 | 0.365 J | 0.59 | 0.076 J | 0.458 J | 0.439 J | 0.256 J |
| Cadmium, Total | 7440-43-9 | 9.3 | 2.5 | ***3.73*** | ***9.83*** | ***3.17*** | ***3.81*** | ***3.09*** | 0.332 J |
| Calcium, Total | 7440-70-2 | NS | 10000 | 3270 | ***19400*** | ***261000*** | 2850 | ***35700*** | ***13000*** |
| Chromium, Total | 7440-47-3 | 1500 | 30 | 13.3 | ***69.5*** | 4.69 | 9.96 | 11.1 | 7.58 |
| Cobalt, Total | 7440-48-4 | NS | 20 | 5.95 | 5.64 | 1.84 | 5.66 | 5.99 | 4.76 |
| Copper, Total | 7440-50-8 | 270 | 50 | ***148*** | ***15000*** | 49.1 | ***308*** | ***320*** | 25.5 |
| Iron, Total | 7439-89-6 | NS | 2000 | ***43100*** | ***34700*** | ***8500*** | ***20400*** | ***21300*** | ***14200*** |
| Lead, Total | 7439-92-1 | 1000 | 63 | ***840*** | ***4320*** | ***205*** | **503** | ***770*** | 7.19 |
| Magnesium, Total | 7439-95-4 | NS | NS | 758 | 1420 | 4610 | 641 | 2360 | 2570 |
| Manganese, Total | 7439-96-5 | 10000 | 1600 | 377 | 1340 | 97.7 | 130 | 344 | 458 |
| Mercury, Total | 7439-97-6 | 2.8 | 0.18 | ***0.626*** | ***1.85*** | BRL | ***3.93*** | ***7.51*** | BRL |
| Nickel, Total | 7440-02-0 | 310 | 30 | 13.7 | 16.4 | 5.7 | 13.2 | 16.1 | 11.2 |
| Potassium, Total | 7440-09-7 | NS | NS | 264 | 591 | 274 | 280 | 320 | 305 |
| Selenium, Total | 7782-49-2 | 1500 | 3.9 | 2.2 | 1.85 J | BRL | 2.7 | 1.39 J | 0.654 J |
| Silver, Total | 7440-22-4 | 1500 | 2 | BRL | 1.71 | BRL | BRL | BRL | BRL |
| Sodium, Total | 7440-23-5 | NS | NS | 49.2 J | 112 J | 159 J | 89.4 J | 70.2 J | 23.5 J |
| Thallium, Total | 7440-28-0 | NS | 5 | BRL | BRL | BRL | BRL | BRL | BRL |
| Vanadium, Total | 7440-62-2 | NS | 39 | 38 | 16.8 | 8.39 | 18.6 | 23.8 | 10.1 |
| Zinc, Total | 7440-66-6 | 10000 | 109 | ***371*** | ***6250*** | ***1250*** | ***253*** | ***920*** | 39.2 |

| ANALYTES | | APPLICABLE STANDARDS | | SAMPLE LOCATION / DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Cas No. | Commercial RSCO | Unrestricted SCO | SB-30 | SB-31D | SB-31S | SB-32D | SB-32S | SB-33 | SB-34 | SB-35 | SB-36 |
| | | | | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 | 10/30/2018 |
| Aluminum | 7429-90-5 | NS | 10000 | 2650 | NA | 1620 | NA | 3410 | 3250 | NA | 8660 | 7390 |
| Antimony | 7440-36-0 | NS | 12 | 0.4 J | NA | BRL | NA | 0.657 J | 2.42 J | NA | BRL | 0.486 J |
| Arsenic[8] | 7440-38-2 | 16 | 13 | 7.89 | NA | 7.39 | NA | 4.44 | ***40.1*** | NA | 5.96 | 8.12 |
| Barium[8] | 7440-39-3 | 400 | 350 | 56 | NA | 18.8 | NA | 32.7 | 277 | NA | 81.6 | 94.2 |
| Beryllium | 7440-41-7 | 590 | 7.2 | 0.287 J | NA | 0.329 J | NA | 0.441 J | 0.287 J | NA | 0.555 | 0.458 J |
| Cadmium[8] | 7440-43-9 | 9.3 | 2.5 | 0.226 J | NA | 2.05 | NA | ***27.8*** | ***40.9*** | NA | 0.649 J | 1.38 |
| Calcium | 7440-70-2 | NS | 10000 | 2960 | NA | 2840 | NA | 1590 | 9290 | NA | ***48600*** | 4180 |
| Chromium[8] | 7440-47-3 | 1500 | 30 | 6.86 | NA | 15.6 | NA | 8.38 | 18.3 | NA | 21.5 | 13.2 |
| Cobalt | 7440-48-4 | NS | 20 | 3.9 | NA | 3.24 | NA | 4.45 | 6.79 | NA | 7.97 | 6.72 |
| Copper | 7440-50-8 | 270 | 50 | 22.7 | NA | ***138*** | NA | ***695*** | ***126*** | NA | 37.8 | ***162*** |
| Iron | 7439-89-6 | NS | 2000 | 3210 | NA | ***34000*** | NA | ***29300*** | ***70400*** | NA | ***19400*** | ***19700*** |
| Lead[8] | 7439-92-1 | 1000 | 63 | 40.7 | ***700*** | ***358*** | ***68.8*** | ***205*** | ***1470*** | 7.25 | ***265*** | ***280*** |
| Magnesium | 7439-95-4 | NS | NS | 156 | NA | 508 | NA | 832 | 876 | NA | 3010 | 2800 |
| Manganese | 7439-96-5 | 10000 | 1600 | 45.5 | NA | 575 | NA | 277 | 350 | NA | 450 | 514 |
| Mercury[8] | 7439-97-6 | 2.8 | 0.18 | 0.128 | NA | 0.128 | NA | ***45.8*** | ***28.4*** | NA | ***1.68*** | ***0.26*** |
| Nickel | 7440-02-0 | 310 | 30 | 9.23 | NA | 6.07 | NA | 10.2 | ***31.8*** | NA | 15.8 | 16 |
| Potassium | 7440-09-7 | NS | NS | 291 | NA | 103 J | NA | 109 J | 356 J | NA | 665 | 437 |
| Silver[8] | 7782-49-2 | 1500 | 3.9 | 0.513 J | NA | 0.628 J | NA | 0.451 J | 1.91 J | NA | BRL | BRL |
| Selenium[8] | 7440-22-4 | 1500 | 2 | BRL | NA | BRL | NA | BRL | 0.459 J | NA | BRL | BRL |
| Sodium | 7440-23-5 | NS | NS | 87.7 J | NA | 62.8 J | NA | 28.3 J | 118 J | NA | 102 J | 55 J |
| Thallium | 7440-28-0 | NS | 5 | BRL | NA | BRL | NA | BRL | BRL | NA | BRL | BRL |
| Vanadium | 7440-62-2 | NS | 39 | 15.8 | NA | 37.8 | NA | 22.2 | 16.8 | NA | 18.3 | 19.8 |
| Zinc | 7440-66-6 | 10000 | 109 | 66.4 | NA | ***433*** | NA | ***4850*** | ***6340*** | NA | ***197*** | ***243*** |

***Notes:***
*All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)*
*The SCO for trivalent chromium was used since it is the most common form of chromium*
[8] = RCRA 8 Metal

**TABLE 4**
Groundwater Analysis Summary (Hits Only) - VOCs
Method SW-846 8260

**Limited Phase II ESA**
Former Rome Turney Site
109 Canal Street, Rome, NY
AECC Project No. 18-046

| ANALYTES | | APPLICABLE STANDARD | SAMPLE LOCATION / DATE |
|---|---|---|---|
| **Volatile Organic Compounds** | **CAS No.** | **GWS** | **TW-11** |
| | | | 10/30/2018 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5 | ***240*** |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5 | ***120*** |
| Cyclohexane | 110-82-7 | NS | 31 J |
| Methyl cyclohexane | 108-87-2 | NS | 100 J |
| Naphthalene | 91-20-3 | 10 | ***340*** |
| p/m-Xylene | 179601-23-1 | 5 | ***120*** |

***Notes:***
*All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)*

**TABLE 5**
Groundwater Analysis Summary (Hits Only) - SVOCs
Method SW-846 8260

**Limited Phase II ESA**
Former Rome Turney Site
109 Canal Street, Rome, NY
AECC Project No. 18-046

| ANALYTES | | APPLICABLE STANDARD | SAMPLE LOCATION / DATE |
|---|---|---|---|
| **Semi- Volatile Organic Compounds** | **CAS No.** | **GWS** | **TW-11** |
| | | | 10/30/2018 |
| 2-Methylnaphthalene | 91-57-6 | NS | 7700 RE |
| Acenaphthene | 83-32-9 | 20 | ***320*** |
| Acenaphthylene | 208-96-8 | NS | 110 |
| Anthracene | 120-12-7 | 50 | ***54*** |
| Benzo(a)anthracene | 56-55-3 | 0.002 | ***20*** |
| Benzo(a)pyrene | 50-32-8 | 0 | ***8.8*** |
| Benzo(b)fluoranthene | 205-99-2 | 0.002 | ***11*** |
| Benzo(ghi)perylene | 191-24-2 | NS | 3.1 J |
| Benzo(k)fluoranthene | 207-08-9 | 0.002 | ***3.5 J*** |
| Biphenyl | 92-52-4 | 5 | ***380*** |
| Chrysene | 218-01-9 | 0.002 | ***19*** |
| Dibenzo(a,h)anthracene | 53-70-3 | NS | 1.1 J |
| Dibenzofuran | 132-64-9 | NS | 180 |
| Fluoranthene | 206-44-0 | 50 | 40 |
| Fluorene | 86-73-7 | 50 | ***420*** |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ***4.3 J*** |
| Naphthalene | 91-20-3 | 10 | ***970*** |
| Phenanthrene | 85-01-8 | 50 | ***750*** |
| Pyrene | 129-00-0 | 50 | ***53*** |

***Notes:***
*All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)*

# APPENDIX A

## UTILITY CLEARANCE REPORT

**NYLD** **Infrastructure**

NEW YORK LEAK DETECTION, INC.
PO Box 269 Jamesville, NY 13078
315-469-4601 info@nyld.com

# Field Report – Utility Location

**Date(s) on site:** 08-28-2018

**Technician:** Mike Bishop

**Customer:** Asbestos & Environmental Consulting Corp

**Site Address:** 109 Canal Street Rome, NY

**Contact Person:** Richard McKenna **Phone:** 315-345-1649

**Scope of Work:** Utility Location Services--Clear area within property line for drilling borings.

**Type of Service:** *mark all that apply*

| | | |
|---|---|---|
| ☐ *Leak Detection* | ☐ Comprehensive *Leak Survey* | ☐ *Pressurized Pipe Inspection* |
| ☐ *Infrastructure Assessment* | ☒ *Utility Location/GPR* | ☐ *Utility Mapping/AutoCAD* |
| ☐ *EM Survey* | ☐ *Video Inspection* | ☐ *Valve Exercising* |

---

**Type of Equipment Used:** *mark all that apply*

| | | |
|---|---|---|
| ☐ *Profiler EMP 400* | ☒ *RD8000 Pipe & Cable Locator* | ☐ MetroTech vLocPro2 |
| ☐ *LC2500 Leak Correlator* | ☒ *Noggin 250* mHz | ☐ PosiTector UTG G3 |
| ☐ *S-30 Surveyor* | ☐ Noggin 500 mHz | ☐ *Video Inspection Camera* |
| ☒ *Sonde / Locatable Rodder* | ☐ Conquest 1000 mHz | ☐ *Helium #* *Bottles* |
| ☐ *Leica Robotic Total Station* | ☐ *Leica RTK GPS* | ☐ *JD7 Investigator* |
| ☐ *Valve Maintenance Trailer* | ☐ *Thermal Imaging Camera* | ☐ *ZCorr Data Loggers* |

**Marking Used:** *mark all that apply*

| | | |
|---|---|---|
| ☒ *Paint* | ☒ *Flags* | ☐ *Chalk/Marker* |
| ☐ *Tape* | ☐ *Updated Onsite Mapping* | ☐ *Other* _____ |

**Site Access/Safety Training:** N/A **Expiration Date:** N/A

**Ground Cover/Weather Conditions:** Asphalt, Concrete, Gravel, and Soil. 90's and sunny.

**Instructions from Onsite Contact:** Scan site for utilities.

**NYLD** **Infrastructure**

NEW YORK LEAK DETECTION, INC.
PO Box 269 Jamesville, NY 13078
315-469-4601 info@nyld.com

# Field Report – Utility Location

**Information Transfer:**

In addition to this field report, mark all that apply:

☒ *Information relayed on site to:*

Richard

☐ *Hand drawn sketch*

☐ *Maps updated onsite*

☐ *Photographs*

☐ *Surveyed by others*

☐ *Surveyed and AutoCAD Mapping by NYLD*

**Notes/Testing Results:**

A visual inspection was performed in the area of concern to assess for utility structures. Utilizing the RD8000 in conductive, inductive and power/radio modes, located and marked out utilities as shown in the area below. Sonde/Locatable Rodder was used within applicable utilities. Additional confirmation performed with the Noggin with a 250 MHz antenna. GPR signal reception varies depending upon soil conditions. Therefore, it is utilized in combination with various other geophysical tools for the most accurate verification of known/unknown utilities and/or structures.

Utilities were painted in appropriate color and marked with flags where possible.

**This report is back up to information relayed and marked on site at time of service. It is for informational purposes only.**

**NYLD** **Infrastructure**

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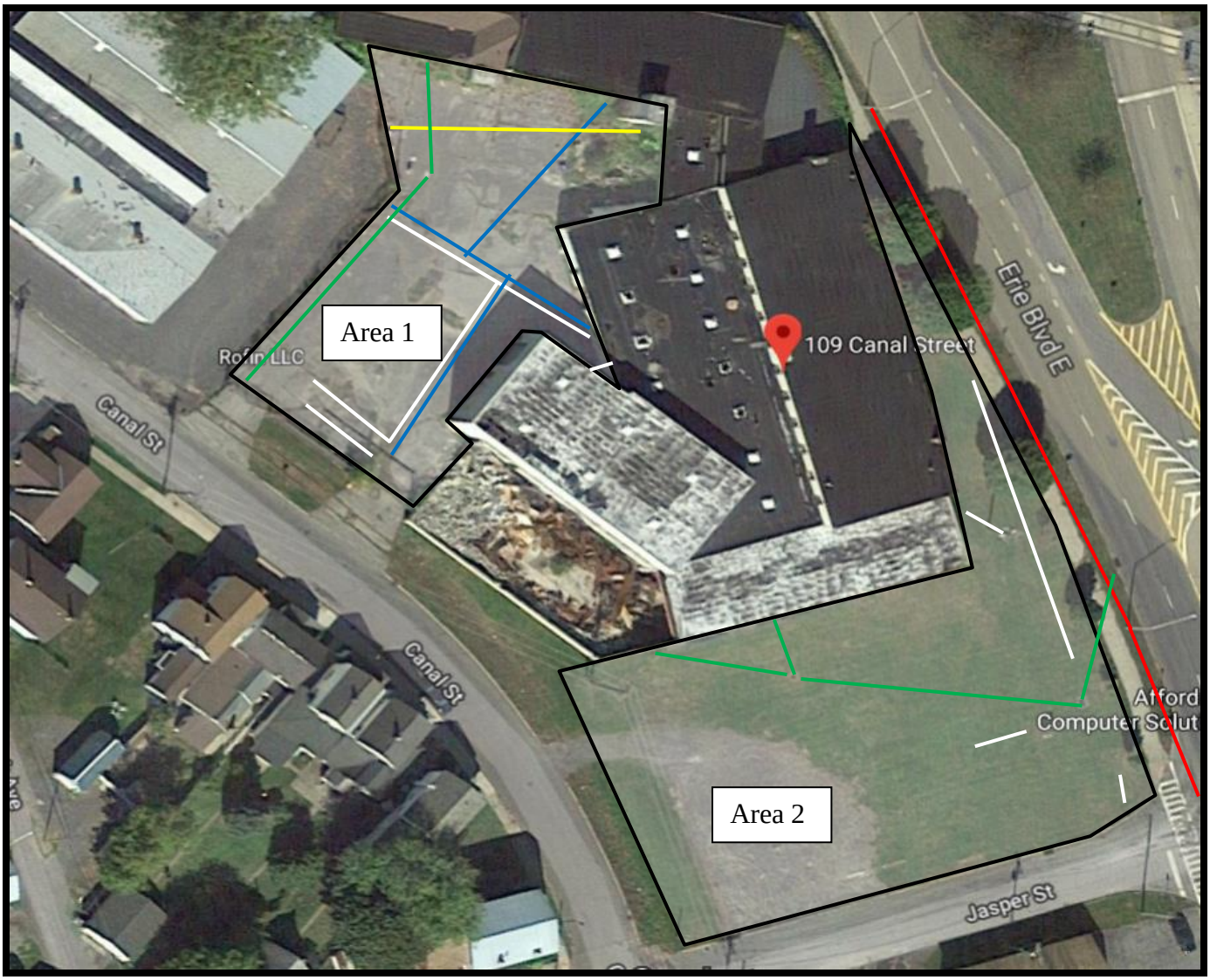
315-469-4601 info@nyld.com

# Field Report – Utility Location

**Key**

| | |
|---|---|
| Blue | Water |
| Red | Power |
| Orange | Communications |
| Yellow | Gas/Flammable Fuel |
| White | Unknown |
| Green | Storm/Sanitary |

Due to thick vegetation and piles of bricks along the building there was some area's with no access to scan. All live utilities however run outside the property line and are disconnected. GPR imagery was approximately 4'-5' deep anything deeper was virtually not visible. Except for the electric line running between the light poles not on the property, electric and communications runs overhead. There were several unknowns found in the area.



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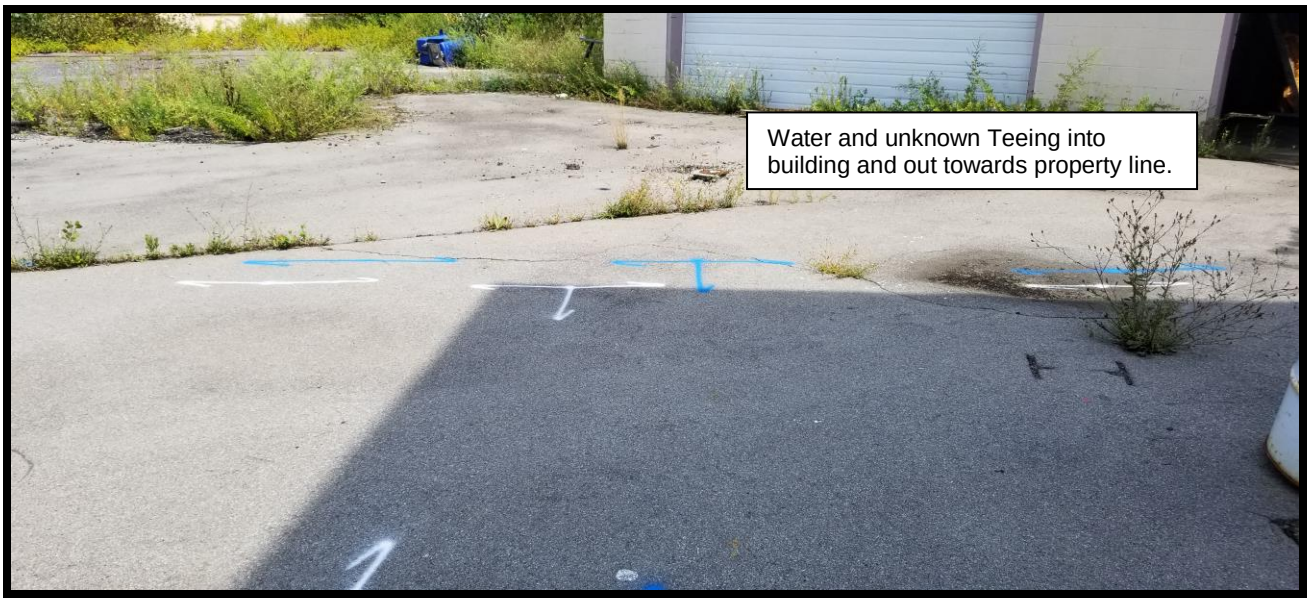
# Field Report – Utility Location

## Area 1





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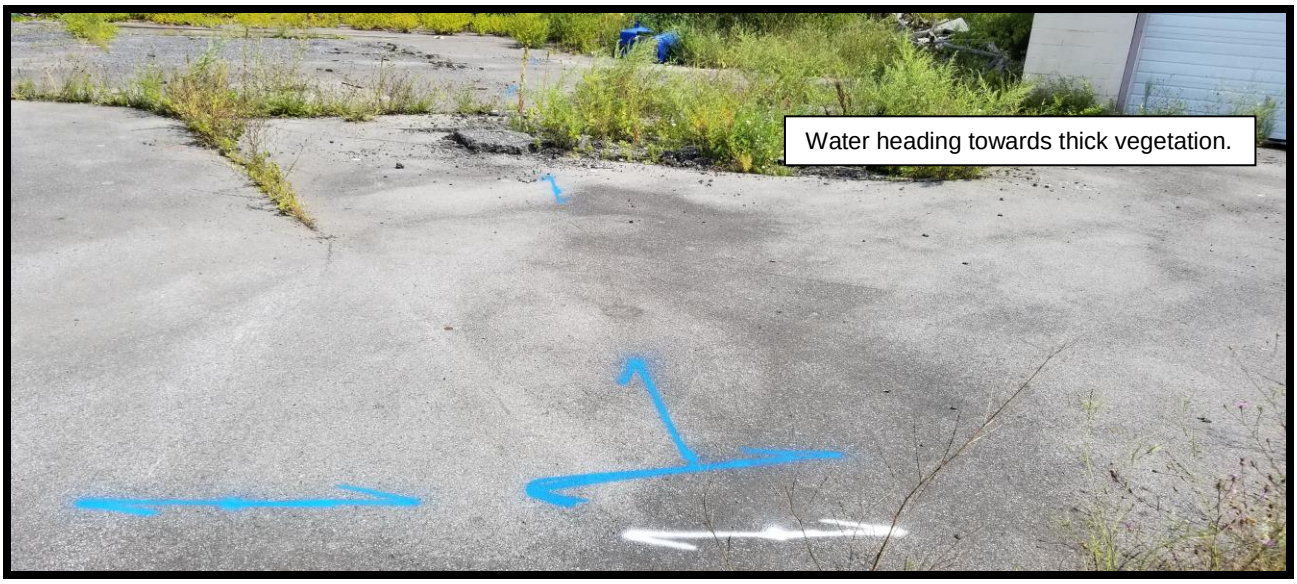
# Field Report – Utility Location





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# Field Report – Utility Location

## Area 2



**NYLD** **Infrastructure**

NEW YORK LEAK DETECTION, INC.
PO Box 269 Jamesville, NY 13078
315-469-4601 info@nyld.com

# Field Report – Utility Location

**Storm Lines for catch basins in Area 2**

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315-469-4601 info@nyld.com

# Field Report – Utility Location

**NYLD** **Infrastructure**

NEW YORK LEAK DETECTION, INC.
PO Box 269 Jamesville, NY 13078
315-469-4601 info@nyld.com

# Field Report – Utility Location

## Subsurface Limitations

Utility locating is the art and science of using non-intrusive methods to search for, find and mark out buried, unseen conduits or other objects. There are innumerable variables involved in locating underground utilities, such as topography, size and complexity of job site, depth and proximity of buried utilities, above ground obstructions, short turnaround schedules, changes in the scope of work, lack of (or outdated) blueprints and adverse weather conditions.

New York Leak Detection, Inc. (NYLD) has made a substantial financial investment in crossover technologies and training to meet our clients' needs when locating and mapping utilities. However, due to unpredictable factors that may affect the results, NYLD makes no guarantee, expressed or implied, with respect to the completeness or accuracy of the information provided. Any use or reliance on the information or opinion is at the risk of the user and NYLD shall not be liable for any damage or injury arising out of the use or misuse of the information provided.

NYLD strives to provide the highest quality utility location services possible with the technical expertise of our field specialists and state-of-the-art equipment used. Every effort is made to provide our clients with the most accurate information possible without adverse consequences.

NYLD makes no guarantee that all subsurface utilities and obstructions will be detected. GPR signal penetration might not be sufficient to detect all utilities. NYLD is not responsible for detecting subsurface utilities and obstructions that normally cannot be detected by the methods employed or that cannot be detected because of site conditions. NYLD is not responsible for maintaining mark-outs after leaving the work area. Mark-outs made in inclement weather and in high traffic areas may not last. Surveyor assumes responsibility of picking up data on site.

# APPENDIX B

## SOIL BORING LOGS

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208248665, -75.458348227 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID: SB-09**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 20' |
| *Water Level:* | |

| | | | | | |
|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* | N/A |
| *Time Start:* | 0936 | | *Screened Interval:* N/A | *Riser Height:* | N/A |
| *Time Finish:* | 1008 | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known) | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 1.2 | 0 - 0.5' - Brown, TOPSOIL/ORGANIC material | |
| | | | | 3.9 | 0.5 - 1.5' - Gray, SILT and very fine sand, slight odor | |
| 2 | | | | 39.7 | 1.5 - 3.25' - Gray, SILT and very fine sand, moist, odor | |
| | | | 3.25' | (89.4) | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| | | | | 19.2 | 5 - 6.25' - Gray, SILT and fine sand, moist, slight odor | |
| 6 | | | | (17.7) | | |
| | | | | 3.5 | 6.25 - 8.25' - Gray, CLAYEY-SILT | |
| 7 | | | 3.25' | | | |
| 8 | | | | 3.1 | | |
| 9 | | | | | | |
| 10 | | | | | | |
| | | | | 13.3 | 10 - 10.75' - Gray, SILT and fine sand, wet, slight odor | |
| 11 | | | | 9.0 | 10.75 - 12.25' - Gray, CLAYEY-SILT, wet, slight odor | |
| 12 | | | 4' | 16.0 | 12.25 - 13.5' - Gray, very fine SAND and SILT, wet, slight odor | |
| 13 | | | | (16.4) | | |
| 14 | | | | | 13.5 - 14' - Light brownish-gray, medium-coarse SAND and coarse gravel (round), wet | |
| 15 | | | | | | |
| | | | | 4.3 | 15 - 16' - Gray, very fine SAND, trace silt, wet (Potential 'slough' from above) | |
| 16 | | | | 0.2 | 16 - 17.25' - Grayish light-brown, medium-coarse SAND, some fine gravel (round), wet | |
| 17 | | | 5' | (1.6) | 17.25 - 20' - Light brown, coarse SAND and fine gravel and coarse gravel (round), wet | |
| 18 | | | | 0.1 | | |
| 19 | | | | | | |
| 20 | | | | | Boring terminated @ 20' bgs | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

*These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).*

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208259511, -75.458435721 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |
| *Monitoring Well?* | *Temporary/Permanent:* N/A *Diameter:* N/A; *Screened Interval:* N/A *Riser Height:* N/A |

**BORING ID: SB-10**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| *Date:* | 9/11/18 |
|---|---|
| *Time Start:* | 1010 |
| *Time Finish:* | 1030 |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 4.4 | 0 - 1.5' - Dark gray, coarse ASPHALT-base / FILL | |
| 2 | | | 3.5' | 84.1 | 1.5 - 3' - Black, medium SAND, some coarse sand, some fine gravel, odor | Sample **SB-10** for SVOCs, PCBs, and Metals |
| 3 | | | | (259) | | |
| 4 | | | | 105 | 3 - 3.5' - Gray, SILT and very fine sand, moist, slight odor | |
| 5 | | | | | | |
| 6 | | | | 68.8 | 5 - 9.75' - Gray, CLAY, trace silt, moist | |
| 7 | | | 4.75' | (135) | **slight odor from ~5 - 7.5' | |
| 8 | | | | 51.8 | | |
| 9 | | | | 19.3 | | |
| 10 | | | | 6.1 | 10 - 11.25' - Gray, CLAYEY-SILT, wet, slight odor | |
| 11 | | | | | 11.25 - 13.75' - Gray, SILTY-fine sand, wet, odor, slight visible sheen | |
| 12 | | | 5' | 32.7 | | |
| 13 | | | | (67.7) | | |
| 14 | | | | 2.8 | 13.75 - 14.5' - Grayish light-brown, medium SAND, trace fine sand, wet, slight odor | |
| 15 | | | | | 14.5 - 15' - Light brown, coarse SAND and fine gravel (round), wet | |
| 16 | | | | | Boring terminated @ 15' bgs | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

*These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).*

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208167974, -75.458233083 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID: SB-11**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| | | | | | |
|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* N/A |
| *Time Start:* | 1033 | | *Screened Interval:* | N/A | *Riser Height:* N/A |
| *Time Finish:* | 1048 | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 15.4 | 0 - 1' - Dark gray, coarse ASPHALT-base / FILL | |
| 2 | | | 2.75' | 97.4<br>(241) | 1 - 2.75' - Dark gray/black, coarse SAND and very coarse sand, trace fine gravel, moist, odor | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | 4.5' | 29.4<br>(260) | 5 - 9.5' - Gray, CLAYEY-SILT, moist, slight odor | Sample **SB-11** for VOCs and SVOCs |
| 7 | | | | | | |
| 8 | | | | 30.4 | | |
| 9 | | | | 10.5 | | |
| 10 | | | 5' | 86.0 | 10 - 10.75' - Gray, CLAYEY-SILT, moist, slight odor (As above, potential 'slough') | |
| 11 | | | | (186) | 10.75 - 12.75' - Gray, SILT and very fine sand, wet, odor | |
| 12 | | | | 98.9 | | |
| 13 | | | | 16.8 | 12.75 - 14' - Gray, medium-fine SAND, trace fine gravel (round), wet, slight odor | |
| 14 | | | | | 14 - 15' - Grayish light-brown, coarse SAND and medium gravel (round), wet | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

*These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).*

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208333669, -75.458213733 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID:**

# SB-12

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* | N/A |
| *Time Start:* | 1102 | | *Screened Interval:* | N/A | *Riser Height:* | N/A |
| *Time Finish:* | 1124 | | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 2.6 | 0 - 1.25' - Light gray, coarse ASPHALT-base / FILL | |
| 2 | | | 3.75' | 12.8 | 1.25 - 2.75' - Gray, coarse SAND, trace very coarse sand | Sample **SB-12** for SVOCs, PCBs, and Metals |
| 3 | | | | (47.4) | 2.75 - 3.75' - Gray, SILTY-fine sand, slight odor | |
| 4 | | | | 4.2 | | |
| 5 | | | | | | |
| 6 | | | | 3.1 | **Material slipped out of liner and was recovered from the sampling rod | |
| 7 | | | ~2' | (6.4) | Gray, CLAYEY-SILT, slight odor | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | 7.8 | 10 - 12.25' - Gray, CLAYEY-SILT, slight odor | |
| 12 | | | 5' | 17.6 | 12.25 - 13' - Gray, SILTY-fine sand, moist, odor | |
| 13 | | | | (54.5) | 13 - 14' - Gray, coarse SAND and fine gravel, wet, slight odor | |
| 14 | | | | 20.9 | 14 - 15' - Light brown, coarse SAND, some fine gravel (round), wet | |
| 15 | | | | | | |
| 16 | | | | | Boring terminated @ 15' bgs | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

**NOTES:**

bgs = below ground surface
▼ = observed water level

*These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).*

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208430733, -75.458061235 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |
| *Monitoring Well?* | *Temporary/Permanent:* N/A; *Diameter:* N/A; *Screened Interval:* N/A; *Riser Height:* N/A |

**BORING ID: SB-13**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 20' |
| *Water Level:* | |
| *Date:* | 9/11/18 |
| *Time Start:* | 1132 |
| *Time Finish:* | 1215 |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known) | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 1.6 | 0 - 0.25' - Light gray, crushed STONE / ASPHALT-base<br>0.25 - 2' - Brownish-black, coarse FILL-like material | |
| 2 | | | 2.75' | (1.6)<br>2.1 | 2 - 2.75' - Brown, medium-coarse SAND, some fine gravel | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | 5 - 5.25' - Brown, medium-coarse SAND and fine gravel, moist<br>5.25 - 6' - Gray with some light brown, SILT, trace clay | |
| 7 | | | 2.75' | 177<br>(194) | 6 - 6.25' - Black, coarse SAND and fine gravel, odor<br>6.25 - 7.75' - Gray, CLAYEY-SILT, slight odor | Sample **SB-13** for VOCs and SVOCs |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | 102 | 10 - 11' - Gray, CLAYEY-SILT, wet, odor | |
| 11 | | | | 705 | 11 - 12' - Dark gray, fine SAND, some medium sand, wet, odor | |
| 12 | | | 3' | (673) | 12 - 13' - Grayish light-brown, medium-coarse SAND and fine gravel (round), wet, odor | |
| 13 | | | | 400 | | |
| 14 | | | | | | |
| 15 | | | | 205 | 15 - 17' - Grayish light-brown, coarse SAND and medium gravel (round), wet, odor | |
| 16 | | | | (1,329) | | |
| 17 | | | 3' | 1,053 | 17 - 18' - Light brown, coarse SAND and medium gravel (round and angular), wet, slight odor | |
| 18 | | | | 161 | | |
| 19 | | | | | | |
| 20 | | | | | Boring terminated @ 20' bgs | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208292958, -75.458019692 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID:**

# SB-14

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| | | | | | |
|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* N/A |
| *Time Start:* | 1242 | | *Screened Interval:* | N/A | *Riser Height:* N/A |
| *Time Finish:* | 1310 | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 2.4 | **Poor Recovery | |
| 2 | | | 1' | (10.4) | Dark brown/black, coarse SAND and fine gravel, moist | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | 4.5 | 5 - 10' - Gray, CLAYEY-SILT, moist, slight odor | |
| 7 | | | | 37.1 | | |
| 8 | | | 5' | (76.6) | | |
| 9 | | | | 12.0 | | Sample **SB-14** for VOCs and SVOCs |
| 10 | | | | 17.7 | 10 - 10.5' - Gray, SILT, some coarse sand, trace fine gravel, wet, slight odor | |
| 11 | | | | 42.3 | 10.5 - 11' - Gray, SILTY-fine sand, trace clay, wet, odor | |
| 12 | | | | 155 | 11 - 12.5' - Gray, medium-coarse SAND and fine gravel (round and angular), wet, odor | |
| 13 | | | 4' | (1,143) | | |
| 14 | | | | 364 | 12.5 - 14' - Light brown, medium-coarse SAND and fine gravel, wet, odor | |
| 15 | | | | | | |
| 16 | | | | | Boring terminated @ 15' bgs | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208577881, -75.458022201 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |
| *Monitoring Well?* | *Temporary/Permanent:* N/A *Diameter:* N/A; *Screened Interval:* N/A *Riser Height:* N/A |

**BORING ID: SB-15**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |
| *Date:* | 9/11/18 |
| *Time Start:* | 1312 |
| *Time Finish:* | 1334 |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | 1.25' | 2.8 (11.6) | **Poor Recovery<br>Dark gray, FILL-like / ASPHALT-underlayment | Sample **SB-15S** for SVOCs, PCBs, and Metals |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | 5' | 2.8 | 5 - 10' - Gray, CLAYEY-SILT, moist | |
| 7 | | | | 53.2 | | |
| 8 | | | | (32.0) | (slight odor observed during headspace screening) | Sample **SB-15D** for VOCs and SVOCs |
| 9 | | | | 17.7 | | |
| 10 | | | 5' | 1.8 | 10 - 11' - Gray, SILT, moist | |
| 11 | | | | | 11 - 14' - Gray, SILT, trace fine sand, moist | |
| 12 | | | | (1.1) | | |
| 13 | | | | | | |
| 14 | | | | 0.8 | 14 - 15' - Gray, medium-fine SAND | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208613397, -75.458243544 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID:**

# SB-16

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* | N/A |
| *Time Start:* | 1340 | | *Screened Interval:* | N/A | *Riser Height:* | N/A |
| *Time Finish:* | 1357 | | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 0.3 | 0 - 2.75' - Black and brown, FILL-like material | Sample **SB-16** for SVOCs, PCBs, and Metals |
| 2 | | | 4.25' | 0.4 | | |
| 3 | | | | (0.8) | 2.75 - 4.25' - Dark brown/gray, medium-fine SAND, some silt | |
| 4 | | | | 0.3 | | |
| 5 | | | | 0.4 | 5 - 5.5' - Dark brown/gray, medium-fine SAND, some silt | |
| 6 | | | | (1.4) | 5.5 - 6.75' - Gray, SILTY-CLAY | |
| 7 | | | 2.75' | 0.6 | 6.75-7.75' - Light brown, SILTY-CLAY | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | 0.3 | 10 - 11' - Light brown, SILTY-CLAY | |
| 11 | | | | (1.1) | 11 - 13.75' - Gray, SILTY-fine sand, trace clay, moist | |
| 12 | | | 4.5' | 0.3 | | |
| 13 | | | | | | |
| 14 | | | | 0.4 | 13.75 - 14.5' - Light brown, medium-coarse SAND and medium gravel (round), wet | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.208181628, -75.458411170 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID:** **SB-17**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| | | | | | |
|---|---|---|---|---|---|
| *Date:* | 9/11/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* N/A |
| *Time Start:* | 1402 | | *Screened Interval:* | N/A | *Riser Height:* N/A |
| *Time Finish:* | 1426 | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known) | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 1.1 | 0 - 0.25' - Dark brown, TOPSOIL / Organic material<br>0.25 - 2.25' - Black (some brown), coarse FILL-like material | Sample **SB-17S** for SVOCs, PCBs, Pests/Herbs, and Metals *(MS/MSD)* |
| 2 | | | 3.75' | (0.8)<br>2.4 | | |
| 3 | | | | 6.9 | 2.25 - 3.75' - Gray, SILTY-fine sand, slight odor | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | 1.1 | 5 - 6.5' - Gray, SILTY-CLAY | |
| 7 | | | 5' | (36.9)<br>2.9 | 6.5 - 7' - Thin layer of grayish/brown, SILTY-CLAY, moist, odor, 'oily'-looking<br>7 - 10' - Gray, SILTY-CLAY, slight odor, moist | |
| 8 | | | | 4.2 | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | 22.1 | 10 - 11' - Dark gray, SILT and very fine sand, moist, odor<br>11 - 13.5' - Gray, fine SAND, trace silt, wet, slight odor | Sample **SB-17D** for VOCs and SVOCs *(MS/MSD)* |
| 12 | | | 5' | (89.8) | | |
| 13 | | | | 1.8 | | |
| 14 | | | | 1.4 | 13.5 - 15' - Light brown, medium-fine SAND, trace fine gravel, wet | |
| 15 | | | | | | |
| 16 | | | | | Boring terminated @ 15' bgs | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | 43.2084382, -75.457497082 |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |
| *Monitoring Well?* | *Temporary/Permanent:* N/A; *Diameter:* N/A; *Screened Interval:* N/A; *Riser Height:* N/A |

**BORING ID:**

# SB-18

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 20' |
| *Water Level:* | |
| *Date:* | 9/11/18 |
| *Time Start:* | 1438 |
| *Time Finish:* | 1500 |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | 2.25' | 0.0 | 0 - 0.25' - Dark brown, TOPSOIL / Organic-material<br>0.25 - 0.75' - Tannish-white, coarse STONE / GRAVEL<br>0.75 - 2.25' - Tan, medium SAND, fine gravel, and medium gravel | |
| 2 | | | | (0.2) | | |
| 3 | | | | 0.0 | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | 4' | 0.0 | 5 - 6' - Tan, medium SAND, fine gravel, and medium gravel | |
| 7 | | | | 6.4 | 6 - 6.75' - Black, coarse SAND, some very coarse sand, slight odor (Creosote) | |
| 8 | | | | (4.0) | 6.75 - 9' - Gray, coarse SAND and very coarse sand, trace fine gravel, moist | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | 5' | | 10 - 10.75' - Gray, medium-fine SAND, moist<br>10.75 - 11.5' - Gray, SILT and fine sand | |
| 12 | | | | 52.3 | 11.5 - 14' - Gray with some tan, CLAYEY-SILT | Sample **SB-18** for VOCs and SVOCs |
| 13 | | | | (121) | | |
| 14 | | | | 1.6 | 14 - 15' - Gray, SILTY-CLAY | |
| 15 | | | | | | |
| 16 | | | 5' | 0.7 | 15 - 16.5' - Gray, SILTY-CLAY, wet | |
| 17 | | | | | 16.5 - 19' - Gray, SILT and fine sand, wet | |
| 18 | | | | (1.3) | | |
| 19 | | | | 0.2 | 19 - 20' - Gray, medium SAND, some fine gravel, wet | |
| 20 | | | | | Boring terminated @ 20' bgs | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility | | | **BORING ID:** | **SB-19** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | 43.208202575, -75.457466051 | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Sample Type(s):* | 5' Macrocore Samples | | | *Ground Elevation:* | |
| *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | | *Boring Depth:* | 15' |
| | *Screened Interval:* N/A | *Riser Height:* N/A | | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 0 | | | | 0.1 | 0 - 0.5' - Dark brown, TOPSOIL / Organic material | |
| 1 | | | | | 0.5 - 2.5' - Brown, medium SAND | Sample **SB-19** for SVOCs, PCBs, and Metals |
| | | | | (1.1) | | |
| 2 | | | 2.5' | 0.1 | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | 0.0 | 5 - 6' - Dark brownish-gray, medium-coarse SAND, trace fine gravel, moist | |
| 6 | | | | | 6 - 7.5' - Gray, SILT and medium-fine sand | |
| | | | | (1.5) | | |
| 7 | | | 2.5' | 0.0 | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | 10 - 11' - Gray, medium SAND, trace fine gravel, moist | |
| 11 | | | | 0.0 | | |
| | | | | | 11 - 13' - Light brownish-gray, SILT, trace clay | |
| 12 | | | | (1.7) | | |
| | | | 4.75' | | | |
| 13 | | | | 0.0 | 13 - 14.75' - Gray, SILTY-CLAY | |
| 14 | | | | | | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 / Rome Turney Facility | | | **BORING ID:** | **SB-20** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Date:* 9/11/18 | *Sample Type(s):* | 5' Macrocore Samples | | *Ground Elevation:* | |
| *Time Start:* 1522 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | *Boring Depth:* | 2' |
| *Time Finish:* 1532 | | *Screened Interval:* N/A | *Riser Height:* N/A | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | 0' | | Refusal @ 2' bgs (Apparent Concrete) | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

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AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 | | | **BORING ID:** | **SB-30** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Date:* 10/30/18 | *Sample Type(s):* | 5' Macrocore Samples | | *Ground Elevation:* | |
| *Time Start:* 0922 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | *Boring Depth:* | 5' |
| *Time Finish:* 0927 | | *Screened Interval:* N/A | *Riser Height:* N/A | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known) | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 0.0 | 0 - 0.25' - Gray, coarse ASPHALT-base / FILL<br>0.25 - 2' - Brownish-gray, medium SAND, some coarse sand, trace fine gravel | |
| 2 | | | 2.75' | 0.0 | 2 - 2.75' - Light gray, coarse SAND ('Ash'-like material) | Sample **SB-30** for Metals |
| 3 | | | | 0.0 | | |
| 4 | | | | | | |
| 5 | | | | | Boring terminated @ 5' bgs | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:**

*These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).*

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |
| *Monitoring Well?* | *Temporary/Permanent:* N/A *Diameter:* N/A; *Screened Interval:* N/A *Riser Height:* N/A |

**BORING ID: SB-31**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 15' |
| *Water Level:* | |

| *Date:* | 10/30/18 |
|---|---|
| *Time Start:* | 0929 |
| *Time Finish:* | 0950 |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | 3' | 49.1 | 0 - 0.25' - Gray, coarse ASPHALT-base / FILL<br>0.25 - 0.75' - Dark gray, coarse SAND and fine gravel ('FILL'-like material), odor<br>0.75 - 3' - Grayish-dark gray, medium-coarse SAND, some silt, odor | Sample **SB-31S** for Metals |
| 2 | | | | 26.3 | | |
| 3 | | | | 56.6 | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | 5' | 3.1 | 5 - 7' - **Moist, slight odor | |
| 7 | | | | 5.0 | | |
| 8 | | | | 86.4 | 7 - 10' - **Wet, odor | |
| 9 | | | | (127) | | Sample **SB-31D** for VOCs, SVOCs, and TPHs |
| 10 | | | | | | |
| 11 | | | 5' | 9.3 | 10 - 15' - **Wet, slight odor | |
| 12 | | | | 20.7 | | |
| 13 | | | | 19.5 | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | Boring terminated @ 15' bgs | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | |
|---|---|
| *Project #/Name:* | 18-046 |
| *Client:* | Bowers Development |
| *Site Location:* | 109 Canal Street, Rome, New York |
| *Coordinates:* | |
| *Drilling Contractor:* | NYEG |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe |
| *Sample Type(s):* | 5' Macrocore Samples |

**BORING ID:** **SB-32**

| | |
|---|---|
| *Sheet:* | 1 of 1 |
| *Logged By:* | DB |
| *Boring Diameter:* | 2" |
| *Ground Elevation:* | |
| *Boring Depth:* | 20' |
| *Water Level:* | |

| | | | | | |
|---|---|---|---|---|---|
| *Date:* | 10/30/18 | *Monitoring Well?* | *Temporary/Permanent:* | N/A | *Diameter:* N/A |
| *Time Start:* | 0955 | | *Screened Interval:* | N/A | *Riser Height:* N/A |
| *Time Finish:* | 1022 | | | | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS:** **Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 1.0 | 0 - 0.25' - Gray, coarse ASPHALT-base / FILL<br>0.25 - 0.75' - Brown, medium-coarse SAND | |
| 2 | | | 3.25' | 0.3 | 0.75 - 1.25' - Light gray, coarse SAND and 'ASH'-like material<br>1.25 - 3.25' - Brownish-gray, medium SAND, trace silt, trace coarse sand | Sample **SB-32S** for Metals |
| 3 | | | | 0.2 | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | 0.4 | 5 - 9.5' - **CLAYEY-SILT, wet | |
| 7 | | | 4.5' | 0.5 | | |
| 8 | | | | | | |
| 9 | | | | 2.2 | | |
| 10 | | | | | | |
| 11 | | | | | 10 - 11.25' - **Brownish-gray, SILT, wet | |
| 12 | | | 2.75' | 60.6 (164) | 11.25 - 12.75' - **Coarse SAND, some fine gravel, wet, odor, slight sheen | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | 39 | 15 - 17' - **Dark grayish brown, wet, odor, sheen | |
| 17 | | | 4.5' | (126) | 17 - 20' - **Brown | Sample **SB-32D** for VOCs, SVOCs, lead, and TPHs |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | Boring terminated @ 20' bgs | |

bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 | | | **BORING ID:** | **SB-33** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Date:* 10/30/18 | *Sample Type(s):* | 5' Macrocore Samples | | *Ground Elevation:* | |
| *Time Start:* 1027 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | *Boring Depth:* | 10' |
| *Time Finish:* 1039 | | *Screened Interval:* N/A | *Riser Height:* N/A | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 0.1 | 0 - 0.25' - Gray, coarse ASPHALT-base / FILL<br>0.25 - 1' - Light gray, coarse 'FILL'-like & 'ASH'-like material<br>1 - 3' - Brown, coarse 'FILL'-like material | |
| 2 | | | 3' | 0.1 | | Sample **SB-33** for Metals |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | 5 - 10' - **SILTY-CLAY, wet | |
| 6 | | | | 0.3 | | |
| 7 | | | 5' | 0.1 | | |
| 8 | | | | | | |
| 9 | | | | 0.1 | | |
| 10 | | | | | Boring terminated @ 10' bgs | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 | | | **BORING ID:** | **SB-34** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Date:* 10/30/18 | *Sample Type(s):* | 5' Macrocore Samples | | *Ground Elevation:* | |
| *Time Start:* 1044 | *Monitoring Well?* | *Temporary/Permanent:* Temp | *Diameter:* 1" PVC | *Boring Depth:* | 15' |
| *Time Finish:* 1105 | | *Screened Interval:* 5-15' | *Riser Height:* 24" | *Water Level:* | 7.5' |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | 3.25' | 4.2 | 0 - 3.25' - ** | |
| 2 | | | | 11.1 | | |
| 3 | | | | 173 | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | ** | 28.0 | 5 - 10' - ** | |
| 7 | | | | 26.7 | | |
| 8 | | | | | | |
| 9 | | | | 11.1 | | |
| 10 | | | 4.75' | | 10 - 13.25' - ** | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | 636 (1,410) | 13.25 - 14.5' - Brownish-light brown, medium SAND and fine gravel, wet, odor | Sample **SB-34** for VOCs, SVOCs, lead, and TPHs |
| 14 | | | | | | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | | | |
|---|---|---|---|---|---|
| *Project #/Name:* | 18-046 | | | **BORING ID:** | **SB-35** |
| *Client:* | Bowers Development | | | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | | | |
| *Coordinates:* | | | | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | | | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | | | *Boring Diameter:* | 2" |
| *Date:* 10/30/18 | *Sample Type(s):* | 5' Macrocore Samples | | *Ground Elevation:* | |
| *Time Start:* 1110 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | *Boring Depth:* | 5' |
| *Time Finish:* 1120 | | *Screened Interval:* N/A | *Riser Height:* N/A | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | | 10.8 | 0 - 4' - ** | |
| 2 | | | 4' | | | Sample **SB-35** for Metals |
| 3 | | | | 20.1 | | |
| 4 | | | | | | |
| 5 | | | | | Boring terminated @ 5' bgs | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

AECC ENVIRONMENTAL CONSULTING

# Soil Boring Log

| | | | |
|---|---|---|---|
| *Project #/Name:* | 18-046 | **BORING ID:** | **SB-36** |
| *Client:* | Bowers Development | | |
| *Site Location:* | 109 Canal Street, Rome, New York | | |
| *Coordinates:* | 2' southeast of SB-18 | *Sheet:* | 1 of 1 |
| *Drilling Contractor:* | NYEG | *Logged By:* | DB |
| *Drilling Method:* | Remote-Operated, Track-Mounted, Direct-Push Geoprobe | *Boring Diameter:* | 2" |
| *Date:* | 10/30/18 | *Sample Type(s):* | 5' Macrocore Samples | *Ground Elevation:* | |
| *Time Start:* | 1129 | *Monitoring Well?* | *Temporary/Permanent:* N/A | *Diameter:* N/A | *Boring Depth:* | 15' |
| *Time Finish:* | 1146 | | *Screened Interval:* N/A | *Riser Height:* N/A | *Water Level:* | |

| Depth (ft) | Sample Depth (ft) | Blow Count (per 6 inches) | Recovery (ft) | PID Response (ppmv) | **MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)** | Lab Sample ID (Depth) |
|---|---|---|---|---|---|---|
| 1 | | | 2.75' | 6.2 | 0 - 0.25' - **Organic / TOPSOIL<br>0.25 - 2.75' - **Brown, SAND | |
| 2 | | | | 2.4 | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | 3' | 1.9 | 5 - 6' - **<br>6 - 7' - **"FILL'-like material, odor (Creosote) | Sample **SB-36** for VOCs, SVOCs, and Metals |
| 7 | | | | 3.3 | 7 - 8' - ** | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | 5' | 20.3 | 10 - 15' - **CLAYEY-SILT | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | Boring terminated @ 15' bgs | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

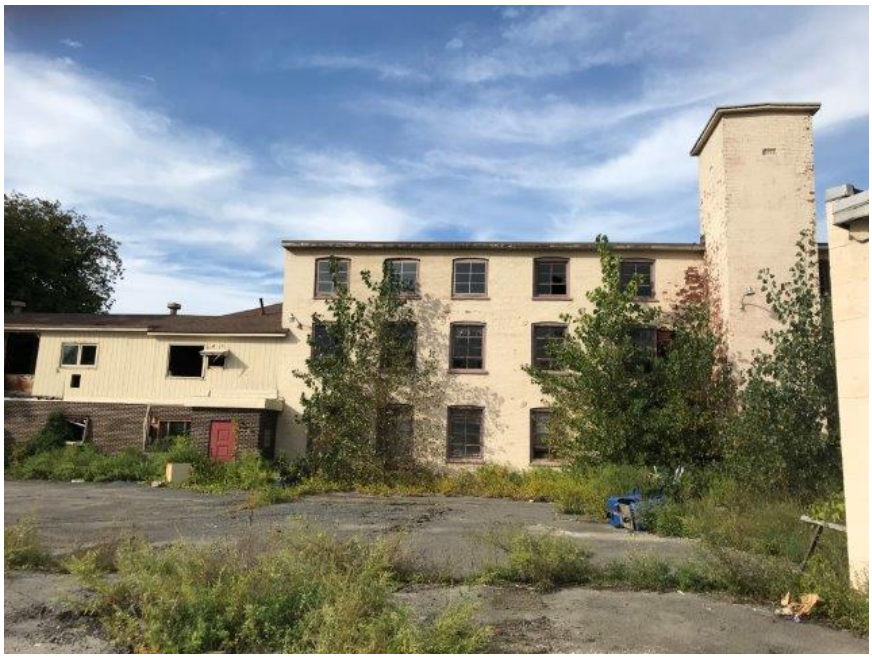
bgs = below ground surface
▼ = observed water level

**NOTES:** ** - Due to proximity of boring location to other borings where lithology has already been described, less field time / effort / resources were dedicated to further describing lithology. Only a limited description is given here.

# APPENDIX C

## SITE PHOTOS

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 1 |  | |
| **Photo Description:** | | |
| Northern Lot / Exterior of former Rome-Turney Facility (as viewed from Canal Street) | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 2 |  | |
| **Photo Description:** | | |
| Northern Lot / Exterior of former Rome-Turney Facility<br><br>Lot is covered by cracked asphalt and weedy vegetation | | |

| | | |
|---|---|---|
| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
| Photo No. 3 |  | |
| **Photo Description:** | | |
| Drummed waste, estimated to be left behind by Bergmann during 2015 Investigation<br><br>55-gallon steel drum appears intact<br><br>Located in northern lot | | |

| | | |
|---|---|---|
| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
| Photo No. 4 |  | |
| **Photo Description:** | | |
| Used plastic bailers, estimated to be left behind by Bergmann during 2015 Investigation<br><br>Located in northern lot | | |

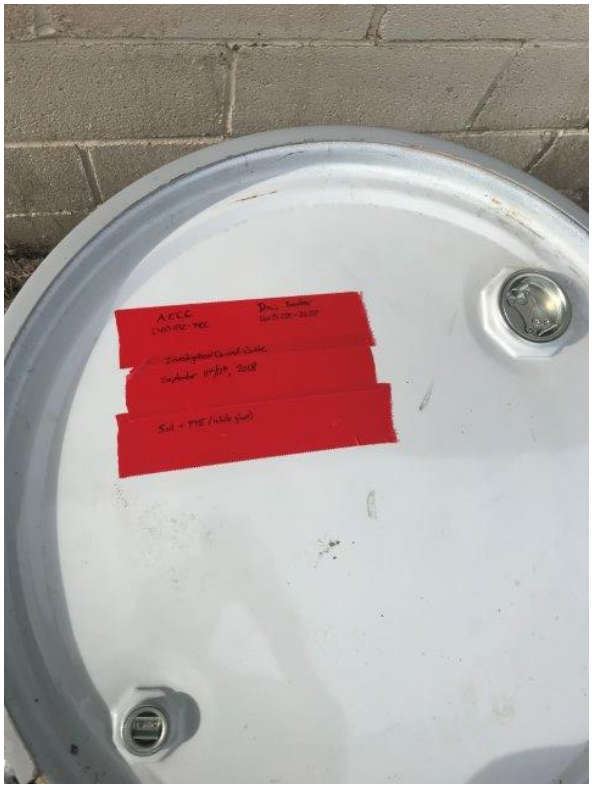
| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photos No. 5 & 6 |  |  |
| **Photo Description:** | | |
| Drummed waste, estimated to be left behind by Bergmann during 2015 Investigation<br><br>55-gallon steel drum has no cover<br><br>Located in northern lot | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 7 |  | |
| **Photo Description:** | | |
| Marked water and 'unknown' utility leading to estimated UST field on western end of Northern lot | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 8 |  | |
| **Photo Description:** | | |
| Marked area depicting estimated UST field on western end of Northern lot | | |

| AECC ENVIRONMENTAL CONSULTING | **100 Jasper St. towards 109 Canal St., Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 9 |  | |
| **Photo Description:** | | |
| Southern lot, and exterior of former Rome-Turney facility, as viewed from Jasper Street | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 10 |  | |
| **Photo Description:** | | |
| Investigation-derived Waste (IDW) generated by AECC during activities, stored in drum<br><br>55-gallon steel drum located along southern exterior of the former Rome-Turney facility | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** September 12, 2018 |
|---|---|---|
| Photo No. 11 |  | |
| **Photo Description:** | | |
| IDW drummed in labeled container | | |

| AECC ENVIRONMENTAL CONSULTING | **109 Canal Street, Rome, New York** | **Date:** October 30, 2018 |
|---|---|---|
| Photo No. 12 |  | |
| **Photo Description:**<br><br>Boring: SB–34<br>Well: TW–11<br><br>Note Floating Non-Aqueous Phased Liquid above groundwater in bailer | | |

# APPENDIX D

## ANALYTICAL LABORATORY REPORTS

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1836228 |
| Client: | Asbestos & Environmental Consulting Corp<br>6308 Fly Road<br>East Syracuse, NY 13057 |
| ATTN: | James Saxton |
| Phone: | (315) 432-9400 |
| Project Name: | ROME-TURNEY |
| Project Number: | 18-046 |
| Report Date: | 09/21/18 |



Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1836228-01 | SB-10 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 12:31 | 09/12/18 |
| L1836228-02 | SB-11 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 12:21 | 09/12/18 |
| L1836228-03 | SB-12 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 12:39 | 09/12/18 |
| L1836228-04 | SB-13 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 12:47 | 09/12/18 |
| L1836228-05 | SB-14 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 16:28 | 09/12/18 |
| L1836228-06 | SB-15S | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 16:45 | 09/12/18 |
| L1836228-07 | SB-15D | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 16:38 | 09/12/18 |
| L1836228-08 | SB-16 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 16:53 | 09/12/18 |
| L1836228-09 | SB-17S | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 17:25 | 09/12/18 |
| L1836228-10 | SB-17D | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 17:45 | 09/12/18 |
| L1836228-11 | SB-18 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 17:01 | 09/12/18 |
| L1836228-12 | SB-19 | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 17:10 | 09/12/18 |
| L1836228-13 | TRIP BLANK | SOIL | 109 CANAL ST., ROME, NY | 09/11/18 00:00 | 09/12/18 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** ROME-TURNEY **Lab Number:** L1836228
**Project Number:** 18-046 **Report Date:** 09/21/18

**Case Narrative (continued)**

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics
L1836228-02, -04 and -05: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.
L1836228-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (149%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.
L1836228-07 and -11: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics
L1836228-01 and -06: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.
L1836228-06: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.
L1836228-09: The sample has elevated detection limits due to the dilution required by the sample matrix.
The WG1157375-4/-5 MS/MSD recoveries, performed on L1836228-09, are below the acceptance criteria for 3,3'-dichlorobenzidine (MS at 0%), hexachlorocyclopentadiene (0%/0%), 2,4-dinitrophenol (0%/0%) and 4,6-dinitro-o-cresol (0%/0%) due to the concentration of these compounds falling below the reported detection limit.
The WG1157375-4/-5 MS/MSD recoveries, performed on L1836228-09, are outside the acceptance criteria for fluoranthene (0%/0%), benzo(a)anthracene (0%/0%), benzo(a)pyrene (0%/0%), benzo(b)fluoranthene (0%/0%), chrysene (0%/0%), benzo(ghi)perylene (0%/0%), phenanthrene (0%/0%), indeno(1,2,3-cd)pyrene

**Project Name:** ROME-TURNEY **Lab Number:** L1836228
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**Case Narrative (continued)**

(0%/0%) and pyrene (0%) The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Herbicides

The WG1157092-2/-3 LCS/LCSD recoveries, associated with L1836228-09, are above the acceptance criteria for dichloroprop (222%/151%), 2,4-D (156%/177%) and 2,4-DB (190%/163%); however, the associated sample is non-detect to the RL for these target analyte. The results of the original analysis are reported.
The WG1157092-2/-3 LCS/LCSD RPD, associated with L1836228-09, is above the acceptance criteria for dichloroprop (38%).
The WG1157092-4/-5 MS/MSD recoveries, performed on L1836228-09, are outside the acceptance criteria for 2,4-DB (177%/169%).

Total Metals

L1836228-01, -03, -06, -08, -09 and -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1158776-3/-4 MS/MSD recoveries for mercury (0%/0%), performed on L1836228-09, do not apply because the sample concentration is greater than four times the spike amount added.
The WG1158776-3/-4 MS/MSD RPD for mercury (127%), performed on L1836228-09, is above the acceptance criteria.
The WG1159014-3/-4 MS recoveries for aluminum (408%/404%), calcium (0%/0%), copper (310%/285%), iron (3100%/1570%), lead (395%/514%), manganese (33%/57%) and zinc (537%/483%), performed on L1836228-09, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1159014-3/-4 MS/MSD recoveries, performed on L1836228-09, are outside the acceptance criteria for magnesium (27%/39%). A post digestion spike was performed and was within acceptance criteria.
The WG1159014-3/-4 MS/MSD recoveries, performed on L1836228-09, are outside the acceptance criteria for thallium (71%/70%). A post digestion spike was performed and yielded an unacceptable recovery for thallium (79%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/21/18

# ORGANICS

# VOLATILES

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02 Date Collected: 09/11/18 12:21

Client ID: SB-11 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 09/20/18 17:10

Analyst: AD

Percent Solids: 74%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 350 | 160 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 71 | 10. | 1 |
| Chloroform | ND | | ug/kg | 110 | 9.9 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 71 | 16. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 71 | 8.8 | 1 |
| Dibromochloromethane | ND | | ug/kg | 71 | 9.9 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 71 | 19. | 1 |
| Tetrachloroethene | ND | | ug/kg | 35 | 14. | 1 |
| Chlorobenzene | ND | | ug/kg | 35 | 9.0 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 280 | 49. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 71 | 18. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Bromodichloromethane | ND | | ug/kg | 35 | 7.7 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 71 | 19. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 35 | 11. | 1 |
| Bromoform | ND | | ug/kg | 280 | 17. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Benzene | ND | | ug/kg | 35 | 12. | 1 |
| Toluene | ND | | ug/kg | 71 | 38. | 1 |
| Ethylbenzene | 36 | J | ug/kg | 71 | 10. | 1 |
| Chloromethane | ND | | ug/kg | 280 | 66. | 1 |
| Bromomethane | ND | | ug/kg | 140 | 41. | 1 |
| Vinyl chloride | ND | | ug/kg | 71 | 24. | 1 |
| Chloroethane | ND | | ug/kg | 140 | 32. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 71 | 17. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 110 | 9.7 | 1 |
| Trichloroethene | ND | | ug/kg | 35 | 9.7 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02 Date Collected: 09/11/18 12:21

Client ID: SB-11 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 140 | 12. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 140 | 14. | 1 |
| p/m-Xylene | 60 | J | ug/kg | 140 | 40. | 1 |
| o-Xylene | ND | | ug/kg | 71 | 20. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 71 | 12. | 1 |
| Styrene | ND | | ug/kg | 71 | 14. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 710 | 65. | 1 |
| Acetone | ND | | ug/kg | 710 | 340 | 1 |
| Carbon disulfide | ND | | ug/kg | 710 | 320 | 1 |
| 2-Butanone | ND | | ug/kg | 710 | 160 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 710 | 90. | 1 |
| 2-Hexanone | ND | | ug/kg | 710 | 83. | 1 |
| Bromochloromethane | ND | | ug/kg | 140 | 14. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 71 | 20. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 210 | 70. | 1 |
| Isopropylbenzene | 170 | | ug/kg | 71 | 7.7 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 140 | 23. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 140 | 19. | 1 |
| Methyl Acetate | 120 | J | ug/kg | 280 | 67. | 1 |
| Cyclohexane | 44 | J | ug/kg | 710 | 38. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 7100 | 2500 | 1 |
| Freon-113 | ND | | ug/kg | 280 | 49. | 1 |
| Methyl cyclohexane | 320 | | ug/kg | 280 | 43. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | | 70-130 |
| Toluene-d8 | 110 | | 70-130 |
| 4-Bromofluorobenzene | 122 | | 70-130 |
| Dibromofluoromethane | 89 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04 Date Collected: 09/11/18 12:47

Client ID: SB-13 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 09/20/18 17:35

Analyst: AD

Percent Solids: 74%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 360 | 170 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 73 | 11. | 1 |
| Chloroform | ND | | ug/kg | 110 | 10. | 1 |
| Carbon tetrachloride | ND | | ug/kg | 73 | 17. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 73 | 9.1 | 1 |
| Dibromochloromethane | ND | | ug/kg | 73 | 10. | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 73 | 20. | 1 |
| Tetrachloroethene | ND | | ug/kg | 36 | 14. | 1 |
| Chlorobenzene | ND | | ug/kg | 36 | 9.3 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 290 | 51. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 73 | 19. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 36 | 12. | 1 |
| Bromodichloromethane | ND | | ug/kg | 36 | 8.0 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 73 | 20. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 36 | 12. | 1 |
| Bromoform | ND | | ug/kg | 290 | 18. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 36 | 12. | 1 |
| Benzene | ND | | ug/kg | 36 | 12. | 1 |
| Toluene | ND | | ug/kg | 73 | 40. | 1 |
| Ethylbenzene | 22 | J | ug/kg | 73 | 10. | 1 |
| Chloromethane | ND | | ug/kg | 290 | 68. | 1 |
| Bromomethane | ND | | ug/kg | 150 | 42. | 1 |
| Vinyl chloride | ND | | ug/kg | 73 | 24. | 1 |
| Chloroethane | ND | | ug/kg | 150 | 33. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 73 | 17. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 110 | 10. | 1 |
| Trichloroethene | ND | | ug/kg | 36 | 10. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 150 | 10. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04 Date Collected: 09/11/18 12:47

Client ID: SB-13 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 150 | 11. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 150 | 12. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 150 | 15. | 1 |
| p/m-Xylene | 74 | J | ug/kg | 150 | 41. | 1 |
| o-Xylene | ND | | ug/kg | 73 | 21. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 73 | 13. | 1 |
| Styrene | ND | | ug/kg | 73 | 14. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 730 | 67. | 1 |
| Acetone | ND | | ug/kg | 730 | 350 | 1 |
| Carbon disulfide | ND | | ug/kg | 730 | 330 | 1 |
| 2-Butanone | 280 | J | ug/kg | 730 | 160 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 730 | 94. | 1 |
| 2-Hexanone | ND | | ug/kg | 730 | 86. | 1 |
| Bromochloromethane | ND | | ug/kg | 150 | 15. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 73 | 20. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 220 | 73. | 1 |
| Isopropylbenzene | 9.9 | J | ug/kg | 73 | 8.0 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 150 | 24. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 150 | 20. | 1 |
| Methyl Acetate | 170 | J | ug/kg | 290 | 69. | 1 |
| Cyclohexane | ND | | ug/kg | 730 | 40. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 7300 | 2600 | 1 |
| Freon-113 | ND | | ug/kg | 290 | 51. | 1 |
| Methyl cyclohexane | 240 | J | ug/kg | 290 | 44. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 113 | | 70-130 |
| 4-Bromofluorobenzene | **149** | Q | 70-130 |
| Dibromofluoromethane | 90 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05
Client ID: SB-14
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:28
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/20/18 16:43
Analyst: MKS
Percent Solids: 74%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 350 | 160 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 70 | 10. | 1 |
| Chloroform | ND | | ug/kg | 100 | 9.8 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 70 | 16. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 70 | 8.8 | 1 |
| Dibromochloromethane | ND | | ug/kg | 70 | 9.8 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 70 | 19. | 1 |
| Tetrachloroethene | ND | | ug/kg | 35 | 14. | 1 |
| Chlorobenzene | ND | | ug/kg | 35 | 8.9 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 280 | 49. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 70 | 18. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Bromodichloromethane | ND | | ug/kg | 35 | 7.6 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 70 | 19. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 35 | 11. | 1 |
| Bromoform | ND | | ug/kg | 280 | 17. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Benzene | ND | | ug/kg | 35 | 12. | 1 |
| Toluene | ND | | ug/kg | 70 | 38. | 1 |
| Ethylbenzene | 24 | J | ug/kg | 70 | 9.9 | 1 |
| Chloromethane | ND | | ug/kg | 280 | 65. | 1 |
| Bromomethane | ND | | ug/kg | 140 | 41. | 1 |
| Vinyl chloride | ND | | ug/kg | 70 | 23. | 1 |
| Chloroethane | ND | | ug/kg | 140 | 32. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 70 | 17. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 100 | 9.6 | 1 |
| Trichloroethene | ND | | ug/kg | 35 | 9.6 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05 Date Collected: 09/11/18 16:28

Client ID: SB-14 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 140 | 12. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 140 | 14. | 1 |
| p/m-Xylene | ND | | ug/kg | 140 | 39. | 1 |
| o-Xylene | ND | | ug/kg | 70 | 20. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 70 | 12. | 1 |
| Styrene | ND | | ug/kg | 70 | 14. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 700 | 64. | 1 |
| Acetone | ND | | ug/kg | 700 | 340 | 1 |
| Carbon disulfide | ND | | ug/kg | 700 | 320 | 1 |
| 2-Butanone | ND | | ug/kg | 700 | 160 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 700 | 90. | 1 |
| 2-Hexanone | ND | | ug/kg | 700 | 83. | 1 |
| Bromochloromethane | ND | | ug/kg | 140 | 14. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 70 | 20. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 210 | 70. | 1 |
| Isopropylbenzene | 54 | J | ug/kg | 70 | 7.6 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 140 | 22. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 140 | 19. | 1 |
| Methyl Acetate | ND | | ug/kg | 280 | 66. | 1 |
| Cyclohexane | 61 | J | ug/kg | 700 | 38. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 7000 | 2400 | 1 |
| Freon-113 | ND | | ug/kg | 280 | 48. | 1 |
| Methyl cyclohexane | 260 | J | ug/kg | 280 | 42. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 128 | | 70-130 |
| Dibromofluoromethane | 85 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07 D
Client ID: SB-15D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:38
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/20/18 20:38
Analyst: PK
Percent Solids: 67%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 1700 | 800 | 4 |
| 1,1-Dichloroethane | ND | | ug/kg | 350 | 51. | 4 |
| Chloroform | ND | | ug/kg | 520 | 49. | 4 |
| Carbon tetrachloride | ND | | ug/kg | 350 | 80. | 4 |
| 1,2-Dichloropropane | ND | | ug/kg | 350 | 44. | 4 |
| Dibromochloromethane | ND | | ug/kg | 350 | 49. | 4 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 350 | 93. | 4 |
| Tetrachloroethene | ND | | ug/kg | 170 | 68. | 4 |
| Chlorobenzene | ND | | ug/kg | 170 | 44. | 4 |
| Trichlorofluoromethane | ND | | ug/kg | 1400 | 240 | 4 |
| 1,2-Dichloroethane | ND | | ug/kg | 350 | 90. | 4 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 170 | 58. | 4 |
| Bromodichloromethane | ND | | ug/kg | 170 | 38. | 4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 350 | 96. | 4 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 170 | 55. | 4 |
| Bromoform | ND | | ug/kg | 1400 | 86. | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 170 | 58. | 4 |
| Benzene | ND | | ug/kg | 170 | 58. | 4 |
| Toluene | ND | | ug/kg | 350 | 190 | 4 |
| Ethylbenzene | ND | | ug/kg | 350 | 49. | 4 |
| Chloromethane | ND | | ug/kg | 1400 | 330 | 4 |
| Bromomethane | ND | | ug/kg | 700 | 200 | 4 |
| Vinyl chloride | ND | | ug/kg | 350 | 120 | 4 |
| Chloroethane | ND | | ug/kg | 700 | 160 | 4 |
| 1,1-Dichloroethene | ND | | ug/kg | 350 | 83. | 4 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 520 | 48. | 4 |
| Trichloroethene | ND | | ug/kg | 170 | 48. | 4 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 700 | 50. | 4 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07 D Date Collected: 09/11/18 16:38

Client ID: SB-15D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 700 | 52. | 4 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 700 | 60. | 4 |
| Methyl tert butyl ether | ND | | ug/kg | 700 | 70. | 4 |
| p/m-Xylene | ND | | ug/kg | 700 | 200 | 4 |
| o-Xylene | ND | | ug/kg | 350 | 100 | 4 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 350 | 61. | 4 |
| Styrene | ND | | ug/kg | 350 | 68. | 4 |
| Dichlorodifluoromethane | ND | | ug/kg | 3500 | 320 | 4 |
| Acetone | ND | | ug/kg | 3500 | 1700 | 4 |
| Carbon disulfide | ND | | ug/kg | 3500 | 1600 | 4 |
| 2-Butanone | ND | | ug/kg | 3500 | 780 | 4 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 3500 | 450 | 4 |
| 2-Hexanone | ND | | ug/kg | 3500 | 410 | 4 |
| Bromochloromethane | ND | | ug/kg | 700 | 72. | 4 |
| 1,2-Dibromoethane | ND | | ug/kg | 350 | 98. | 4 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 1000 | 350 | 4 |
| Isopropylbenzene | 180 | J | ug/kg | 350 | 38. | 4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 700 | 110 | 4 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 700 | 95. | 4 |
| Methyl Acetate | ND | | ug/kg | 1400 | 330 | 4 |
| Cyclohexane | ND | | ug/kg | 3500 | 190 | 4 |
| 1,4-Dioxane | ND | | ug/kg | 35000 | 12000 | 4 |
| Freon-113 | ND | | ug/kg | 1400 | 240 | 4 |
| Methyl cyclohexane | 2000 | | ug/kg | 1400 | 210 | 4 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 101 | | 70-130 |
| 4-Bromofluorobenzene | 120 | | 70-130 |
| Dibromofluoromethane | 86 | | 70-130 |

**Project Name:** ROME-TURNEY
**Lab Number:** L1836228
**Project Number:** 18-046
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10
Client ID: SB-17D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:45
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/21/18 12:25
Analyst: MKS
Percent Solids: 75%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 350 | 160 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 71 | 10. | 1 |
| Chloroform | ND | | ug/kg | 110 | 9.9 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 71 | 16. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 71 | 8.8 | 1 |
| Dibromochloromethane | ND | | ug/kg | 71 | 9.9 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 71 | 19. | 1 |
| Tetrachloroethene | ND | | ug/kg | 35 | 14. | 1 |
| Chlorobenzene | ND | | ug/kg | 35 | 9.0 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 280 | 49. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 71 | 18. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Bromodichloromethane | ND | | ug/kg | 35 | 7.7 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 71 | 19. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 35 | 11. | 1 |
| Bromoform | ND | | ug/kg | 280 | 17. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 35 | 12. | 1 |
| Benzene | ND | | ug/kg | 35 | 12. | 1 |
| Toluene | ND | | ug/kg | 71 | 38. | 1 |
| Ethylbenzene | ND | | ug/kg | 71 | 10. | 1 |
| Chloromethane | ND | | ug/kg | 280 | 66. | 1 |
| Bromomethane | ND | | ug/kg | 140 | 41. | 1 |
| Vinyl chloride | ND | | ug/kg | 71 | 24. | 1 |
| Chloroethane | ND | | ug/kg | 140 | 32. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 71 | 17. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 110 | 9.7 | 1 |
| Trichloroethene | ND | | ug/kg | 35 | 9.7 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10 Date Collected: 09/11/18 17:45

Client ID: SB-17D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 140 | 12. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 140 | 14. | 1 |
| p/m-Xylene | ND | | ug/kg | 140 | 40. | 1 |
| o-Xylene | ND | | ug/kg | 71 | 21. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 71 | 12. | 1 |
| Styrene | ND | | ug/kg | 71 | 14. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 710 | 65. | 1 |
| Acetone | ND | | ug/kg | 710 | 340 | 1 |
| Carbon disulfide | ND | | ug/kg | 710 | 320 | 1 |
| 2-Butanone | ND | | ug/kg | 710 | 160 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 710 | 91. | 1 |
| 2-Hexanone | ND | | ug/kg | 710 | 84. | 1 |
| Bromochloromethane | ND | | ug/kg | 140 | 14. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 71 | 20. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 210 | 71. | 1 |
| Isopropylbenzene | 140 | | ug/kg | 71 | 7.7 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 140 | 23. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 140 | 19. | 1 |
| Methyl Acetate | 190 | J | ug/kg | 280 | 67. | 1 |
| Cyclohexane | 57 | J | ug/kg | 710 | 38. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 7100 | 2500 | 1 |
| Freon-113 | ND | | ug/kg | 280 | 49. | 1 |
| Methyl cyclohexane | 500 | | ug/kg | 280 | 43. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 123 | | 70-130 |
| Dibromofluoromethane | 84 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11 D
Client ID: SB-18
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:01
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/20/18 21:04
Analyst: PK
Percent Solids: 80%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 600 | 280 | 2 |
| 1,1-Dichloroethane | ND | | ug/kg | 120 | 18. | 2 |
| Chloroform | ND | | ug/kg | 180 | 17. | 2 |
| Carbon tetrachloride | ND | | ug/kg | 120 | 28. | 2 |
| 1,2-Dichloropropane | ND | | ug/kg | 120 | 15. | 2 |
| Dibromochloromethane | ND | | ug/kg | 120 | 17. | 2 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 120 | 32. | 2 |
| Tetrachloroethene | ND | | ug/kg | 60 | 24. | 2 |
| Chlorobenzene | ND | | ug/kg | 60 | 15. | 2 |
| Trichlorofluoromethane | ND | | ug/kg | 480 | 84. | 2 |
| 1,2-Dichloroethane | ND | | ug/kg | 120 | 31. | 2 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 60 | 20. | 2 |
| Bromodichloromethane | ND | | ug/kg | 60 | 13. | 2 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 120 | 33. | 2 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 60 | 19. | 2 |
| Bromoform | ND | | ug/kg | 480 | 30. | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 60 | 20. | 2 |
| Benzene | ND | | ug/kg | 60 | 20. | 2 |
| Toluene | ND | | ug/kg | 120 | 66. | 2 |
| Ethylbenzene | ND | | ug/kg | 120 | 17. | 2 |
| Chloromethane | ND | | ug/kg | 480 | 110 | 2 |
| Bromomethane | ND | | ug/kg | 240 | 70. | 2 |
| Vinyl chloride | ND | | ug/kg | 120 | 40. | 2 |
| Chloroethane | ND | | ug/kg | 240 | 55. | 2 |
| 1,1-Dichloroethene | ND | | ug/kg | 120 | 29. | 2 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 180 | 16. | 2 |
| Trichloroethene | ND | | ug/kg | 60 | 16. | 2 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 240 | 17. | 2 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11 D Date Collected: 09/11/18 17:01

Client ID: SB-18 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 240 | 18. | 2 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 240 | 21. | 2 |
| Methyl tert butyl ether | ND | | ug/kg | 240 | 24. | 2 |
| p/m-Xylene | ND | | ug/kg | 240 | 68. | 2 |
| o-Xylene | ND | | ug/kg | 120 | 35. | 2 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 120 | 21. | 2 |
| Styrene | ND | | ug/kg | 120 | 24. | 2 |
| Dichlorodifluoromethane | ND | | ug/kg | 1200 | 110 | 2 |
| Acetone | ND | | ug/kg | 1200 | 580 | 2 |
| Carbon disulfide | ND | | ug/kg | 1200 | 550 | 2 |
| 2-Butanone | ND | | ug/kg | 1200 | 270 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 1200 | 160 | 2 |
| 2-Hexanone | ND | | ug/kg | 1200 | 140 | 2 |
| Bromochloromethane | ND | | ug/kg | 240 | 25. | 2 |
| 1,2-Dibromoethane | ND | | ug/kg | 120 | 34. | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 360 | 120 | 2 |
| Isopropylbenzene | ND | | ug/kg | 120 | 13. | 2 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 240 | 39. | 2 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 240 | 33. | 2 |
| Methyl Acetate | ND | | ug/kg | 480 | 120 | 2 |
| Cyclohexane | ND | | ug/kg | 1200 | 66. | 2 |
| 1,4-Dioxane | ND | | ug/kg | 12000 | 4200 | 2 |
| Freon-113 | ND | | ug/kg | 480 | 84. | 2 |
| Methyl cyclohexane | 73 | J | ug/kg | 480 | 73. | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 124 | | 70-130 |
| Dibromofluoromethane | 88 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

**SAMPLE RESULTS**

Lab ID: L1836228-13 Date Collected: 09/11/18 00:00

Client ID: TRIP BLANK Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 09/20/18 16:17

Analyst: MKS

Percent Solids: Results reported on an 'AS RECEIVED' basis.

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 | 1 |
| Chloroform | ND | | ug/kg | 75 | 7.0 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 | 1 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. | 1 |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 | 1 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 | 1 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 | 1 |
| Bromoform | ND | | ug/kg | 200 | 12. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 | 1 |
| Benzene | ND | | ug/kg | 25 | 8.3 | 1 |
| Toluene | ND | | ug/kg | 50 | 27. | 1 |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 | 1 |
| Chloromethane | ND | | ug/kg | 200 | 47. | 1 |
| Bromomethane | ND | | ug/kg | 100 | 29. | 1 |
| Vinyl chloride | ND | | ug/kg | 50 | 17. | 1 |
| Chloroethane | ND | | ug/kg | 100 | 23. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 | 1 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-13 Date Collected: 09/11/18 00:00

Client ID: TRIP BLANK Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. | 1 |
| p/m-Xylene | ND | | ug/kg | 100 | 28. | 1 |
| o-Xylene | ND | | ug/kg | 50 | 14. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 | 1 |
| Styrene | ND | | ug/kg | 50 | 9.8 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. | 1 |
| Acetone | ND | | ug/kg | 500 | 240 | 1 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 | 1 |
| 2-Butanone | ND | | ug/kg | 500 | 110 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. | 1 |
| 2-Hexanone | ND | | ug/kg | 500 | 59. | 1 |
| Bromochloromethane | ND | | ug/kg | 100 | 10. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. | 1 |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. | 1 |
| Methyl Acetate | ND | | ug/kg | 200 | 48. | 1 |
| Cyclohexane | ND | | ug/kg | 500 | 27. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 | 1 |
| Freon-113 | ND | | ug/kg | 200 | 35. | 1 |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 105 | | 70-130 |
| Dibromofluoromethane | 85 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:38
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04 Batch: WG1158942-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | 77 | J | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:38
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04 Batch: WG1158942-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:38
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04 Batch: WG1158942-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 112 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 92 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 15:25
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07,11,13 Batch: WG1159249-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | ND | | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 15:25
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07,11,13 Batch: WG1159249-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 15:25
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07,11,13 Batch: WG1159249-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 107 | | 70-130 |
| Dibromofluoromethane | 86 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/21/18 08:30
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10 Batch: WG1159452-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | ND | | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/21/18 08:30
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10 Batch: WG1159452-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/21/18 08:30
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10 Batch: WG1159452-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 86 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04 Batch: WG1158942-3 WG1158942-4 | | | | | | | | |
| Methylene chloride | 91 | | 91 | | 70-130 | 0 | | 30 |
| 1,1-Dichloroethane | 100 | | 101 | | 70-130 | 1 | | 30 |
| Chloroform | 95 | | 95 | | 70-130 | 0 | | 30 |
| Carbon tetrachloride | 86 | | 86 | | 70-130 | 0 | | 30 |
| 1,2-Dichloropropane | 102 | | 104 | | 70-130 | 2 | | 30 |
| Dibromochloromethane | 92 | | 94 | | 70-130 | 2 | | 30 |
| 1,1,2-Trichloroethane | 105 | | 109 | | 70-130 | 4 | | 30 |
| Tetrachloroethene | 85 | | 84 | | 70-130 | 1 | | 30 |
| Chlorobenzene | 95 | | 96 | | 70-130 | 1 | | 30 |
| Trichlorofluoromethane | 110 | | 112 | | 70-139 | 2 | | 30 |
| 1,2-Dichloroethane | 99 | | 101 | | 70-130 | 2 | | 30 |
| 1,1,1-Trichloroethane | 92 | | 92 | | 70-130 | 0 | | 30 |
| Bromodichloromethane | 92 | | 96 | | 70-130 | 4 | | 30 |
| trans-1,3-Dichloropropene | 105 | | 109 | | 70-130 | 4 | | 30 |
| cis-1,3-Dichloropropene | 95 | | 96 | | 70-130 | 1 | | 30 |
| Bromoform | 94 | | 96 | | 70-130 | 2 | | 30 |
| 1,1,2,2-Tetrachloroethane | 113 | | 117 | | 70-130 | 3 | | 30 |
| Benzene | 93 | | 94 | | 70-130 | 1 | | 30 |
| Toluene | 97 | | 99 | | 70-130 | 2 | | 30 |
| Ethylbenzene | 101 | | 102 | | 70-130 | 1 | | 30 |
| Chloromethane | 84 | | 85 | | 52-130 | 1 | | 30 |
| Bromomethane | **149** | Q | 146 | | 57-147 | 2 | | 30 |
| Vinyl chloride | 89 | | 90 | | 67-130 | 1 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04 Batch: WG1158942-3 WG1158942-4 | | | | | | | | |
| Chloroethane | 120 | | 125 | | 50-151 | 4 | | 30 |
| 1,1-Dichloroethene | 82 | | 84 | | 65-135 | 2 | | 30 |
| trans-1,2-Dichloroethene | 88 | | 87 | | 70-130 | 1 | | 30 |
| Trichloroethene | 91 | | 91 | | 70-130 | 0 | | 30 |
| 1,2-Dichlorobenzene | 97 | | 97 | | 70-130 | 0 | | 30 |
| 1,3-Dichlorobenzene | 98 | | 97 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 99 | | 98 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 90 | | 92 | | 66-130 | 2 | | 30 |
| p/m-Xylene | 96 | | 96 | | 70-130 | 0 | | 30 |
| o-Xylene | 95 | | 96 | | 70-130 | 1 | | 30 |
| cis-1,2-Dichloroethene | 88 | | 89 | | 70-130 | 1 | | 30 |
| Styrene | 97 | | 98 | | 70-130 | 1 | | 30 |
| Dichlorodifluoromethane | 56 | | 56 | | 30-146 | 0 | | 30 |
| Acetone | 102 | | 105 | | 54-140 | 3 | | 30 |
| Carbon disulfide | 84 | | 84 | | 59-130 | 0 | | 30 |
| 2-Butanone | 99 | | 104 | | 70-130 | 5 | | 30 |
| 4-Methyl-2-pentanone | 107 | | 114 | | 70-130 | 6 | | 30 |
| 2-Hexanone | 103 | | 111 | | 70-130 | 7 | | 30 |
| Bromochloromethane | 84 | | 84 | | 70-130 | 0 | | 30 |
| 1,2-Dibromoethane | 95 | | 98 | | 70-130 | 3 | | 30 |
| 1,2-Dibromo-3-chloropropane | 80 | | 87 | | 68-130 | 8 | | 30 |
| Isopropylbenzene | 108 | | 106 | | 70-130 | 2 | | 30 |
| 1,2,3-Trichlorobenzene | 90 | | 90 | | 70-130 | 0 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04 Batch: WG1158942-3 WG1158942-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 90 | | 88 | | 70-130 | 2 | | 30 |
| Methyl Acetate | 95 | | 101 | | 51-146 | 6 | | 30 |
| Cyclohexane | 96 | | 95 | | 59-142 | 1 | | 30 |
| 1,4-Dioxane | 76 | | 81 | | 65-136 | 6 | | 30 |
| Freon-113 | 82 | | 84 | | 50-139 | 2 | | 30 |
| Methyl cyclohexane | 86 | | 86 | | 70-130 | 0 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 112 | | 70-130 |
| Toluene-d8 | 109 | | 110 | | 70-130 |
| 4-Bromofluorobenzene | 112 | | 111 | | 70-130 |
| Dibromofluoromethane | 92 | | 93 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab | Associated sample(s): | 05,07,11,13 | Batch: | WG1159249-3 | WG1159249-4 | | | |
| Methylene chloride | 88 | | 87 | | 70-130 | 1 | | 30 |
| 1,1-Dichloroethane | 95 | | 93 | | 70-130 | 2 | | 30 |
| Chloroform | 87 | | 86 | | 70-130 | 1 | | 30 |
| Carbon tetrachloride | 82 | | 81 | | 70-130 | 1 | | 30 |
| 1,2-Dichloropropane | 110 | | 107 | | 70-130 | 3 | | 30 |
| Dibromochloromethane | 85 | | 86 | | 70-130 | 1 | | 30 |
| 1,1,2-Trichloroethane | 94 | | 92 | | 70-130 | 2 | | 30 |
| Tetrachloroethene | 82 | | 81 | | 70-130 | 1 | | 30 |
| Chlorobenzene | 85 | | 85 | | 70-130 | 0 | | 30 |
| Trichlorofluoromethane | 74 | | 73 | | 70-139 | 1 | | 30 |
| 1,2-Dichloroethane | 93 | | 93 | | 70-130 | 0 | | 30 |
| 1,1,1-Trichloroethane | 83 | | 80 | | 70-130 | 4 | | 30 |
| Bromodichloromethane | 95 | | 94 | | 70-130 | 1 | | 30 |
| trans-1,3-Dichloropropene | 95 | | 93 | | 70-130 | 2 | | 30 |
| cis-1,3-Dichloropropene | 107 | | 107 | | 70-130 | 0 | | 30 |
| Bromoform | 85 | | 85 | | 70-130 | 0 | | 30 |
| 1,1,2,2-Tetrachloroethane | 88 | | 88 | | 70-130 | 0 | | 30 |
| Benzene | 91 | | 89 | | 70-130 | 2 | | 30 |
| Toluene | 90 | | 88 | | 70-130 | 2 | | 30 |
| Ethylbenzene | 88 | | 86 | | 70-130 | 2 | | 30 |
| Chloromethane | 89 | | 86 | | 52-130 | 3 | | 30 |
| Bromomethane | **46** | Q | **43** | Q | 57-147 | 7 | | 30 |
| Vinyl chloride | **58** | Q | **54** | Q | 67-130 | 7 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab | Associated sample(s): 05,07,11,13 | | Batch: WG1159249-3 WG1159249-4 | | | | | |
| Chloroethane | **43** | Q | **41** | Q | 50-151 | 5 | | 30 |
| 1,1-Dichloroethene | 88 | | 84 | | 65-135 | 5 | | 30 |
| trans-1,2-Dichloroethene | 88 | | 88 | | 70-130 | 0 | | 30 |
| Trichloroethene | 91 | | 92 | | 70-130 | 1 | | 30 |
| 1,2-Dichlorobenzene | 83 | | 82 | | 70-130 | 1 | | 30 |
| 1,3-Dichlorobenzene | 83 | | 82 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 82 | | 80 | | 70-130 | 2 | | 30 |
| Methyl tert butyl ether | 101 | | 101 | | 66-130 | 0 | | 30 |
| p/m-Xylene | 89 | | 87 | | 70-130 | 2 | | 30 |
| o-Xylene | 90 | | 89 | | 70-130 | 1 | | 30 |
| cis-1,2-Dichloroethene | 93 | | 93 | | 70-130 | 0 | | 30 |
| Styrene | 74 | | 73 | | 70-130 | 1 | | 30 |
| Dichlorodifluoromethane | 56 | | 52 | | 30-146 | 7 | | 30 |
| Acetone | 97 | | 90 | | 54-140 | 7 | | 30 |
| Carbon disulfide | 74 | | 72 | | 59-130 | 3 | | 30 |
| 2-Butanone | 104 | | 115 | | 70-130 | 10 | | 30 |
| 4-Methyl-2-pentanone | 110 | | 108 | | 70-130 | 2 | | 30 |
| 2-Hexanone | 104 | | 98 | | 70-130 | 6 | | 30 |
| Bromochloromethane | 91 | | 91 | | 70-130 | 0 | | 30 |
| 1,2-Dibromoethane | 94 | | 94 | | 70-130 | 0 | | 30 |
| 1,2-Dibromo-3-chloropropane | 84 | | 85 | | 68-130 | 1 | | 30 |
| Isopropylbenzene | 90 | | 88 | | 70-130 | 2 | | 30 |
| 1,2,3-Trichlorobenzene | 88 | | 88 | | 70-130 | 0 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07,11,13 Batch: WG1159249-3 WG1159249-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 87 | | 87 | | 70-130 | 0 | | 30 |
| Methyl Acetate | 110 | | 108 | | 51-146 | 2 | | 30 |
| Cyclohexane | 93 | | 90 | | 59-142 | 3 | | 30 |
| 1,4-Dioxane | 99 | | 98 | | 65-136 | 1 | | 30 |
| Freon-113 | 79 | | 77 | | 50-139 | 3 | | 30 |
| Methyl cyclohexane | 91 | | 87 | | 70-130 | 4 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 87 | | 87 | | 70-130 |
| Toluene-d8 | 97 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 112 | | 112 | | 70-130 |
| Dibromofluoromethane | 87 | | 87 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 Batch: WG1159452-3 WG1159452-4 | | | | | | | | |
| Methylene chloride | 100 | | 93 | | 70-130 | 7 | | 30 |
| 1,1-Dichloroethane | 114 | | 104 | | 70-130 | 9 | | 30 |
| Chloroform | 103 | | 95 | | 70-130 | 8 | | 30 |
| Carbon tetrachloride | 107 | | 99 | | 70-130 | 8 | | 30 |
| 1,2-Dichloropropane | 126 | | 119 | | 70-130 | 6 | | 30 |
| Dibromochloromethane | 95 | | 91 | | 70-130 | 4 | | 30 |
| 1,1,2-Trichloroethane | 100 | | 99 | | 70-130 | 1 | | 30 |
| Tetrachloroethene | 107 | | 95 | | 70-130 | 12 | | 30 |
| Chlorobenzene | 100 | | 91 | | 70-130 | 9 | | 30 |
| Trichlorofluoromethane | 98 | | 93 | | 70-139 | 5 | | 30 |
| 1,2-Dichloroethane | 104 | | 101 | | 70-130 | 3 | | 30 |
| 1,1,1-Trichloroethane | 105 | | 94 | | 70-130 | 11 | | 30 |
| Bromodichloromethane | 107 | | 102 | | 70-130 | 5 | | 30 |
| trans-1,3-Dichloropropene | 107 | | 103 | | 70-130 | 4 | | 30 |
| cis-1,3-Dichloropropene | 124 | | 118 | | 70-130 | 5 | | 30 |
| Bromoform | 87 | | 87 | | 70-130 | 0 | | 30 |
| 1,1,2,2-Tetrachloroethane | 92 | | 90 | | 70-130 | 2 | | 30 |
| Benzene | 109 | | 99 | | 70-130 | 10 | | 30 |
| Toluene | 108 | | 98 | | 70-130 | 10 | | 30 |
| Ethylbenzene | 107 | | 97 | | 70-130 | 10 | | 30 |
| Chloromethane | 111 | | 98 | | 52-130 | 12 | | 30 |
| Bromomethane | **53** | Q | **47** | Q | 57-147 | 12 | | 30 |
| Vinyl chloride | 73 | | **64** | Q | 67-130 | 13 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 Batch: WG1159452-3 WG1159452-4 | | | | | | | | |
| Chloroethane | 54 | | **46** | Q | 50-151 | 16 | | 30 |
| 1,1-Dichloroethene | 111 | | 100 | | 65-135 | 10 | | 30 |
| trans-1,2-Dichloroethene | 111 | | 100 | | 70-130 | 10 | | 30 |
| Trichloroethene | 115 | | 103 | | 70-130 | 11 | | 30 |
| 1,2-Dichlorobenzene | 95 | | 89 | | 70-130 | 7 | | 30 |
| 1,3-Dichlorobenzene | 98 | | 90 | | 70-130 | 9 | | 30 |
| 1,4-Dichlorobenzene | 96 | | 88 | | 70-130 | 9 | | 30 |
| Methyl tert butyl ether | 109 | | 108 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 107 | | 97 | | 70-130 | 10 | | 30 |
| o-Xylene | 106 | | 97 | | 70-130 | 9 | | 30 |
| cis-1,2-Dichloroethene | 109 | | 100 | | 70-130 | 9 | | 30 |
| Styrene | 84 | | 78 | | 70-130 | 7 | | 30 |
| Dichlorodifluoromethane | 79 | | 69 | | 30-146 | 14 | | 30 |
| Acetone | 112 | | 108 | | 54-140 | 4 | | 30 |
| Carbon disulfide | 92 | | 83 | | 59-130 | 10 | | 30 |
| 2-Butanone | 112 | | 126 | | 70-130 | 12 | | 30 |
| 4-Methyl-2-pentanone | 115 | | 114 | | 70-130 | 1 | | 30 |
| 2-Hexanone | 111 | | 106 | | 70-130 | 5 | | 30 |
| Bromochloromethane | 102 | | 96 | | 70-130 | 6 | | 30 |
| 1,2-Dibromoethane | 101 | | 100 | | 70-130 | 1 | | 30 |
| 1,2-Dibromo-3-chloropropane | 86 | | 88 | | 68-130 | 2 | | 30 |
| Isopropylbenzene | 111 | | 97 | | 70-130 | 13 | | 30 |
| 1,2,3-Trichlorobenzene | 100 | | 96 | | 70-130 | 4 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 Batch: WG1159452-3 WG1159452-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 106 | | 99 | | 70-130 | 7 | | 30 |
| Methyl Acetate | 114 | | 118 | | 51-146 | 3 | | 30 |
| Cyclohexane | 131 | | 115 | | 59-142 | 13 | | 30 |
| 1,4-Dioxane | 114 | | 100 | | 65-136 | 13 | | 30 |
| Freon-113 | 110 | | 97 | | 50-139 | 13 | | 30 |
| Methyl cyclohexane | 127 | | 110 | | 70-130 | 14 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | | 89 | | 70-130 |
| Toluene-d8 | 97 | | 95 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 110 | | 70-130 |
| Dibromofluoromethane | 87 | | 88 | | 70-130 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1159452-6 WG1159452-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| Methylene chloride | ND | 7100 | 6500 | 92 | | 7000 | 98 | | 70-130 | 6 | | 30 |
| 1,1-Dichloroethane | ND | 7100 | 7200 | 101 | | 7500 | 106 | | 70-130 | 4 | | 30 |
| Chloroform | ND | 7100 | 6700 | 94 | | 7000 | 99 | | 70-130 | 5 | | 30 |
| Carbon tetrachloride | ND | 7100 | 7600 | 106 | | 7700 | 108 | | 70-130 | 2 | | 30 |
| 1,2-Dichloropropane | ND | 7100 | 8200 | 116 | | 8700 | 122 | | 70-130 | 5 | | 30 |
| Dibromochloromethane | ND | 7100 | 6400 | 90 | | 6700 | 95 | | 70-130 | 5 | | 30 |
| 1,1,2-Trichloroethane | ND | 7100 | 7600 | 107 | | 8000 | 112 | | 70-130 | 5 | | 30 |
| Tetrachloroethene | ND | 7100 | 6500 | 91 | | 6300 | 88 | | 70-130 | 3 | | 30 |
| Chlorobenzene | ND | 7100 | 6100 | 86 | | 6100 | 86 | | 70-130 | 0 | | 30 |
| Trichlorofluoromethane | ND | 7100 | 3000 | **42** | Q | 3100 | **44** | Q | 70-139 | 3 | | 30 |
| 1,2-Dichloroethane | ND | 7100 | 6900 | 97 | | 7300 | 103 | | 70-130 | 6 | | 30 |
| 1,1,1-Trichloroethane | ND | 7100 | 7100 | 100 | | 7200 | 101 | | 70-130 | 1 | | 30 |
| Bromodichloromethane | ND | 7100 | 7300 | 102 | | 7700 | 108 | | 70-130 | 6 | | 30 |
| trans-1,3-Dichloropropene | ND | 7100 | 7100 | 100 | | 7400 | 104 | | 70-130 | 4 | | 30 |
| cis-1,3-Dichloropropene | ND | 7100 | 8400 | 118 | | 8800 | 124 | | 70-130 | 5 | | 30 |
| Bromoform | ND | 7100 | 5900 | 83 | | 6100 | 86 | | 70-130 | 3 | | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 7100 | 6000 | 84 | | 6200 | 87 | | 70-130 | 4 | | 30 |
| Benzene | ND | 7100 | 7000 | 99 | | 7300 | 102 | | 70-130 | 3 | | 30 |
| Toluene | ND | 7100 | 6600 | 94 | | 6700 | 94 | | 70-130 | 0 | | 30 |
| Ethylbenzene | ND | 7100 | 6500 | 92 | | 6300 | 88 | | 70-130 | 4 | | 30 |
| Chloromethane | ND | 7100 | 7100 | 100 | | 7500 | 105 | | 52-130 | 5 | | 30 |
| Bromomethane | ND | 7100 | 2900 | **41** | Q | 3200 | **45** | Q | 57-147 | 9 | | 30 |
| Vinyl chloride | ND | 7100 | 5200 | 73 | | 5400 | 76 | | 67-130 | 4 | | 30 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1159452-6 WG1159452-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| Chloroethane | ND | 7100 | 2100 | **29** | Q | 2200 | **30** | Q | 50-151 | 4 | | 30 |
| 1,1-Dichloroethene | ND | 7100 | 7400 | 104 | | 7700 | 108 | | 65-135 | 4 | | 30 |
| trans-1,2-Dichloroethene | ND | 7100 | 7100 | 100 | | 7500 | 105 | | 70-130 | 4 | | 30 |
| Trichloroethene | ND | 7100 | 7400 | 105 | | 7600 | 107 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | ND | 7100 | 5600 | 79 | | 5400 | 76 | | 70-130 | 3 | | 30 |
| 1,3-Dichlorobenzene | ND | 7100 | 5600 | 79 | | 5300 | 75 | | 70-130 | 5 | | 30 |
| 1,4-Dichlorobenzene | ND | 7100 | 5400 | 76 | | 5100 | 72 | | 70-130 | 5 | | 30 |
| Methyl tert butyl ether | ND | 7100 | 7400 | 104 | | 8000 | 112 | | 66-130 | 7 | | 30 |
| p/m-Xylene | ND | 14000 | 13000 | 91 | | 12000 | 89 | | 70-130 | 3 | | 30 |
| o-Xylene | ND | 14000 | 13000 | 92 | | 13000 | 91 | | 70-130 | 2 | | 30 |
| cis-1,2-Dichloroethene | ND | 7100 | 7200 | 101 | | 7600 | 106 | | 70-130 | 5 | | 30 |
| Styrene | ND | 14000 | 10000 | 74 | | 10000 | 74 | | 70-130 | 0 | | 30 |
| Dichlorodifluoromethane | ND | 7100 | 5200 | 74 | | 5300 | 74 | | 30-146 | 0 | | 30 |
| Acetone | ND | 7100 | 6200 | 88 | | 6800 | 95 | | 54-140 | 8 | | 30 |
| Carbon disulfide | ND | 7100 | 5900 | 84 | | 6100 | 86 | | 59-130 | 3 | | 30 |
| 2-Butanone | ND | 7100 | 7400 | 105 | | 7900 | 112 | | 70-130 | 6 | | 30 |
| 4-Methyl-2-pentanone | ND | 7100 | 8200 | 115 | | 8500 | 120 | | 70-130 | 4 | | 30 |
| 2-Hexanone | ND | 7100 | 6800 | 96 | | 7200 | 101 | | 70-130 | 5 | | 30 |
| Bromochloromethane | ND | 7100 | 6700 | 94 | | 7100 | 100 | | 70-130 | 6 | | 30 |
| 1,2-Dibromoethane | ND | 7100 | 6700 | 95 | | 7100 | 100 | | 70-130 | 5 | | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 7100 | 5900 | 83 | | 6200 | 87 | | 68-130 | 5 | | 30 |
| Isopropylbenzene | 140 | 7100 | 6700 | 92 | | 6100 | 84 | | 70-130 | 9 | | 30 |
| 1,2,3-Trichlorobenzene | ND | 7100 | 6100 | 86 | | 6000 | 84 | | 70-130 | 2 | | 30 |

# Matrix Spike Analysis

## *Batch Quality Control*

***Project Name:*** ROME-TURNEY

***Project Number:*** 18-046

***Lab Number:*** L1836228

***Report Date:*** 09/21/18

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1159452-6 WG1159452-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 7100 | 6300 | 89 | | 6000 | 84 | | 70-130 | 5 | | 30 |
| Methyl Acetate | 190J | 7100 | 7900 | 111 | | 8300 | 117 | | 51-146 | 5 | | 30 |
| Cyclohexane | 57.J | 7100 | 8700 | 122 | | 8700 | 123 | | 59-142 | 0 | | 30 |
| 1,4-Dioxane | ND | 350000 | 330000 | 93 | | 360000 | 104 | | 65-136 | 11 | | 30 |
| Freon-113 | ND | 7100 | 7400 | 104 | | 7500 | 106 | | 50-139 | 2 | | 30 |
| Methyl cyclohexane | 500 | 7100 | 9300 | 124 | | 9100 | 121 | | 70-130 | 2 | | 30 |

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | | 90 | | 70-130 |
| 4-Bromofluorobenzene | 123 | | 119 | | 70-130 |
| Dibromofluoromethane | 89 | | 89 | | 70-130 |
| Toluene-d8 | 94 | | 94 | | 70-130 |

# SEMIVOLATILES

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01 D2
Client ID: SB-10
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:31
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 15:49
Analyst: SZ
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 2-Methylnaphthalene | 290000 | | ug/kg | 19000 | 1900 | 80 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01 D
Client ID: SB-10
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:31
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 12:45
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 13000 | | ug/kg | 3200 | 410 | 20 |
| Hexachlorobenzene | ND | | ug/kg | 2400 | 440 | 20 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 3600 | 540 | 20 |
| 2-Chloronaphthalene | ND | | ug/kg | 4000 | 390 | 20 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 4000 | 1000 | 20 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 4000 | 790 | 20 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 4000 | 680 | 20 |
| Fluoranthene | 2200 | J | ug/kg | 2400 | 460 | 20 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 4000 | 420 | 20 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 4000 | 600 | 20 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 4800 | 680 | 20 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 4300 | 400 | 20 |
| Hexachlorobutadiene | ND | | ug/kg | 4000 | 580 | 20 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 11000 | 3600 | 20 |
| Hexachloroethane | ND | | ug/kg | 3200 | 640 | 20 |
| Isophorone | ND | | ug/kg | 3600 | 520 | 20 |
| Naphthalene | 65000 | | ug/kg | 4000 | 480 | 20 |
| Nitrobenzene | ND | | ug/kg | 3600 | 590 | 20 |
| NDPA/DPA | ND | | ug/kg | 3200 | 450 | 20 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 4000 | 610 | 20 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 4000 | 1400 | 20 |
| Butyl benzyl phthalate | ND | | ug/kg | 4000 | 1000 | 20 |
| Di-n-butylphthalate | ND | | ug/kg | 4000 | 750 | 20 |
| Di-n-octylphthalate | ND | | ug/kg | 4000 | 1300 | 20 |
| Diethyl phthalate | ND | | ug/kg | 4000 | 370 | 20 |
| Dimethyl phthalate | ND | | ug/kg | 4000 | 830 | 20 |
| Benzo(a)anthracene | ND | | ug/kg | 2400 | 450 | 20 |
| Benzo(a)pyrene | ND | | ug/kg | 3200 | 970 | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01 D Date Collected: 09/11/18 12:31

Client ID: SB-10 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 2400 | 670 | 20 |
| Benzo(k)fluoranthene | ND | | ug/kg | 2400 | 630 | 20 |
| Chrysene | ND | | ug/kg | 2400 | 410 | 20 |
| Acenaphthylene | ND | | ug/kg | 3200 | 610 | 20 |
| Anthracene | 6700 | | ug/kg | 2400 | 770 | 20 |
| Benzo(ghi)perylene | ND | | ug/kg | 3200 | 470 | 20 |
| Fluorene | 23000 | | ug/kg | 4000 | 380 | 20 |
| Phenanthrene | 56000 | | ug/kg | 2400 | 480 | 20 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 2400 | 460 | 20 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 3200 | 550 | 20 |
| Pyrene | 6900 | | ug/kg | 2400 | 390 | 20 |
| Biphenyl | 1600 | J | ug/kg | 9000 | 920 | 20 |
| 4-Chloroaniline | ND | | ug/kg | 4000 | 720 | 20 |
| 2-Nitroaniline | ND | | ug/kg | 4000 | 760 | 20 |
| 3-Nitroaniline | ND | | ug/kg | 4000 | 750 | 20 |
| 4-Nitroaniline | ND | | ug/kg | 4000 | 1600 | 20 |
| Dibenzofuran | 9700 | | ug/kg | 4000 | 380 | 20 |
| 2-Methylnaphthalene | 260000 | E | ug/kg | 4800 | 480 | 20 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 4000 | 410 | 20 |
| Acetophenone | ND | | ug/kg | 4000 | 490 | 20 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 2400 | 750 | 20 |
| p-Chloro-m-cresol | ND | | ug/kg | 4000 | 590 | 20 |
| 2-Chlorophenol | ND | | ug/kg | 4000 | 470 | 20 |
| 2,4-Dichlorophenol | ND | | ug/kg | 3600 | 640 | 20 |
| 2,4-Dimethylphenol | ND | | ug/kg | 4000 | 1300 | 20 |
| 2-Nitrophenol | ND | | ug/kg | 8600 | 1500 | 20 |
| 4-Nitrophenol | ND | | ug/kg | 5600 | 1600 | 20 |
| 2,4-Dinitrophenol | ND | | ug/kg | 19000 | 1800 | 20 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 10000 | 1900 | 20 |
| Pentachlorophenol | ND | | ug/kg | 3200 | 870 | 20 |
| Phenol | ND | | ug/kg | 4000 | 600 | 20 |
| 2-Methylphenol | ND | | ug/kg | 4000 | 620 | 20 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 5700 | 620 | 20 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 4000 | 760 | 20 |
| Carbazole | ND | | ug/kg | 4000 | 380 | 20 |
| Atrazine | ND | | ug/kg | 3200 | 1400 | 20 |
| Benzaldehyde | ND | | ug/kg | 5200 | 1100 | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01 D
Client ID: SB-10
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:31
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 4000 | 1200 | 20 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 4000 | 800 | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | **0** | Q | 25-120 |
| Phenol-d6 | **0** | Q | 10-120 |
| Nitrobenzene-d5 | **0** | Q | 23-120 |
| 2-Fluorobiphenyl | **0** | Q | 30-120 |
| 2,4,6-Tribromophenol | **0** | Q | 10-136 |
| 4-Terphenyl-d14 | **0** | Q | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02
Client ID: SB-11
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:21
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 00:30
Analyst: RC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 85 | J | ug/kg | 180 | 23. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 25. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 200 | 30. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 220 | 22. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 220 | 59. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 220 | 44. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 220 | 38. | 1 |
| Fluoranthene | 30 | J | ug/kg | 130 | 26. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 220 | 24. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 220 | 34. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 270 | 38. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 240 | 22. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 220 | 33. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 640 | 200 | 1 |
| Hexachloroethane | ND | | ug/kg | 180 | 36. | 1 |
| Isophorone | ND | | ug/kg | 200 | 29. | 1 |
| Naphthalene | 630 | | ug/kg | 220 | 27. | 1 |
| Nitrobenzene | ND | | ug/kg | 200 | 33. | 1 |
| NDPA/DPA | ND | | ug/kg | 180 | 25. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 220 | 34. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 220 | 77. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 220 | 56. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 220 | 42. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 220 | 76. | 1 |
| Diethyl phthalate | ND | | ug/kg | 220 | 21. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 220 | 47. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 130 | 25. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 180 | 54. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02 Date Collected: 09/11/18 12:21

Client ID: SB-11 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 130 | 38. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 130 | 36. | 1 |
| Chrysene | ND | | ug/kg | 130 | 23. | 1 |
| Acenaphthylene | ND | | ug/kg | 180 | 34. | 1 |
| Anthracene | 53 | J | ug/kg | 130 | 43. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 180 | 26. | 1 |
| Fluorene | 170 | J | ug/kg | 220 | 22. | 1 |
| Phenanthrene | 430 | | ug/kg | 130 | 27. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | 26. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 180 | 31. | 1 |
| Pyrene | 52 | J | ug/kg | 130 | 22. | 1 |
| Biphenyl | ND | | ug/kg | 510 | 52. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 220 | 40. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 220 | 43. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 220 | 42. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 220 | 92. | 1 |
| Dibenzofuran | 79 | J | ug/kg | 220 | 21. | 1 |
| 2-Methylnaphthalene | 2400 | | ug/kg | 270 | 27. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 220 | 23. | 1 |
| Acetophenone | ND | | ug/kg | 220 | 28. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 130 | 42. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 220 | 26. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 200 | 36. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 220 | 74. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 480 | 84. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 310 | 91. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1100 | 100 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 580 | 110 | 1 |
| Pentachlorophenol | ND | | ug/kg | 180 | 49. | 1 |
| Phenol | ND | | ug/kg | 220 | 34. | 1 |
| 2-Methylphenol | ND | | ug/kg | 220 | 34. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 320 | 35. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 220 | 43. | 1 |
| Carbazole | ND | | ug/kg | 220 | 22. | 1 |
| Atrazine | ND | | ug/kg | 180 | 78. | 1 |
| Benzaldehyde | ND | | ug/kg | 290 | 60. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02 Date Collected: 09/11/18 12:21

Client ID: SB-11 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 220 | 68. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 220 | 45. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 83 | | 25-120 |
| Phenol-d6 | 87 | | 10-120 |
| Nitrobenzene-d5 | 92 | | 23-120 |
| 2-Fluorobiphenyl | 77 | | 30-120 |
| 2,4,6-Tribromophenol | 81 | | 10-136 |
| 4-Terphenyl-d14 | 59 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03
Client ID: SB-12
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:39
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 04:19
Analyst: RC
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 410 | | ug/kg | 170 | 22. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 23. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 210 | 21. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 210 | 56. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 210 | 42. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 210 | 36. | 1 |
| Fluoranthene | 250 | | ug/kg | 120 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 210 | 22. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 36. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 230 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 210 | 31. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 600 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 170 | 34. | 1 |
| Isophorone | ND | | ug/kg | 190 | 27. | 1 |
| Naphthalene | 1300 | | ug/kg | 210 | 26. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 31. | 1 |
| NDPA/DPA | ND | | ug/kg | 170 | 24. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 210 | 72. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 210 | 53. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 210 | 40. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 210 | 71. | 1 |
| Diethyl phthalate | ND | | ug/kg | 210 | 19. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 210 | 44. | 1 |
| Benzo(a)anthracene | 140 | | ug/kg | 120 | 24. | 1 |
| Benzo(a)pyrene | 130 | J | ug/kg | 170 | 51. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03 Date Collected: 09/11/18 12:39

Client ID: SB-12 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 160 | | ug/kg | 120 | 35. | 1 |
| Benzo(k)fluoranthene | 69 | J | ug/kg | 120 | 33. | 1 |
| Chrysene | 170 | | ug/kg | 120 | 22. | 1 |
| Acenaphthylene | ND | | ug/kg | 170 | 32. | 1 |
| Anthracene | 110 | J | ug/kg | 120 | 41. | 1 |
| Benzo(ghi)perylene | 79 | J | ug/kg | 170 | 25. | 1 |
| Fluorene | 550 | | ug/kg | 210 | 20. | 1 |
| Phenanthrene | 770 | | ug/kg | 120 | 25. | 1 |
| Dibenzo(a,h)anthracene | 28 | J | ug/kg | 120 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | 86 | J | ug/kg | 170 | 29. | 1 |
| Pyrene | 210 | | ug/kg | 120 | 21. | 1 |
| Biphenyl | 420 | J | ug/kg | 480 | 48. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 210 | 38. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 210 | 39. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 210 | 87. | 1 |
| Dibenzofuran | 270 | | ug/kg | 210 | 20. | 1 |
| 2-Methylnaphthalene | 9500 | E | ug/kg | 250 | 25. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 210 | 22. | 1 |
| Acetophenone | ND | | ug/kg | 210 | 26. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 120 | 40. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 210 | 31. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 210 | 25. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 190 | 34. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 210 | 69. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 450 | 79. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 290 | 85. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1000 | 98. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 540 | 100 | 1 |
| Pentachlorophenol | ND | | ug/kg | 170 | 46. | 1 |
| Phenol | ND | | ug/kg | 210 | 32. | 1 |
| 2-Methylphenol | ND | | ug/kg | 210 | 32. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 300 | 33. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 210 | 40. | 1 |
| Carbazole | ND | | ug/kg | 210 | 20. | 1 |
| Atrazine | ND | | ug/kg | 170 | 73. | 1 |
| Benzaldehyde | ND | | ug/kg | 280 | 56. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03 Date Collected: 09/11/18 12:39

Client ID: SB-12 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 210 | 64. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 210 | 42. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 69 | | 25-120 |
| Phenol-d6 | 79 | | 10-120 |
| Nitrobenzene-d5 | 86 | | 23-120 |
| 2-Fluorobiphenyl | 74 | | 30-120 |
| 2,4,6-Tribromophenol | 53 | | 10-136 |
| 4-Terphenyl-d14 | 52 | | 18-120 |

**Project Name:** ROME-TURNEY
**Lab Number:** L1836228
**Project Number:** 18-046
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03 D
Client ID: SB-12
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:39
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 13:11
Analyst: RC
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 2-Methylnaphthalene | 8100 | | ug/kg | 500 | 50. | 2 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04
Client ID: SB-13
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:47
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 00:05
Analyst: RC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/kg | 180 | 23. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 24. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 200 | 30. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 220 | 22. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 220 | 58. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 220 | 44. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 220 | 38. | 1 |
| Fluoranthene | ND | | ug/kg | 130 | 25. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 220 | 23. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 220 | 33. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 260 | 37. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 240 | 22. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 220 | 32. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 630 | 200 | 1 |
| Hexachloroethane | ND | | ug/kg | 180 | 35. | 1 |
| Isophorone | ND | | ug/kg | 200 | 28. | 1 |
| Naphthalene | ND | | ug/kg | 220 | 27. | 1 |
| Nitrobenzene | ND | | ug/kg | 200 | 32. | 1 |
| NDPA/DPA | ND | | ug/kg | 180 | 25. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 220 | 34. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 220 | 76. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 220 | 55. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 220 | 42. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 220 | 74. | 1 |
| Diethyl phthalate | ND | | ug/kg | 220 | 20. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 220 | 46. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 130 | 25. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 180 | 53. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04 Date Collected: 09/11/18 12:47

Client ID: SB-13 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 130 | 37. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 130 | 35. | 1 |
| Chrysene | ND | | ug/kg | 130 | 23. | 1 |
| Acenaphthylene | ND | | ug/kg | 180 | 34. | 1 |
| Anthracene | ND | | ug/kg | 130 | 43. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 180 | 26. | 1 |
| Fluorene | ND | | ug/kg | 220 | 21. | 1 |
| Phenanthrene | ND | | ug/kg | 130 | 27. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | 25. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 180 | 30. | 1 |
| Pyrene | ND | | ug/kg | 130 | 22. | 1 |
| Biphenyl | ND | | ug/kg | 500 | 51. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 220 | 40. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 220 | 42. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 220 | 41. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 220 | 91. | 1 |
| Dibenzofuran | ND | | ug/kg | 220 | 21. | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 260 | 26. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 220 | 23. | 1 |
| Acetophenone | ND | | ug/kg | 220 | 27. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 130 | 42. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 220 | 26. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 200 | 35. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 220 | 72. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 470 | 82. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 310 | 89. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1000 | 100 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 570 | 100 | 1 |
| Pentachlorophenol | ND | | ug/kg | 180 | 48. | 1 |
| Phenol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Methylphenol | ND | | ug/kg | 220 | 34. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 320 | 34. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 220 | 42. | 1 |
| Carbazole | ND | | ug/kg | 220 | 21. | 1 |
| Atrazine | ND | | ug/kg | 180 | 77. | 1 |
| Benzaldehyde | ND | | ug/kg | 290 | 59. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04 Date Collected: 09/11/18 12:47

Client ID: SB-13 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 220 | 67. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 220 | 44. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 74 | | 25-120 |
| Phenol-d6 | 77 | | 10-120 |
| Nitrobenzene-d5 | 80 | | 23-120 |
| 2-Fluorobiphenyl | 76 | | 30-120 |
| 2,4,6-Tribromophenol | 86 | | 10-136 |
| 4-Terphenyl-d14 | 71 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05
Client ID: SB-14
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:28
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 03:28
Analyst: RC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 52 | J | ug/kg | 180 | 23. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 25. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 200 | 30. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 220 | 22. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 220 | 59. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 220 | 44. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 220 | 38. | 1 |
| Fluoranthene | 190 | | ug/kg | 130 | 25. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 220 | 24. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 220 | 34. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 270 | 38. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 240 | 22. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 220 | 32. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 630 | 200 | 1 |
| Hexachloroethane | ND | | ug/kg | 180 | 36. | 1 |
| Isophorone | ND | | ug/kg | 200 | 29. | 1 |
| Naphthalene | 69 | J | ug/kg | 220 | 27. | 1 |
| Nitrobenzene | ND | | ug/kg | 200 | 33. | 1 |
| NDPA/DPA | ND | | ug/kg | 180 | 25. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 220 | 34. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 220 | 77. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 220 | 56. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 220 | 42. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 220 | 75. | 1 |
| Diethyl phthalate | ND | | ug/kg | 220 | 20. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 220 | 46. | 1 |
| Benzo(a)anthracene | 94 | J | ug/kg | 130 | 25. | 1 |
| Benzo(a)pyrene | 72 | J | ug/kg | 180 | 54. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05 Date Collected: 09/11/18 16:28

Client ID: SB-14 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 85 | J | ug/kg | 130 | 37. | 1 |
| Benzo(k)fluoranthene | 49 | J | ug/kg | 130 | 35. | 1 |
| Chrysene | 82 | J | ug/kg | 130 | 23. | 1 |
| Acenaphthylene | ND | | ug/kg | 180 | 34. | 1 |
| Anthracene | 45 | J | ug/kg | 130 | 43. | 1 |
| Benzo(ghi)perylene | 48 | J | ug/kg | 180 | 26. | 1 |
| Fluorene | 62 | J | ug/kg | 220 | 22. | 1 |
| Phenanthrene | 240 | | ug/kg | 130 | 27. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | 26. | 1 |
| Indeno(1,2,3-cd)pyrene | 54 | J | ug/kg | 180 | 31. | 1 |
| Pyrene | 170 | | ug/kg | 130 | 22. | 1 |
| Biphenyl | ND | | ug/kg | 500 | 51. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 220 | 40. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 220 | 43. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 220 | 42. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 220 | 92. | 1 |
| Dibenzofuran | 41 | J | ug/kg | 220 | 21. | 1 |
| 2-Methylnaphthalene | 180 | J | ug/kg | 270 | 27. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 220 | 23. | 1 |
| Acetophenone | ND | | ug/kg | 220 | 27. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 130 | 42. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 220 | 26. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 200 | 36. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 220 | 73. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 480 | 83. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 310 | 90. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1100 | 100 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 580 | 110 | 1 |
| Pentachlorophenol | ND | | ug/kg | 180 | 49. | 1 |
| Phenol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Methylphenol | ND | | ug/kg | 220 | 34. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 320 | 35. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 220 | 42. | 1 |
| Carbazole | ND | | ug/kg | 220 | 22. | 1 |
| Atrazine | ND | | ug/kg | 180 | 78. | 1 |
| Benzaldehyde | ND | | ug/kg | 290 | 60. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05 Date Collected: 09/11/18 16:28

Client ID: SB-14 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 220 | 67. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 220 | 45. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 74 | | 25-120 |
| Phenol-d6 | 80 | | 10-120 |
| Nitrobenzene-d5 | 78 | | 23-120 |
| 2-Fluorobiphenyl | 72 | | 30-120 |
| 2,4,6-Tribromophenol | 66 | | 10-136 |
| 4-Terphenyl-d14 | 53 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06 D
Client ID: SB-15S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:45
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 07:41
Analyst: RC
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/kg | 2800 | 360 | 20 |
| Hexachlorobenzene | ND | | ug/kg | 2100 | 390 | 20 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 3200 | 480 | 20 |
| 2-Chloronaphthalene | ND | | ug/kg | 3500 | 350 | 20 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 3500 | 930 | 20 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 3500 | 700 | 20 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 3500 | 600 | 20 |
| Fluoranthene | 3000 | | ug/kg | 2100 | 400 | 20 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 3500 | 370 | 20 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 3500 | 530 | 20 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 4200 | 600 | 20 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 3800 | 350 | 20 |
| Hexachlorobutadiene | ND | | ug/kg | 3500 | 510 | 20 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 10000 | 3200 | 20 |
| Hexachloroethane | ND | | ug/kg | 2800 | 570 | 20 |
| Isophorone | ND | | ug/kg | 3200 | 450 | 20 |
| Naphthalene | ND | | ug/kg | 3500 | 430 | 20 |
| Nitrobenzene | ND | | ug/kg | 3200 | 520 | 20 |
| NDPA/DPA | ND | | ug/kg | 2800 | 400 | 20 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 3500 | 540 | 20 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 3500 | 1200 | 20 |
| Butyl benzyl phthalate | ND | | ug/kg | 3500 | 880 | 20 |
| Di-n-butylphthalate | ND | | ug/kg | 3500 | 660 | 20 |
| Di-n-octylphthalate | ND | | ug/kg | 3500 | 1200 | 20 |
| Diethyl phthalate | ND | | ug/kg | 3500 | 320 | 20 |
| Dimethyl phthalate | ND | | ug/kg | 3500 | 740 | 20 |
| Benzo(a)anthracene | 1500 | J | ug/kg | 2100 | 390 | 20 |
| Benzo(a)pyrene | 1600 | J | ug/kg | 2800 | 850 | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06 D Date Collected: 09/11/18 16:45

Client ID: SB-15S Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 2100 | | ug/kg | 2100 | 590 | 20 |
| Benzo(k)fluoranthene | 750 | J | ug/kg | 2100 | 560 | 20 |
| Chrysene | 1700 | J | ug/kg | 2100 | 360 | 20 |
| Acenaphthylene | ND | | ug/kg | 2800 | 540 | 20 |
| Anthracene | ND | | ug/kg | 2100 | 680 | 20 |
| Benzo(ghi)perylene | 1100 | J | ug/kg | 2800 | 410 | 20 |
| Fluorene | ND | | ug/kg | 3500 | 340 | 20 |
| Phenanthrene | 2000 | J | ug/kg | 2100 | 430 | 20 |
| Dibenzo(a,h)anthracene | 500 | J | ug/kg | 2100 | 400 | 20 |
| Indeno(1,2,3-cd)pyrene | 1200 | J | ug/kg | 2800 | 490 | 20 |
| Pyrene | 2800 | | ug/kg | 2100 | 350 | 20 |
| Biphenyl | ND | | ug/kg | 8000 | 810 | 20 |
| 4-Chloroaniline | ND | | ug/kg | 3500 | 640 | 20 |
| 2-Nitroaniline | ND | | ug/kg | 3500 | 680 | 20 |
| 3-Nitroaniline | ND | | ug/kg | 3500 | 660 | 20 |
| 4-Nitroaniline | ND | | ug/kg | 3500 | 1400 | 20 |
| Dibenzofuran | ND | | ug/kg | 3500 | 330 | 20 |
| 2-Methylnaphthalene | ND | | ug/kg | 4200 | 420 | 20 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 3500 | 360 | 20 |
| Acetophenone | ND | | ug/kg | 3500 | 430 | 20 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 2100 | 660 | 20 |
| p-Chloro-m-cresol | ND | | ug/kg | 3500 | 520 | 20 |
| 2-Chlorophenol | ND | | ug/kg | 3500 | 410 | 20 |
| 2,4-Dichlorophenol | ND | | ug/kg | 3200 | 560 | 20 |
| 2,4-Dimethylphenol | ND | | ug/kg | 3500 | 1200 | 20 |
| 2-Nitrophenol | ND | | ug/kg | 7600 | 1300 | 20 |
| 4-Nitrophenol | ND | | ug/kg | 4900 | 1400 | 20 |
| 2,4-Dinitrophenol | ND | | ug/kg | 17000 | 1600 | 20 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 9100 | 1700 | 20 |
| Pentachlorophenol | ND | | ug/kg | 2800 | 770 | 20 |
| Phenol | ND | | ug/kg | 3500 | 530 | 20 |
| 2-Methylphenol | ND | | ug/kg | 3500 | 540 | 20 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 5000 | 550 | 20 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 3500 | 670 | 20 |
| Carbazole | ND | | ug/kg | 3500 | 340 | 20 |
| Atrazine | ND | | ug/kg | 2800 | 1200 | 20 |
| Benzaldehyde | ND | | ug/kg | 4600 | 950 | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06 D
Client ID: SB-15S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:45
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 3500 | 1100 | 20 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 3500 | 710 | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | **0** | Q | 25-120 |
| Phenol-d6 | **0** | Q | 10-120 |
| Nitrobenzene-d5 | **0** | Q | 23-120 |
| 2-Fluorobiphenyl | **0** | Q | 30-120 |
| 2,4,6-Tribromophenol | **0** | Q | 10-136 |
| 4-Terphenyl-d14 | **0** | Q | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07
Client ID: SB-15D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:38
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 02:12
Analyst: RC
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/kg | 190 | 25. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 140 | 27. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 220 | 33. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 240 | 24. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 240 | 64. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 240 | 48. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 240 | 42. | 1 |
| Fluoranthene | ND | | ug/kg | 140 | 28. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 240 | 26. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 240 | 37. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 290 | 41. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 260 | 24. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 240 | 36. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 690 | 220 | 1 |
| Hexachloroethane | ND | | ug/kg | 190 | 39. | 1 |
| Isophorone | ND | | ug/kg | 220 | 32. | 1 |
| Naphthalene | ND | | ug/kg | 240 | 30. | 1 |
| Nitrobenzene | ND | | ug/kg | 220 | 36. | 1 |
| NDPA/DPA | ND | | ug/kg | 190 | 28. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 240 | 37. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 240 | 84. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 240 | 61. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 240 | 46. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 240 | 82. | 1 |
| Diethyl phthalate | ND | | ug/kg | 240 | 22. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 240 | 51. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 140 | 27. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 190 | 59. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07 Date Collected: 09/11/18 16:38

Client ID: SB-15D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 140 | 41. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 140 | 39. | 1 |
| Chrysene | ND | | ug/kg | 140 | 25. | 1 |
| Acenaphthylene | ND | | ug/kg | 190 | 37. | 1 |
| Anthracene | ND | | ug/kg | 140 | 47. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 190 | 28. | 1 |
| Fluorene | ND | | ug/kg | 240 | 24. | 1 |
| Phenanthrene | ND | | ug/kg | 140 | 30. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 140 | 28. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 190 | 34. | 1 |
| Pyrene | ND | | ug/kg | 140 | 24. | 1 |
| Biphenyl | ND | | ug/kg | 550 | 56. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 240 | 44. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 240 | 47. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 240 | 46. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 240 | 100 | 1 |
| Dibenzofuran | ND | | ug/kg | 240 | 23. | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 290 | 29. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 240 | 25. | 1 |
| Acetophenone | ND | | ug/kg | 240 | 30. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 140 | 46. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 240 | 36. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 240 | 29. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 220 | 39. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 240 | 80. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 520 | 91. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 340 | 99. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1200 | 110 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 630 | 120 | 1 |
| Pentachlorophenol | ND | | ug/kg | 190 | 53. | 1 |
| Phenol | ND | | ug/kg | 240 | 37. | 1 |
| 2-Methylphenol | ND | | ug/kg | 240 | 38. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 350 | 38. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 240 | 46. | 1 |
| Carbazole | ND | | ug/kg | 240 | 24. | 1 |
| Atrazine | ND | | ug/kg | 190 | 85. | 1 |
| Benzaldehyde | ND | | ug/kg | 320 | 66. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07 Date Collected: 09/11/18 16:38

Client ID: SB-15D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 240 | 74. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 240 | 49. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 68 | | 25-120 |
| Phenol-d6 | 71 | | 10-120 |
| Nitrobenzene-d5 | 72 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 30-120 |
| 2,4,6-Tribromophenol | 75 | | 10-136 |
| 4-Terphenyl-d14 | 57 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08
Client ID: SB-16
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:53
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 04:44
Analyst: RC
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 72 | J | ug/kg | 170 | 22. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 24. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 210 | 21. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 210 | 56. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 210 | 42. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 210 | 36. | 1 |
| Fluoranthene | 1500 | | ug/kg | 130 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 210 | 22. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 36. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 230 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 210 | 31. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 600 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 170 | 34. | 1 |
| Isophorone | ND | | ug/kg | 190 | 27. | 1 |
| Naphthalene | 38 | J | ug/kg | 210 | 26. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 31. | 1 |
| NDPA/DPA | ND | | ug/kg | 170 | 24. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 210 | 73. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 210 | 53. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 210 | 40. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 210 | 72. | 1 |
| Diethyl phthalate | ND | | ug/kg | 210 | 19. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 210 | 44. | 1 |
| Benzo(a)anthracene | 640 | | ug/kg | 130 | 24. | 1 |
| Benzo(a)pyrene | 570 | | ug/kg | 170 | 51. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08 Date Collected: 09/11/18 16:53

Client ID: SB-16 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 710 | | ug/kg | 130 | 35. | 1 |
| Benzo(k)fluoranthene | 280 | | ug/kg | 130 | 34. | 1 |
| Chrysene | 640 | | ug/kg | 130 | 22. | 1 |
| Acenaphthylene | 49 | J | ug/kg | 170 | 32. | 1 |
| Anthracene | 230 | | ug/kg | 130 | 41. | 1 |
| Benzo(ghi)perylene | 360 | | ug/kg | 170 | 25. | 1 |
| Fluorene | 81 | J | ug/kg | 210 | 20. | 1 |
| Phenanthrene | 1000 | | ug/kg | 130 | 26. | 1 |
| Dibenzo(a,h)anthracene | 94 | J | ug/kg | 130 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | 380 | | ug/kg | 170 | 29. | 1 |
| Pyrene | 1200 | | ug/kg | 130 | 21. | 1 |
| Biphenyl | ND | | ug/kg | 480 | 49. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 210 | 38. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 210 | 87. | 1 |
| Dibenzofuran | 44 | J | ug/kg | 210 | 20. | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 250 | 25. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 210 | 22. | 1 |
| Acetophenone | ND | | ug/kg | 210 | 26. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 130 | 40. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 210 | 31. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 210 | 25. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 190 | 34. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 210 | 69. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 450 | 79. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 290 | 86. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1000 | 98. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 550 | 100 | 1 |
| Pentachlorophenol | ND | | ug/kg | 170 | 46. | 1 |
| Phenol | ND | | ug/kg | 210 | 32. | 1 |
| 2-Methylphenol | ND | | ug/kg | 210 | 33. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 300 | 33. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 210 | 40. | 1 |
| Carbazole | 65 | J | ug/kg | 210 | 20. | 1 |
| Atrazine | ND | | ug/kg | 170 | 74. | 1 |
| Benzaldehyde | ND | | ug/kg | 280 | 57. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08 Date Collected: 09/11/18 16:53

Client ID: SB-16 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 210 | 64. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 210 | 42. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 49 | | 25-120 |
| Phenol-d6 | 61 | | 10-120 |
| Nitrobenzene-d5 | 72 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 30-120 |
| 2,4,6-Tribromophenol | 46 | | 10-136 |
| 4-Terphenyl-d14 | 46 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09 D
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 15:22
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 580 | J | ug/kg | 650 | 84. | 4 |
| Hexachlorobenzene | ND | | ug/kg | 480 | 90. | 4 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 730 | 110 | 4 |
| 2-Chloronaphthalene | ND | | ug/kg | 810 | 80. | 4 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 810 | 210 | 4 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 810 | 160 | 4 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 810 | 140 | 4 |
| Fluoranthene | 12000 | | ug/kg | 480 | 93. | 4 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 810 | 86. | 4 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 810 | 120 | 4 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 970 | 140 | 4 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 870 | 81. | 4 |
| Hexachlorobutadiene | ND | | ug/kg | 810 | 120 | 4 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 2300 | 730 | 4 |
| Hexachloroethane | ND | | ug/kg | 650 | 130 | 4 |
| Isophorone | ND | | ug/kg | 730 | 100 | 4 |
| Naphthalene | 740 | J | ug/kg | 810 | 98. | 4 |
| Nitrobenzene | ND | | ug/kg | 730 | 120 | 4 |
| NDPA/DPA | ND | | ug/kg | 650 | 92. | 4 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 810 | 120 | 4 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 810 | 280 | 4 |
| Butyl benzyl phthalate | ND | | ug/kg | 810 | 200 | 4 |
| Di-n-butylphthalate | ND | | ug/kg | 810 | 150 | 4 |
| Di-n-octylphthalate | ND | | ug/kg | 810 | 270 | 4 |
| Diethyl phthalate | ND | | ug/kg | 810 | 75. | 4 |
| Dimethyl phthalate | ND | | ug/kg | 810 | 170 | 4 |
| Benzo(a)anthracene | 6200 | | ug/kg | 480 | 91. | 4 |
| Benzo(a)pyrene | 5400 | | ug/kg | 650 | 200 | 4 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09 D Date Collected: 09/11/18 17:25

Client ID: SB-17S Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 7600 | | ug/kg | 480 | 140 | 4 |
| Benzo(k)fluoranthene | 2600 | | ug/kg | 480 | 130 | 4 |
| Chrysene | 6200 | | ug/kg | 480 | 84. | 4 |
| Acenaphthylene | 660 | | ug/kg | 650 | 120 | 4 |
| Anthracene | 2100 | | ug/kg | 480 | 160 | 4 |
| Benzo(ghi)perylene | 3400 | | ug/kg | 650 | 95. | 4 |
| Fluorene | 710 | J | ug/kg | 810 | 78. | 4 |
| Phenanthrene | 9200 | | ug/kg | 480 | 98. | 4 |
| Dibenzo(a,h)anthracene | 950 | | ug/kg | 480 | 93. | 4 |
| Indeno(1,2,3-cd)pyrene | 3900 | | ug/kg | 650 | 110 | 4 |
| Pyrene | 11000 | | ug/kg | 480 | 80. | 4 |
| Biphenyl | ND | | ug/kg | 1800 | 190 | 4 |
| 4-Chloroaniline | ND | | ug/kg | 810 | 150 | 4 |
| 2-Nitroaniline | ND | | ug/kg | 810 | 160 | 4 |
| 3-Nitroaniline | ND | | ug/kg | 810 | 150 | 4 |
| 4-Nitroaniline | ND | | ug/kg | 810 | 330 | 4 |
| Dibenzofuran | 550 | J | ug/kg | 810 | 76. | 4 |
| 2-Methylnaphthalene | 700 | J | ug/kg | 970 | 98. | 4 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 810 | 84. | 4 |
| Acetophenone | ND | | ug/kg | 810 | 100 | 4 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 480 | 150 | 4 |
| p-Chloro-m-cresol | ND | | ug/kg | 810 | 120 | 4 |
| 2-Chlorophenol | ND | | ug/kg | 810 | 96. | 4 |
| 2,4-Dichlorophenol | ND | | ug/kg | 730 | 130 | 4 |
| 2,4-Dimethylphenol | ND | | ug/kg | 810 | 270 | 4 |
| 2-Nitrophenol | ND | | ug/kg | 1700 | 300 | 4 |
| 4-Nitrophenol | ND | | ug/kg | 1100 | 330 | 4 |
| 2,4-Dinitrophenol | ND | | ug/kg | 3900 | 380 | 4 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 2100 | 390 | 4 |
| Pentachlorophenol | ND | | ug/kg | 650 | 180 | 4 |
| Phenol | ND | | ug/kg | 810 | 120 | 4 |
| 2-Methylphenol | ND | | ug/kg | 810 | 120 | 4 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 1200 | 130 | 4 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 810 | 150 | 4 |
| Carbazole | 1300 | | ug/kg | 810 | 78. | 4 |
| Atrazine | ND | | ug/kg | 650 | 280 | 4 |
| Benzaldehyde | ND | | ug/kg | 1100 | 220 | 4 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09 D Date Collected: 09/11/18 17:25

Client ID: SB-17S Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 810 | 240 | 4 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 810 | 160 | 4 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 25-120 |
| Phenol-d6 | 61 | | 10-120 |
| Nitrobenzene-d5 | 74 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 30-120 |
| 2,4,6-Tribromophenol | 72 | | 10-136 |
| 4-Terphenyl-d14 | 55 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10
Client ID: SB-17D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:45
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/20/18 23:40
Analyst: RC
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/kg | 170 | 22. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 24. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 29. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 220 | 21. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 220 | 58. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 220 | 43. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 220 | 37. | 1 |
| Fluoranthene | ND | | ug/kg | 130 | 25. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 220 | 23. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 220 | 33. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 260 | 37. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 230 | 22. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 220 | 32. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 620 | 200 | 1 |
| Hexachloroethane | ND | | ug/kg | 170 | 35. | 1 |
| Isophorone | ND | | ug/kg | 190 | 28. | 1 |
| Naphthalene | ND | | ug/kg | 220 | 26. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 32. | 1 |
| NDPA/DPA | ND | | ug/kg | 170 | 25. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 220 | 33. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 220 | 75. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 220 | 54. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 220 | 41. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 220 | 74. | 1 |
| Diethyl phthalate | ND | | ug/kg | 220 | 20. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 220 | 45. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 130 | 24. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 170 | 53. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10 Date Collected: 09/11/18 17:45

Client ID: SB-17D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 130 | 36. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 130 | 35. | 1 |
| Chrysene | ND | | ug/kg | 130 | 22. | 1 |
| Acenaphthylene | ND | | ug/kg | 170 | 33. | 1 |
| Anthracene | ND | | ug/kg | 130 | 42. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 170 | 25. | 1 |
| Fluorene | ND | | ug/kg | 220 | 21. | 1 |
| Phenanthrene | ND | | ug/kg | 130 | 26. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | 25. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 170 | 30. | 1 |
| Pyrene | ND | | ug/kg | 130 | 22. | 1 |
| Biphenyl | ND | | ug/kg | 490 | 50. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 220 | 39. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 220 | 42. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 220 | 41. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 220 | 90. | 1 |
| Dibenzofuran | ND | | ug/kg | 220 | 20. | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 260 | 26. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 220 | 23. | 1 |
| Acetophenone | ND | | ug/kg | 220 | 27. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 130 | 41. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 220 | 32. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 220 | 26. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 190 | 35. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 220 | 71. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 470 | 81. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 300 | 88. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1000 | 100 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 560 | 100 | 1 |
| Pentachlorophenol | ND | | ug/kg | 170 | 48. | 1 |
| Phenol | ND | | ug/kg | 220 | 33. | 1 |
| 2-Methylphenol | ND | | ug/kg | 220 | 34. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 310 | 34. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 220 | 41. | 1 |
| Carbazole | ND | | ug/kg | 220 | 21. | 1 |
| Atrazine | ND | | ug/kg | 170 | 76. | 1 |
| Benzaldehyde | ND | | ug/kg | 280 | 58. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10 Date Collected: 09/11/18 17:45

Client ID: SB-17D Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 220 | 66. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 220 | 44. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 79 | | 25-120 |
| Phenol-d6 | 84 | | 10-120 |
| Nitrobenzene-d5 | 87 | | 23-120 |
| 2-Fluorobiphenyl | 74 | | 30-120 |
| 2,4,6-Tribromophenol | 82 | | 10-136 |
| 4-Terphenyl-d14 | 52 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11
Client ID: SB-18
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:01
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 01:21
Analyst: RC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 69 | J | ug/kg | 160 | 21. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 23. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 180 | 28. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 200 | 20. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 200 | 55. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 200 | 41. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 200 | 35. | 1 |
| Fluoranthene | ND | | ug/kg | 120 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 200 | 22. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 200 | 31. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 35. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 220 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 200 | 30. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 590 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 160 | 33. | 1 |
| Isophorone | ND | | ug/kg | 180 | 27. | 1 |
| Naphthalene | 410 | | ug/kg | 200 | 25. | 1 |
| Nitrobenzene | ND | | ug/kg | 180 | 30. | 1 |
| NDPA/DPA | ND | | ug/kg | 160 | 23. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 200 | 32. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 200 | 71. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 200 | 52. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 200 | 39. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 200 | 70. | 1 |
| Diethyl phthalate | ND | | ug/kg | 200 | 19. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 200 | 43. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 120 | 23. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 160 | 50. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11 Date Collected: 09/11/18 17:01

Client ID: SB-18 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 120 | 35. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 120 | 33. | 1 |
| Chrysene | ND | | ug/kg | 120 | 21. | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | 32. | 1 |
| Anthracene | ND | | ug/kg | 120 | 40. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 160 | 24. | 1 |
| Fluorene | 110 | J | ug/kg | 200 | 20. | 1 |
| Phenanthrene | 210 | | ug/kg | 120 | 25. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 120 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 160 | 29. | 1 |
| Pyrene | 43 | J | ug/kg | 120 | 20. | 1 |
| Biphenyl | ND | | ug/kg | 470 | 48. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 200 | 37. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 200 | 40. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 200 | 39. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 200 | 85. | 1 |
| Dibenzofuran | 56 | J | ug/kg | 200 | 19. | 1 |
| 2-Methylnaphthalene | 1500 | | ug/kg | 250 | 25. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 200 | 21. | 1 |
| Acetophenone | ND | | ug/kg | 200 | 25. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 120 | 39. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 200 | 31. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 200 | 24. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 180 | 33. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 200 | 68. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 440 | 77. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 290 | 84. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 990 | 96. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 530 | 99. | 1 |
| Pentachlorophenol | ND | | ug/kg | 160 | 45. | 1 |
| Phenol | ND | | ug/kg | 200 | 31. | 1 |
| 2-Methylphenol | ND | | ug/kg | 200 | 32. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 300 | 32. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 200 | 39. | 1 |
| Carbazole | ND | | ug/kg | 200 | 20. | 1 |
| Atrazine | ND | | ug/kg | 160 | 72. | 1 |
| Benzaldehyde | ND | | ug/kg | 270 | 56. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11 Date Collected: 09/11/18 17:01

Client ID: SB-18 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 200 | 62. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 200 | 42. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 74 | | 25-120 |
| Phenol-d6 | 76 | | 10-120 |
| Nitrobenzene-d5 | 77 | | 23-120 |
| 2-Fluorobiphenyl | 75 | | 30-120 |
| 2,4,6-Tribromophenol | 71 | | 10-136 |
| 4-Terphenyl-d14 | 51 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12
Client ID: SB-19
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:10
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/21/18 06:56
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:19

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 23 | J | ug/kg | 160 | 20. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 22. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 180 | 26. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 190 | 19. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 190 | 52. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 190 | 39. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 190 | 33. | 1 |
| Fluoranthene | 270 | | ug/kg | 120 | 22. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 190 | 21. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 190 | 30. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 230 | 33. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 210 | 19. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 190 | 28. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 560 | 180 | 1 |
| Hexachloroethane | ND | | ug/kg | 160 | 31. | 1 |
| Isophorone | ND | | ug/kg | 180 | 25. | 1 |
| Naphthalene | 51 | J | ug/kg | 190 | 24. | 1 |
| Nitrobenzene | ND | | ug/kg | 180 | 29. | 1 |
| NDPA/DPA | ND | | ug/kg | 160 | 22. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 190 | 30. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 190 | 67. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 190 | 49. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 190 | 37. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 190 | 66. | 1 |
| Diethyl phthalate | ND | | ug/kg | 190 | 18. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 190 | 41. | 1 |
| Benzo(a)anthracene | 140 | | ug/kg | 120 | 22. | 1 |
| Benzo(a)pyrene | 120 | J | ug/kg | 160 | 47. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12 Date Collected: 09/11/18 17:10

Client ID: SB-19 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 140 | | ug/kg | 120 | 33. | 1 |
| Benzo(k)fluoranthene | 52 | J | ug/kg | 120 | 31. | 1 |
| Chrysene | 120 | | ug/kg | 120 | 20. | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | 30. | 1 |
| Anthracene | 65 | J | ug/kg | 120 | 38. | 1 |
| Benzo(ghi)perylene | 63 | J | ug/kg | 160 | 23. | 1 |
| Fluorene | 32 | J | ug/kg | 190 | 19. | 1 |
| Phenanthrene | 220 | | ug/kg | 120 | 24. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 120 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 70 | J | ug/kg | 160 | 27. | 1 |
| Pyrene | 220 | | ug/kg | 120 | 19. | 1 |
| Biphenyl | ND | | ug/kg | 440 | 45. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 190 | 35. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 190 | 38. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 190 | 37. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 190 | 80. | 1 |
| Dibenzofuran | 22 | J | ug/kg | 190 | 18. | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 230 | 24. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 190 | 20. | 1 |
| Acetophenone | ND | | ug/kg | 190 | 24. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 120 | 37. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 190 | 29. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 190 | 23. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 180 | 31. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 190 | 64. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 420 | 73. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 270 | 79. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 930 | 91. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 500 | 93. | 1 |
| Pentachlorophenol | ND | | ug/kg | 160 | 43. | 1 |
| Phenol | ND | | ug/kg | 190 | 29. | 1 |
| 2-Methylphenol | ND | | ug/kg | 190 | 30. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 280 | 30. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 190 | 37. | 1 |
| Carbazole | 29 | J | ug/kg | 190 | 19. | 1 |
| Atrazine | ND | | ug/kg | 160 | 68. | 1 |
| Benzaldehyde | ND | | ug/kg | 260 | 52. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12 Date Collected: 09/11/18 17:10

Client ID: SB-19 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 190 | 59. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 190 | 39. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 86 | | 25-120 |
| Phenol-d6 | 86 | | 10-120 |
| Nitrobenzene-d5 | 78 | | 23-120 |
| 2-Fluorobiphenyl | 79 | | 30-120 |
| 2,4,6-Tribromophenol | 96 | | 10-136 |
| 4-Terphenyl-d14 | 67 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/21/18 02:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:18

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1157375-1 | | | | | |
| Acenaphthene | ND | | ug/kg | 130 | 17. |
| Hexachlorobenzene | ND | | ug/kg | 99 | 18. |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 150 | 22. |
| 2-Chloronaphthalene | ND | | ug/kg | 160 | 16. |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene | ND | | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene | ND | | ug/kg | 160 | 28. |
| Fluoranthene | ND | | ug/kg | 99 | 19. |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 180 | 16. |
| Hexachlorobutadiene | ND | | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene | ND | | ug/kg | 470 | 150 |
| Hexachloroethane | ND | | ug/kg | 130 | 27. |
| Isophorone | ND | | ug/kg | 150 | 21. |
| Naphthalene | ND | | ug/kg | 160 | 20. |
| Nitrobenzene | ND | | ug/kg | 150 | 24. |
| NDPA/DPA | ND | | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 160 | 25. |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 160 | 57. |
| Butyl benzyl phthalate | ND | | ug/kg | 160 | 42. |
| Di-n-butylphthalate | ND | | ug/kg | 160 | 31. |
| Di-n-octylphthalate | ND | | ug/kg | 160 | 56. |
| Diethyl phthalate | ND | | ug/kg | 160 | 15. |
| Dimethyl phthalate | ND | | ug/kg | 160 | 35. |
| Benzo(a)anthracene | ND | | ug/kg | 99 | 18. |
| Benzo(a)pyrene | ND | | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene | ND | | ug/kg | 99 | 28. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/21/18 02:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:18

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1157375-1 | | | | | |
| Benzo(k)fluoranthene | ND | | ug/kg | 99 | 26. |
| Chrysene | ND | | ug/kg | 99 | 17. |
| Acenaphthylene | ND | | ug/kg | 130 | 25. |
| Anthracene | ND | | ug/kg | 99 | 32. |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | 19. |
| Fluorene | ND | | ug/kg | 160 | 16. |
| Phenanthrene | ND | | ug/kg | 99 | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 99 | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | 23. |
| Pyrene | ND | | ug/kg | 99 | 16. |
| Biphenyl | ND | | ug/kg | 380 | 38. |
| 4-Chloroaniline | ND | | ug/kg | 160 | 30. |
| 2-Nitroaniline | ND | | ug/kg | 160 | 32. |
| 3-Nitroaniline | ND | | ug/kg | 160 | 31. |
| 4-Nitroaniline | ND | | ug/kg | 160 | 68. |
| Dibenzofuran | ND | | ug/kg | 160 | 16. |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 160 | 17. |
| Acetophenone | ND | | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 99 | 31. |
| p-Chloro-m-cresol | ND | | ug/kg | 160 | 24. |
| 2-Chlorophenol | ND | | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol | ND | | ug/kg | 150 | 26. |
| 2,4-Dimethylphenol | ND | | ug/kg | 160 | 54. |
| 2-Nitrophenol | ND | | ug/kg | 360 | 62. |
| 4-Nitrophenol | ND | | ug/kg | 230 | 67. |
| 2,4-Dinitrophenol | ND | | ug/kg | 790 | 77. |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 430 | 79. |
| Pentachlorophenol | ND | | ug/kg | 130 | 36. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/21/18 02:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 09/16/18 08:18

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1157375-1 | | | | | |
| Phenol | ND | | ug/kg | 160 | 25. |
| 2-Methylphenol | ND | | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 160 | 32. |
| Carbazole | ND | | ug/kg | 160 | 16. |
| Atrazine | ND | | ug/kg | 130 | 58. |
| Benzaldehyde | ND | | ug/kg | 220 | 44. |
| Caprolactam | ND | | ug/kg | 160 | 50. |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 160 | 33. |
| Tentatively Identified Compounds | | | | | |
| No Tentatively Identified Compounds | ND | | ug/kg | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 67 | | 25-120 |
| Phenol-d6 | 72 | | 10-120 |
| Nitrobenzene-d5 | 63 | | 23-120 |
| 2-Fluorobiphenyl | 72 | | 30-120 |
| 2,4,6-Tribromophenol | 75 | | 10-136 |
| 4-Terphenyl-d14 | 80 | | 18-120 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1157375-2 WG1157375-3 | | | | | | | | |
| Acenaphthene | 85 | | 68 | | 31-137 | 22 | | 50 |
| Hexachlorobenzene | 87 | | 69 | | 40-140 | 23 | | 50 |
| Bis(2-chloroethyl)ether | 79 | | 61 | | 40-140 | 26 | | 50 |
| 2-Chloronaphthalene | 82 | | 68 | | 40-140 | 19 | | 50 |
| 3,3'-Dichlorobenzidine | 85 | | 58 | | 40-140 | 38 | | 50 |
| 2,4-Dinitrotoluene | 89 | | 72 | | 40-132 | 21 | | 50 |
| 2,6-Dinitrotoluene | 86 | | 70 | | 40-140 | 21 | | 50 |
| Fluoranthene | 89 | | 72 | | 40-140 | 21 | | 50 |
| 4-Chlorophenyl phenyl ether | 84 | | 69 | | 40-140 | 20 | | 50 |
| 4-Bromophenyl phenyl ether | 84 | | 69 | | 40-140 | 20 | | 50 |
| Bis(2-chloroisopropyl)ether | 78 | | 59 | | 40-140 | 28 | | 50 |
| Bis(2-chloroethoxy)methane | 83 | | 62 | | 40-117 | 29 | | 50 |
| Hexachlorobutadiene | 77 | | 61 | | 40-140 | 23 | | 50 |
| Hexachlorocyclopentadiene | 72 | | 57 | | 40-140 | 23 | | 50 |
| Hexachloroethane | 80 | | 60 | | 40-140 | 29 | | 50 |
| Isophorone | 83 | | 62 | | 40-140 | 29 | | 50 |
| Naphthalene | 80 | | 65 | | 40-140 | 21 | | 50 |
| Nitrobenzene | 85 | | 61 | | 40-140 | 33 | | 50 |
| NDPA/DPA | 89 | | 73 | | 36-157 | 20 | | 50 |
| n-Nitrosodi-n-propylamine | 86 | | 64 | | 32-121 | 29 | | 50 |
| Bis(2-ethylhexyl)phthalate | 97 | | 77 | | 40-140 | 23 | | 50 |
| Butyl benzyl phthalate | 100 | | 78 | | 40-140 | 25 | | 50 |
| Di-n-butylphthalate | 96 | | 76 | | 40-140 | 23 | | 50 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1157375-2 WG1157375-3 | | | | | | | | |
| Di-n-octylphthalate | 100 | | 78 | | 40-140 | 25 | | 50 |
| Diethyl phthalate | 91 | | 72 | | 40-140 | 23 | | 50 |
| Dimethyl phthalate | 84 | | 70 | | 40-140 | 18 | | 50 |
| Benzo(a)anthracene | 86 | | 68 | | 40-140 | 23 | | 50 |
| Benzo(a)pyrene | 90 | | 70 | | 40-140 | 25 | | 50 |
| Benzo(b)fluoranthene | 90 | | 69 | | 40-140 | 26 | | 50 |
| Benzo(k)fluoranthene | 86 | | 74 | | 40-140 | 15 | | 50 |
| Chrysene | 84 | | 68 | | 40-140 | 21 | | 50 |
| Acenaphthylene | 83 | | 69 | | 40-140 | 18 | | 50 |
| Anthracene | 90 | | 71 | | 40-140 | 24 | | 50 |
| Benzo(ghi)perylene | 89 | | 72 | | 40-140 | 21 | | 50 |
| Fluorene | 87 | | 70 | | 40-140 | 22 | | 50 |
| Phenanthrene | 88 | | 71 | | 40-140 | 21 | | 50 |
| Dibenzo(a,h)anthracene | 91 | | 72 | | 40-140 | 23 | | 50 |
| Indeno(1,2,3-cd)pyrene | 90 | | 72 | | 40-140 | 22 | | 50 |
| Pyrene | 91 | | 72 | | 35-142 | 23 | | 50 |
| Biphenyl | 85 | | 70 | | 54-104 | 19 | | 50 |
| 4-Chloroaniline | 74 | | 55 | | 40-140 | 29 | | 50 |
| 2-Nitroaniline | 88 | | 71 | | 47-134 | 21 | | 50 |
| 3-Nitroaniline | 84 | | 64 | | 26-129 | 27 | | 50 |
| 4-Nitroaniline | 85 | | 69 | | 41-125 | 21 | | 50 |
| Dibenzofuran | 87 | | 69 | | 40-140 | 23 | | 50 |
| 2-Methylnaphthalene | 82 | | 67 | | 40-140 | 20 | | 50 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1157375-2 WG1157375-3 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 80 | | 64 | | 40-117 | 22 | | 50 |
| Acetophenone | 88 | | 65 | | 14-144 | 30 | | 50 |
| 2,4,6-Trichlorophenol | 88 | | 70 | | 30-130 | 23 | | 50 |
| p-Chloro-m-cresol | 90 | | 73 | | 26-103 | 21 | | 50 |
| 2-Chlorophenol | 87 | | 66 | | 25-102 | 27 | | 50 |
| 2,4-Dichlorophenol | 90 | | 70 | | 30-130 | 25 | | 50 |
| 2,4-Dimethylphenol | 92 | | 68 | | 30-130 | 30 | | 50 |
| 2-Nitrophenol | 82 | | 63 | | 30-130 | 26 | | 50 |
| 4-Nitrophenol | 103 | | 84 | | 11-114 | 20 | | 50 |
| 2,4-Dinitrophenol | 64 | | 47 | | 4-130 | 31 | | 50 |
| 4,6-Dinitro-o-cresol | 89 | | 67 | | 10-130 | 28 | | 50 |
| Pentachlorophenol | 86 | | 68 | | 17-109 | 23 | | 50 |
| Phenol | 84 | | 65 | | 26-90 | 26 | | 50 |
| 2-Methylphenol | 90 | | 68 | | 30-130. | 28 | | 50 |
| 3-Methylphenol/4-Methylphenol | 95 | | 69 | | 30-130 | 32 | | 50 |
| 2,4,5-Trichlorophenol | 88 | | 72 | | 30-130 | 20 | | 50 |
| Carbazole | 94 | | 75 | | 54-128 | 22 | | 50 |
| Atrazine | 106 | | 84 | | 40-140 | 23 | | 50 |
| Benzaldehyde | 80 | | 56 | | 40-140 | 35 | | 50 |
| Caprolactam | 84 | | 71 | | 15-130 | 17 | | 50 |
| 2,3,4,6-Tetrachlorophenol | 91 | | 70 | | 40-140 | 26 | | 50 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1157375-2 WG1157375-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 88 | | 66 | | 25-120 |
| Phenol-d6 | 91 | | 68 | | 10-120 |
| Nitrobenzene-d5 | 83 | | 63 | | 23-120 |
| 2-Fluorobiphenyl | 81 | | 68 | | 30-120 |
| 2,4,6-Tribromophenol | 97 | | 76 | | 10-136 |
| 4-Terphenyl-d14 | 85 | | 65 | | 18-120 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-4 WG1157375-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |
| Acenaphthene | 580J | 1600 | 1300 | 81 | | 1400 | 87 | | 31-137 | 7 | | 50 |
| Hexachlorobenzene | ND | 1600 | 930 | 58 | | 940 | 58 | | 40-140 | 1 | | 50 |
| Bis(2-chloroethyl)ether | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 40-140 | 0 | | 50 |
| 2-Chloronaphthalene | ND | 1600 | 1100 | 69 | | 1000 | 62 | | 40-140 | 10 | | 50 |
| 3,3'-Dichlorobenzidine | ND | 1600 | ND | **0** | Q | 280J | **17** | Q | 40-140 | NC | | 50 |
| 2,4-Dinitrotoluene | ND | 1600 | 1000 | 63 | | 1200 | 74 | | 40-132 | 18 | | 50 |
| 2,6-Dinitrotoluene | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 40-140 | 0 | | 50 |
| Fluoranthene | 12000 | 1600 | 10000 | **0** | Q | 10000 | **0** | Q | 40-140 | 0 | | 50 |
| 4-Chlorophenyl phenyl ether | ND | 1600 | 940 | 59 | | 980 | 61 | | 40-140 | 4 | | 50 |
| 4-Bromophenyl phenyl ether | ND | 1600 | 900 | 56 | | 950 | 59 | | 40-140 | 5 | | 50 |
| Bis(2-chloroisopropyl)ether | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 40-140 | 0 | | 50 |
| Bis(2-chloroethoxy)methane | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 40-117 | 0 | | 50 |
| Hexachlorobutadiene | ND | 1600 | 960 | 60 | | 950 | 59 | | 40-140 | 1 | | 50 |
| Hexachlorocyclopentadiene | ND | 1600 | ND | **0** | Q | ND | **0** | Q | 40-140 | NC | | 50 |
| Hexachloroethane | ND | 1600 | 880 | 55 | | 950 | 59 | | 40-140 | 8 | | 50 |
| Isophorone | ND | 1600 | 1000 | 63 | | 1100 | 68 | | 40-140 | 10 | | 50 |
| Naphthalene | 740J | 1600 | 1600 | 100 | | 1600 | 99 | | 40-140 | 0 | | 50 |
| Nitrobenzene | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 40-140 | 0 | | 50 |
| NDPA/DPA | ND | 1600 | 1100 | 69 | | 1100 | 68 | | 36-157 | 0 | | 50 |
| n-Nitrosodi-n-propylamine | ND | 1600 | 1000 | 63 | | 1100 | 68 | | 32-121 | 10 | | 50 |
| Bis(2-ethylhexyl)phthalate | ND | 1600 | 1200 | 75 | | 1300 | 81 | | 40-140 | 8 | | 50 |
| Butyl benzyl phthalate | ND | 1600 | 1100 | 69 | | 1100 | 68 | | 40-140 | 0 | | 50 |
| Di-n-butylphthalate | ND | 1600 | 1100 | 69 | | 1100 | 68 | | 40-140 | 0 | | 50 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-4 WG1157375-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |
| Di-n-octylphthalate | ND | 1600 | 1000 | 63 | | 1100 | 68 | | 40-140 | 10 | | 50 |
| Diethyl phthalate | ND | 1600 | 1100 | 69 | | 1100 | 68 | | 40-140 | 0 | | 50 |
| Dimethyl phthalate | ND | 1600 | 1000 | 63 | | 1100 | 68 | | 40-140 | 10 | | 50 |
| Benzo(a)anthracene | 6200 | 1600 | 5300 | **0** | Q | 5500 | **0** | Q | 40-140 | 4 | | 50 |
| Benzo(a)pyrene | 5400 | 1600 | 4900 | **0** | Q | 4600 | **0** | Q | 40-140 | 6 | | 50 |
| Benzo(b)fluoranthene | 7600 | 1600 | 6700 | **0** | Q | 6300 | **0** | Q | 40-140 | 6 | | 50 |
| Benzo(k)fluoranthene | 2600 | 1600 | 2900 | **19** | Q | 2800 | **12** | Q | 40-140 | 4 | | 50 |
| Chrysene | 6200 | 1600 | 5600 | **0** | Q | 5300 | **0** | Q | 40-140 | 6 | | 50 |
| Acenaphthylene | 660 | 1600 | 1600 | 59 | | 1500 | 52 | | 40-140 | 6 | | 50 |
| Anthracene | 2100 | 1600 | 2300 | **13** | Q | 2500 | **25** | Q | 40-140 | 8 | | 50 |
| Benzo(ghi)perylene | 3400 | 1600 | 3400 | **0** | Q | 3300 | **0** | Q | 40-140 | 3 | | 50 |
| Fluorene | 710J | 1600 | 1500 | 94 | | 1500 | 93 | | 40-140 | 0 | | 50 |
| Phenanthrene | 9200 | 1600 | 7500 | **0** | Q | 7600 | **0** | Q | 40-140 | 1 | | 50 |
| Dibenzo(a,h)anthracene | 950 | 1600 | 1600 | 41 | | 1600 | 40 | | 40-140 | 0 | | 50 |
| Indeno(1,2,3-cd)pyrene | 3900 | 1600 | 3700 | **0** | Q | 3700 | **0** | Q | 40-140 | 0 | | 50 |
| Pyrene | 11000 | 1600 | 8900 | **0** | Q | 8800 | **0** | Q | 35-142 | 1 | | 50 |
| Biphenyl | ND | 1600 | 1100J | 69 | | 1100J | 68 | | 54-104 | 0 | | 50 |
| 4-Chloroaniline | ND | 1600 | 280J | **18** | Q | 440J | **27** | Q | 40-140 | 44 | | 50 |
| 2-Nitroaniline | ND | 1600 | 980 | 61 | | 990 | 61 | | 47-134 | 1 | | 50 |
| 3-Nitroaniline | ND | 1600 | 530J | 33 | | 670J | 42 | | 26-129 | 23 | | 50 |
| 4-Nitroaniline | ND | 1600 | 430J | **27** | Q | 630J | **39** | Q | 41-125 | 38 | | 50 |
| Dibenzofuran | 550J | 1600 | 1300 | 81 | | 1400 | 87 | | 40-140 | 7 | | 50 |
| 2-Methylnaphthalene | 700J | 1600 | 1600 | 100 | | 1600 | 99 | | 40-140 | 0 | | 50 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-4 WG1157375-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1600 | 940 | 59 | | 960 | 60 | | 40-117 | 2 | | 50 |
| Acetophenone | ND | 1600 | 1100 | 69 | | 1200 | 74 | | 14-144 | 9 | | 50 |
| 2,4,6-Trichlorophenol | ND | 1600 | 990 | 62 | | 1000 | 62 | | 30-130 | 1 | | 50 |
| p-Chloro-m-cresol | ND | 1600 | 1100 | 69 | | 1100 | 68 | | 26-103 | 0 | | 50 |
| 2-Chlorophenol | ND | 1600 | 1000 | 63 | | 1000 | 62 | | 25-102 | 0 | | 50 |
| 2,4-Dichlorophenol | ND | 1600 | 1000 | 63 | | 1100 | 68 | | 30-130 | 10 | | 50 |
| 2,4-Dimethylphenol | ND | 1600 | 820 | 51 | | 850 | 53 | | 30-130 | 4 | | 50 |
| 2-Nitrophenol | ND | 1600 | 1000J | 63 | | 1000J | 62 | | 30-130 | 0 | | 50 |
| 4-Nitrophenol | ND | 1600 | 960J | 60 | | 1100 | 68 | | 11-114 | 14 | | 50 |
| 2,4-Dinitrophenol | ND | 1600 | ND | **0** | Q | ND | **0** | Q | 4-130 | NC | | 50 |
| 4,6-Dinitro-o-cresol | ND | 1600 | ND | **0** | Q | ND | **0** | Q | 10-130 | NC | | 50 |
| Pentachlorophenol | ND | 1600 | 990 | 62 | | 1100 | 68 | | 17-109 | 11 | | 50 |
| Phenol | ND | 1600 | 940 | 59 | | 980 | 61 | | 26-90 | 4 | | 50 |
| 2-Methylphenol | ND | 1600 | 920 | 58 | | 940 | 58 | | 30-130. | 2 | | 50 |
| 3-Methylphenol/4-Methylphenol | ND | 1600 | 940J | 59 | | 1000J | 62 | | 30-130 | 6 | | 50 |
| 2,4,5-Trichlorophenol | ND | 1600 | 1000 | 63 | | 980 | 61 | | 30-130 | 2 | | 50 |
| Carbazole | 1300 | 1600 | 2000 | **44** | Q | 2000 | **43** | Q | 54-128 | 0 | | 50 |
| Atrazine | ND | 1600 | 1200 | 75 | | 1300 | 81 | | 40-140 | 8 | | 50 |
| Benzaldehyde | ND | 1600 | 1100 | 69 | | 1200 | 74 | | 40-140 | 9 | | 50 |
| Caprolactam | ND | 1600 | 860 | 54 | | 890 | 55 | | 15-130 | 3 | | 50 |
| 2,3,4,6-Tetrachlorophenol | ND | 1600 | 980 | 61 | | 1000 | 62 | | 40-140 | 2 | | 50 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** ROME-TURNEY

***Project Number:*** 18-046

***Lab Number:*** L1836228

***Report Date:*** 09/21/18

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-4 WG1157375-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 63 | | 68 | | 10-136 |
| 2-Fluorobiphenyl | 60 | | 59 | | 30-120 |
| 2-Fluorophenol | 57 | | 58 | | 25-120 |
| 4-Terphenyl-d14 | 54 | | 51 | | 18-120 |
| Nitrobenzene-d5 | 64 | | 64 | | 23-120 |
| Phenol-d6 | 59 | | 63 | | 10-120 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-6 WG1157375-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| Acenaphthene | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 31-137 | 7 | | 50 |
| Hexachlorobenzene | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-140 | 8 | | 50 |
| Bis(2-chloroethyl)ether | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| 2-Chloronaphthalene | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |
| 3,3'-Dichlorobenzidine | ND | 1750 | 1100 | 63 | | 990 | 56 | | 40-140 | 11 | | 50 |
| 2,4-Dinitrotoluene | ND | 1750 | 1200 | 68 | | 1400 | 79 | | 40-132 | 15 | | 50 |
| 2,6-Dinitrotoluene | ND | 1750 | 1200 | 68 | | 1400 | 79 | | 40-140 | 15 | | 50 |
| Fluoranthene | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-140 | 8 | | 50 |
| 4-Chlorophenyl phenyl ether | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| 4-Bromophenyl phenyl ether | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Bis(2-chloroisopropyl)ether | ND | 1750 | 1500 | 86 | | 1500 | 84 | | 40-140 | 0 | | 50 |
| Bis(2-chloroethoxy)methane | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-117 | 7 | | 50 |
| Hexachlorobutadiene | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-140 | 8 | | 50 |
| Hexachlorocyclopentadiene | ND | 1750 | 1100 | 63 | | 1200 | 67 | | 40-140 | 9 | | 50 |
| Hexachloroethane | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Isophorone | ND | 1750 | 1400 | 80 | | 1500 | 84 | | 40-140 | 7 | | 50 |
| Naphthalene | ND | 1750 | 1600 | 91 | | 1900 | 110 | | 40-140 | 17 | | 50 |
| Nitrobenzene | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |
| NDPA/DPA | ND | 1750 | 1400 | 80 | | 1500 | 84 | | 36-157 | 7 | | 50 |
| n-Nitrosodi-n-propylamine | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 32-121 | 0 | | 50 |
| Bis(2-ethylhexyl)phthalate | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 40-140 | 0 | | 50 |
| Butyl benzyl phthalate | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |
| Di-n-butylphthalate | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-6 WG1157375-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| Di-n-octylphthalate | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 40-140 | 0 | | 50 |
| Diethyl phthalate | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 40-140 | 0 | | 50 |
| Dimethyl phthalate | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |
| Benzo(a)anthracene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Benzo(a)pyrene | ND | 1750 | 1300 | 74 | | 1200 | 67 | | 40-140 | 8 | | 50 |
| Benzo(b)fluoranthene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Benzo(k)fluoranthene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Chrysene | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-140 | 8 | | 50 |
| Acenaphthylene | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 40-140 | 7 | | 50 |
| Anthracene | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 40-140 | 0 | | 50 |
| Benzo(ghi)perylene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Fluorene | ND | 1750 | 1400 | 80 | | 1500 | 84 | | 40-140 | 7 | | 50 |
| Phenanthrene | ND | 1750 | 1500 | 86 | | 1600 | 90 | | 40-140 | 6 | | 50 |
| Dibenzo(a,h)anthracene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| Pyrene | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 35-142 | 0 | | 50 |
| Biphenyl | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 54-104 | 7 | | 50 |
| 4-Chloroaniline | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 40-140 | 0 | | 50 |
| 2-Nitroaniline | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 47-134 | 7 | | 50 |
| 3-Nitroaniline | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 26-129 | 8 | | 50 |
| 4-Nitroaniline | ND | 1750 | 1200 | 68 | | 1100 | 62 | | 41-125 | 9 | | 50 |
| Dibenzofuran | ND | 1750 | 1200 | 68 | | 1400 | 79 | | 40-140 | 15 | | 50 |
| 2-Methylnaphthalene | ND | 1750 | 2800 | **160** | Q | 3800 | **210** | Q | 40-140 | 30 | | 50 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-6 WG1157375-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-117 | 8 | | 50 |
| Acetophenone | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 14-144 | 7 | | 50 |
| 2,4,6-Trichlorophenol | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 30-130 | 7 | | 50 |
| p-Chloro-m-cresol | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 26-103 | 0 | | 50 |
| 2-Chlorophenol | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 25-102 | 8 | | 50 |
| 2,4-Dichlorophenol | ND | 1750 | 1300 | 74 | | 1400 | 79 | | 30-130 | 7 | | 50 |
| 2,4-Dimethylphenol | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 30-130 | 0 | | 50 |
| 2-Nitrophenol | ND | 1750 | 1100 | 63 | | 1200 | 67 | | 30-130 | 9 | | 50 |
| 4-Nitrophenol | ND | 1750 | 1400 | 80 | | 1400 | 79 | | 11-114 | 0 | | 50 |
| 2,4-Dinitrophenol | ND | 1750 | 360J | 21 | | 440J | 25 | | 4-130 | 20 | | 50 |
| 4,6-Dinitro-o-cresol | ND | 1750 | 790 | 45 | | 930 | 52 | | 10-130 | 16 | | 50 |
| Pentachlorophenol | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 17-109 | 0 | | 50 |
| Phenol | ND | 1750 | 1200 | 68 | | 1200 | 67 | | 26-90 | 0 | | 50 |
| 2-Methylphenol | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 30-130. | 0 | | 50 |
| 3-Methylphenol/4-Methylphenol | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 30-130 | 0 | | 50 |
| 2,4,5-Trichlorophenol | ND | 1750 | 1300 | 74 | | 1300 | 73 | | 30-130 | 0 | | 50 |
| Carbazole | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 54-128 | 8 | | 50 |
| Atrazine | ND | 1750 | 1600 | 91 | | 1600 | 90 | | 40-140 | 0 | | 50 |
| Benzaldehyde | ND | 1750 | 1100 | 63 | | 1200 | 67 | | 40-140 | 9 | | 50 |
| Caprolactam | ND | 1750 | 2300 | 130 | | 2700 | **150** | Q | 15-130 | 16 | | 50 |
| 2,3,4,6-Tetrachlorophenol | ND | 1750 | 1200 | 68 | | 1300 | 73 | | 40-140 | 8 | | 50 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** ROME-TURNEY

***Project Number:*** 18-046

***Lab Number:*** L1836228

***Report Date:*** 09/21/18

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1157375-6 WG1157375-7 QC Sample: L1836228-10 Client ID: SB-17D | | | | | | | | | | | | |

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 69 | | 69 | | 10-136 |
| 2-Fluorobiphenyl | 67 | | 71 | | 30-120 |
| 2-Fluorophenol | 67 | | 68 | | 25-120 |
| 4-Terphenyl-d14 | 59 | | 59 | | 18-120 |
| Nitrobenzene-d5 | 69 | | 73 | | 23-120 |
| Phenol-d6 | 72 | | 72 | | 10-120 |

# PCBS

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01
Client ID: SB-10
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:31
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 17:42
Analyst: KB
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.3 | 3.49 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.3 | 3.94 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.3 | 8.34 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.3 | 5.30 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.3 | 5.90 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.3 | 4.30 | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.3 | 7.27 | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.3 | 5.00 | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.3 | 4.07 | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.3 | 3.49 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | A |
| Decachlorobiphenyl | 75 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | B |
| Decachlorobiphenyl | 78 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03
Client ID: SB-12
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 12:39
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 17:54
Analyst: KB
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 41.0 | 3.64 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 41.0 | 4.10 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 41.0 | 8.68 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 41.0 | 5.52 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.0 | 6.14 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 41.0 | 4.48 | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 41.0 | 7.57 | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 41.0 | 5.20 | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 41.0 | 4.24 | 1 | A |
| PCBs, Total | ND | | ug/kg | 41.0 | 3.64 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | A |
| Decachlorobiphenyl | 73 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 75 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Lab Number:** L1836228
**Project Number:** 18-046
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06
Client ID: SB-15S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:45
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 18:06
Analyst: KB
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 33.7 | 2.99 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 33.7 | 3.37 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 33.7 | 7.14 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 33.7 | 4.54 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 33.7 | 5.05 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 33.7 | 3.68 | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 33.7 | 6.22 | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 33.7 | 4.28 | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 33.7 | 3.49 | 1 | A |
| PCBs, Total | ND | | ug/kg | 33.7 | 2.99 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 53 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08
Client ID: SB-16
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 16:53
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 18:19
Analyst: KB
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 42.0 | 3.73 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 42.0 | 4.21 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 42.0 | 8.91 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 42.0 | 5.67 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 42.0 | 6.30 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 42.0 | 4.60 | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 42.0 | 7.77 | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 42.0 | 5.34 | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 42.0 | 4.36 | 1 | A |
| PCBs, Total | ND | | ug/kg | 42.0 | 3.73 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | B |
| Decachlorobiphenyl | 64 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 18:31
Analyst: KB
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.4 | 3.41 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.4 | 3.85 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.4 | 8.15 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.4 | 5.18 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.4 | 5.77 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.4 | 4.21 | 1 | A |
| Aroclor 1260 | 40.9 | | ug/kg | 38.4 | 7.10 | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 38.4 | 4.88 | 1 | A |
| Aroclor 1268 | 17.5 | J | ug/kg | 38.4 | 3.98 | 1 | B |
| PCBs, Total | 58.4 | J | ug/kg | 38.4 | 3.41 | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 53 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | B |
| Decachlorobiphenyl | 60 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12
Client ID: SB-19
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:10
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/20/18 19:08
Analyst: KB
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:57
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.4 | 3.50 | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.4 | 3.94 | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.4 | 8.35 | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.4 | 5.31 | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.4 | 5.91 | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.4 | 4.31 | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.4 | 7.28 | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.4 | 5.00 | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.4 | 4.08 | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.4 | 3.50 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 30-150 | A |
| Decachlorobiphenyl | 59 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 30-150 | B |
| Decachlorobiphenyl | 65 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/20/18 20:10
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 09/16/18 10:49
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03,06,08-09,12 Batch: WG1157392-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 32.5 | 2.88 | A |
| Aroclor 1221 | ND | | ug/kg | 32.5 | 3.25 | A |
| Aroclor 1232 | ND | | ug/kg | 32.5 | 6.88 | A |
| Aroclor 1242 | ND | | ug/kg | 32.5 | 4.38 | A |
| Aroclor 1248 | ND | | ug/kg | 32.5 | 4.87 | A |
| Aroclor 1254 | ND | | ug/kg | 32.5 | 3.55 | A |
| Aroclor 1260 | ND | | ug/kg | 32.5 | 6.00 | A |
| Aroclor 1262 | ND | | ug/kg | 32.5 | 4.12 | A |
| Aroclor 1268 | ND | | ug/kg | 32.5 | 3.36 | A |
| PCBs, Total | ND | | ug/kg | 32.5 | 2.88 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 89 | | 30-150 | A |
| Decachlorobiphenyl | 68 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 30-150 | B |
| Decachlorobiphenyl | 73 | | 30-150 | B |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03,06,08-09,12 Batch: WG1157392-2 WG1157392-3 | | | | | | | | | |
| Aroclor 1016 | 81 | | 83 | | 40-140 | 2 | | 50 | A |
| Aroclor 1260 | 66 | | 68 | | 40-140 | 3 | | 50 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 88 | | 30-150 | A |
| Decachlorobiphenyl | 59 | | 63 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 87 | | 30-150 | B |
| Decachlorobiphenyl | 69 | | 72 | | 30-150 | B |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03,06,08-09,12 QC Batch ID: WG1157392-4 WG1157392-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 249 | 164 | 66 | | 163 | 66 | | 40-140 | 1 | | 50 | A |
| Aroclor 1260 | 40.9 | 249 | 160 | 48 | | 154 | 46 | | 40-140 | 4 | | 50 | B |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 60 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 43 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 56 | | 30-150 | B |
| Decachlorobiphenyl | 50 | | 48 | | 30-150 | B |

# PESTICIDES

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/20/18 18:47
Analyst: JW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/16/18 12:21
Cleanup Method: EPA 3620B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Organochlorine Pesticides by GC - Westborough Lab** | | | | | | | |
| Delta-BHC | ND | | ug/kg | 1.94 | 0.379 | 1 | A |
| Lindane | ND | | ug/kg | 0.807 | 0.360 | 1 | A |
| Alpha-BHC | ND | | ug/kg | 0.807 | 0.229 | 1 | A |
| Beta-BHC | ND | | ug/kg | 1.94 | 0.734 | 1 | A |
| Heptachlor | ND | | ug/kg | 0.968 | 0.434 | 1 | A |
| Aldrin | ND | | ug/kg | 1.94 | 0.682 | 1 | A |
| Heptachlor epoxide | ND | | ug/kg | 3.63 | 1.09 | 1 | A |
| Endrin | ND | | ug/kg | 0.807 | 0.331 | 1 | A |
| Endrin aldehyde | ND | | ug/kg | 2.42 | 0.847 | 1 | A |
| Endrin ketone | ND | | ug/kg | 1.94 | 0.498 | 1 | A |
| Dieldrin | ND | | ug/kg | 1.21 | 0.605 | 1 | A |
| 4,4'-DDE | 7.00 | | ug/kg | 1.94 | 0.448 | 1 | A |
| 4,4'-DDD | ND | | ug/kg | 1.94 | 0.690 | 1 | A |
| 4,4'-DDT | 40.1 | | ug/kg | 3.63 | 1.56 | 1 | B |
| Endosulfan I | ND | | ug/kg | 1.94 | 0.457 | 1 | A |
| Endosulfan II | ND | | ug/kg | 1.94 | 0.647 | 1 | A |
| Endosulfan sulfate | ND | | ug/kg | 0.807 | 0.384 | 1 | A |
| Methoxychlor | ND | | ug/kg | 3.63 | 1.13 | 1 | A |
| Toxaphene | ND | | ug/kg | 36.3 | 10.2 | 1 | A |
| cis-Chlordane | ND | | ug/kg | 2.42 | 0.674 | 1 | A |
| trans-Chlordane | ND | | ug/kg | 2.42 | 0.639 | 1 | A |
| Chlordane | ND | | ug/kg | 15.7 | 6.41 | 1 | A |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09 Date Collected: 09/11/18 17:25

Client ID: SB-17S Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab | | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | **152** | Q | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 102 | | 30-150 | A |
| Decachlorobiphenyl | 149 | | 30-150 | A |

**Project Name:** ROME-TURNEY
**Lab Number:** L1836228
**Project Number:** 18-046
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/18 19:21
Analyst: DGM
Percent Solids: 82%
Methylation Date: 09/15/18 14:55

Extraction Method: EPA 8151A
Extraction Date: 09/15/18 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Chlorinated Herbicides by GC - Westborough Lab** | | | | | | | |
| MCPP | ND | | ug/kg | 3980 | 1250 | 1 | A |
| MCPA | ND | | ug/kg | 3980 | 1120 | 1 | A |
| Dalapon | ND | | ug/kg | 39.8 | 13.0 | 1 | A |
| Dicamba | ND | | ug/kg | 39.8 | 6.68 | 1 | A |
| Dichloroprop | ND | | ug/kg | 39.8 | 11.4 | 1 | A |
| 2,4-D | ND | | ug/kg | 199 | 12.5 | 1 | A |
| 2,4-DB | ND | | ug/kg | 199 | 10.2 | 1 | A |
| 2,4,5-T | ND | | ug/kg | 199 | 6.16 | 1 | A |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 199 | 5.29 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| DCAA | 94 | | 30-150 | A |
| DCAA | 80 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/16/18 18:25
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 09/14/18 15:56

Methylation Date: 09/15/18 14:55

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|---|---|---|---|---|---|
| Chlorinated Herbicides by GC - Westborough Lab for sample(s): 09 Batch: WG1157092-1 | | | | | | |
| MCPP | ND | | ug/kg | 3240 | 1020 | A |
| MCPA | ND | | ug/kg | 3240 | 916. | A |
| Dalapon | ND | | ug/kg | 32.4 | 10.6 | A |
| Dicamba | ND | | ug/kg | 32.4 | 5.44 | A |
| Dichloroprop | ND | | ug/kg | 32.4 | 9.29 | A |
| 2,4-D | ND | | ug/kg | 162 | 10.2 | A |
| 2,4-DB | ND | | ug/kg | 162 | 8.32 | A |
| 2,4,5-T | ND | | ug/kg | 162 | 5.02 | A |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 162 | 4.31 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| DCAA | 119 | | 30-150 | A |
| DCAA | 85 | | 30-150 | B |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/20/18 18:09
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 09/16/18 12:21
Cleanup Method: EPA 3620B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1157414-1 | | | | | | |
| Delta-BHC | ND | | ug/kg | 1.52 | 0.297 | A |
| Lindane | ND | | ug/kg | 0.632 | 0.282 | A |
| Alpha-BHC | ND | | ug/kg | 0.632 | 0.180 | A |
| Beta-BHC | ND | | ug/kg | 1.52 | 0.575 | A |
| Heptachlor | ND | | ug/kg | 0.758 | 0.340 | A |
| Aldrin | ND | | ug/kg | 1.52 | 0.534 | A |
| Heptachlor epoxide | ND | | ug/kg | 2.84 | 0.853 | A |
| Endrin | ND | | ug/kg | 0.632 | 0.259 | A |
| Endrin aldehyde | ND | | ug/kg | 1.90 | 0.664 | A |
| Endrin ketone | ND | | ug/kg | 1.52 | 0.391 | A |
| Dieldrin | ND | | ug/kg | 0.948 | 0.474 | A |
| 4,4'-DDE | ND | | ug/kg | 1.52 | 0.351 | A |
| 4,4'-DDD | ND | | ug/kg | 1.52 | 0.541 | A |
| 4,4'-DDT | ND | | ug/kg | 2.84 | 1.22 | A |
| Endosulfan I | ND | | ug/kg | 1.52 | 0.358 | A |
| Endosulfan II | ND | | ug/kg | 1.52 | 0.507 | A |
| Endosulfan sulfate | ND | | ug/kg | 0.632 | 0.301 | A |
| Methoxychlor | ND | | ug/kg | 2.84 | 0.885 | A |
| Toxaphene | ND | | ug/kg | 28.4 | 7.96 | A |
| cis-Chlordane | ND | | ug/kg | 1.90 | 0.528 | A |
| trans-Chlordane | ND | | ug/kg | 1.90 | 0.501 | A |
| Chlordane | ND | | ug/kg | 12.3 | 5.02 | A |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/20/18 18:09
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 09/16/18 12:21
Cleanup Method: EPA 3620B
Cleanup Date: 09/17/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1157414-1 | | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 87 | | 30-150 | B |
| Decachlorobiphenyl | 90 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 82 | | 30-150 | A |
| Decachlorobiphenyl | 109 | | 30-150 | A |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1157092-2 WG1157092-3 | | | | | | | | | |
| MCPP | 134 | | 116 | | 30-150 | 14 | | 30 | A |
| MCPA | 131 | | 107 | | 30-150 | 20 | | 30 | A |
| Dalapon | 101 | | 87 | | 30-150 | 15 | | 30 | A |
| Dicamba | 119 | | 97 | | 30-150 | 20 | | 30 | A |
| Dichloroprop | **222** | Q | **151** | Q | 30-150 | **38** | Q | 30 | A |
| 2,4-D | **156** | Q | **177** | Q | 30-150 | 13 | | 30 | A |
| 2,4-DB | **190** | Q | **163** | Q | 30-150 | 15 | | 30 | A |
| 2,4,5-T | 112 | | 94 | | 30-150 | 17 | | 30 | A |
| 2,4,5-TP (Silvex) | 125 | | 111 | | 30-150 | 12 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| DCAA | 135 | | 100 | | 30-150 | A |
| DCAA | 99 | | 87 | | 30-150 | B |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1157414-2 WG1157414-3 | | | | | | | | | |
| Delta-BHC | 79 | | 80 | | 30-150 | 1 | | 30 | A |
| Lindane | 78 | | 80 | | 30-150 | 3 | | 30 | A |
| Alpha-BHC | 82 | | 84 | | 30-150 | 2 | | 30 | A |
| Beta-BHC | 86 | | 87 | | 30-150 | 1 | | 30 | A |
| Heptachlor | 94 | | 96 | | 30-150 | 2 | | 30 | A |
| Aldrin | 76 | | 79 | | 30-150 | 4 | | 30 | A |
| Heptachlor epoxide | 100 | | 103 | | 30-150 | 3 | | 30 | A |
| Endrin | 95 | | 91 | | 30-150 | 4 | | 30 | A |
| Endrin aldehyde | 64 | | 68 | | 30-150 | 6 | | 30 | A |
| Endrin ketone | 88 | | 93 | | 30-150 | 6 | | 30 | A |
| Dieldrin | 86 | | 88 | | 30-150 | 2 | | 30 | A |
| 4,4'-DDE | 71 | | 72 | | 30-150 | 1 | | 30 | A |
| 4,4'-DDD | 82 | | 82 | | 30-150 | 0 | | 30 | A |
| 4,4'-DDT | 85 | | 86 | | 30-150 | 1 | | 30 | A |
| Endosulfan I | 75 | | 76 | | 30-150 | 1 | | 30 | A |
| Endosulfan II | 86 | | 84 | | 30-150 | 2 | | 30 | A |
| Endosulfan sulfate | 71 | | 74 | | 30-150 | 4 | | 30 | A |
| Methoxychlor | 92 | | 99 | | 30-150 | 7 | | 30 | A |
| cis-Chlordane | 62 | | 62 | | 30-150 | 0 | | 30 | A |
| trans-Chlordane | 70 | | 61 | | 30-150 | 14 | | 30 | A |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1157414-2 WG1157414-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 93 | | 30-150 | B |
| Decachlorobiphenyl | 97 | | 101 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 92 | | 30-150 | A |
| Decachlorobiphenyl | 129 | | 129 | | 30-150 | A |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1157092-4 WG1157092-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | | |
| MCPP | ND | 20000 | 18900 | 95 | | 24700 | 124 | | 30-150 | 27 | | 30 | A |
| MCPA | ND | 20000 | 20200 | 101 | | 23200 | 117 | | 30-150 | 14 | | 30 | A |
| Dalapon | ND | 200 | 167 | 84 | | 174 | 88 | | 30-150 | 4 | | 30 | A |
| Dicamba | ND | 200 | 186 | 93 | | 203 | 102 | | 30-150 | 9 | | 30 | A |
| Dichloroprop | ND | 200 | 225 | 112 | | 241 | 121 | | 30-150 | 7 | | 30 | A |
| 2,4-D | ND | 200 | 203 | 101 | | 234 | 118 | | 30-150 | 14 | | 30 | A |
| 2,4-DB | ND | 200 | 354 | **177** | Q | 335 | **169** | Q | 30-150 | 6 | | 30 | A |
| 2,4,5-T | ND | 200 | 170J | 85 | | 190.J | 96 | | 30-150 | 11 | | 30 | A |
| 2,4,5-TP (Silvex) | ND | 200 | 207 | 103 | | 240 | 121 | | 30-150 | 15 | | 30 | A |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| DCAA | 84 | | 95 | | 30-150 | A |
| DCAA | 78 | | 83 | | 30-150 | B |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1157414-4 WG1157414-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | | |
| Delta-BHC | ND | 38.6 | 28.3 | 73 | | 34.3 | 86 | | 30-150 | 19 | | 50 | A |
| Lindane | ND | 38.6 | 33.3 | 86 | | 31.7 | 79 | | 30-150 | 5 | | 50 | A |
| Alpha-BHC | ND | 38.6 | 33.0 | 86 | | 35.1 | 88 | | 30-150 | 6 | | 50 | A |
| Beta-BHC | ND | 38.6 | 17.9 | 46 | | 19.2 | 48 | | 30-150 | 7 | | 50 | A |
| Heptachlor | ND | 38.6 | 30.4 | 79 | | 32.6 | 81 | | 30-150 | 7 | | 50 | A |
| Aldrin | ND | 38.6 | 31.4 | 81 | | 34.1 | 85 | | 30-150 | 8 | | 50 | A |
| Heptachlor epoxide | ND | 38.6 | 31.8 | 82 | | 34.8 | 87 | | 30-150 | 9 | | 50 | A |
| Endrin | ND | 38.6 | 41.4 | 107 | | 44.3 | 111 | | 30-150 | 7 | | 50 | A |
| Endrin aldehyde | ND | 38.6 | 17.6 | 46 | | 18.2 | 45 | | 30-150 | 3 | | 50 | A |
| Endrin ketone | ND | 38.6 | 46.5 | 120 | | 45.2 | 113 | | 30-150 | 3 | | 50 | A |
| Dieldrin | ND | 38.6 | 33.1 | 86 | | 44.4 | 111 | | 30-150 | 29 | | 50 | A |
| 4,4'-DDE | 7.00 | 38.6 | 26.2 | 50 | | 26.4 | 48 | | 30-150 | 1 | | 50 | A |
| 4,4'-DDD | ND | 38.6 | 25.3 | 66 | | 29.5 | 74 | | 30-150 | 15 | | 50 | A |
| 4,4'-DDT | 40.1 | 38.6 | 72.4 | 84 | | 66.6 | 66 | | 30-150 | 8 | | 50 | B |
| Endosulfan I | ND | 38.6 | 28.6 | 74 | | 33.3 | 83 | | 30-150 | 15 | | 50 | A |
| Endosulfan II | ND | 38.6 | 31.7 | 82 | | 35.0 | 87 | | 30-150 | 10 | | 50 | A |
| Endosulfan sulfate | ND | 38.6 | 19.3 | 50 | | 21.1 | 53 | | 30-150 | 9 | | 50 | A |
| Methoxychlor | ND | 38.6 | 41.7 | 108 | | 47.0 | 117 | | 30-150 | 12 | | 50 | A |
| cis-Chlordane | ND | 38.6 | 26.0 | 67 | | 28.3 | 71 | | 30-150 | 8 | | 50 | A |
| trans-Chlordane | ND | 38.6 | 21.4 | 55 | | 23.5 | 59 | | 30-150 | 9 | | 50 | A |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** ROME-TURNEY

***Project Number:*** 18-046

***Lab Number:*** L1836228

***Report Date:*** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1157414-4 WG1157414-5 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 93 | | 86 | | 30-150 | B |
| Decachlorobiphenyl | 140 | | 127 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 100 | | 99 | | 30-150 | A |
| Decachlorobiphenyl | **169** | Q | **185** | Q | 30-150 | A |

# METALS

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01 Date Collected: 09/11/18 12:31

Client ID: SB-10 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 3230 | | mg/kg | 9.61 | 2.59 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 2.58 | J | mg/kg | 4.80 | 0.365 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 29.0 | | mg/kg | 0.961 | 0.200 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 67.1 | | mg/kg | 0.961 | 0.167 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.365 | J | mg/kg | 0.480 | 0.032 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 3.73 | | mg/kg | 0.961 | 0.094 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 3270 | | mg/kg | 9.61 | 3.36 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 13.3 | | mg/kg | 0.961 | 0.092 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 5.95 | | mg/kg | 1.92 | 0.159 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 148 | | mg/kg | 0.961 | 0.248 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 43100 | | mg/kg | 4.80 | 0.868 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 840 | | mg/kg | 4.80 | 0.258 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 758 | | mg/kg | 9.61 | 1.48 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 377 | | mg/kg | 0.961 | 0.153 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 0.626 | | mg/kg | 0.076 | 0.016 | 1 | 09/20/18 09:00 | 09/20/18 21:34 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 13.7 | | mg/kg | 2.40 | 0.232 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 264 | | mg/kg | 240 | 13.8 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 2.20 | | mg/kg | 1.92 | 0.248 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.961 | 0.272 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 49.2 | J | mg/kg | 192 | 3.03 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.92 | 0.303 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 38.0 | | mg/kg | 0.961 | 0.195 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 371 | | mg/kg | 4.80 | 0.282 | 2 | 09/20/18 15:26 | 09/20/18 22:08 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03 Date Collected: 09/11/18 12:39

Client ID: SB-12 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 9650 | | mg/kg | 9.83 | 2.65 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | ND | | mg/kg | 4.91 | 0.373 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 13.5 | | mg/kg | 0.983 | 0.204 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 132 | | mg/kg | 0.983 | 0.171 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.590 | | mg/kg | 0.491 | 0.032 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 9.83 | | mg/kg | 0.983 | 0.096 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 19400 | | mg/kg | 9.83 | 3.44 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 69.5 | | mg/kg | 0.983 | 0.094 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 5.64 | | mg/kg | 1.96 | 0.163 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 15000 | | mg/kg | 9.83 | 2.54 | 20 | 09/20/18 15:26 | 09/20/18 23:44 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 34700 | | mg/kg | 4.91 | 0.887 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 4320 | | mg/kg | 4.91 | 0.263 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 1420 | | mg/kg | 9.83 | 1.51 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 1340 | | mg/kg | 0.983 | 0.156 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 1.85 | | mg/kg | 0.082 | 0.017 | 1 | 09/20/18 09:00 | 09/20/18 21:36 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 16.4 | | mg/kg | 2.46 | 0.238 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 591 | | mg/kg | 246 | 14.2 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 1.85 | J | mg/kg | 1.96 | 0.254 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Silver, Total | 1.71 | | mg/kg | 0.983 | 0.278 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 112 | J | mg/kg | 196 | 3.10 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.96 | 0.310 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 16.8 | | mg/kg | 0.983 | 0.199 | 2 | 09/20/18 15:26 | 09/20/18 22:12 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 6250 | | mg/kg | 49.1 | 2.88 | 20 | 09/20/18 15:26 | 09/20/18 23:44 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06 Date Collected: 09/11/18 16:45

Client ID: SB-15S Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 2060 | | mg/kg | 8.44 | 2.28 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | ND | | mg/kg | 4.22 | 0.320 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 4.86 | | mg/kg | 0.844 | 0.175 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 11.2 | | mg/kg | 0.844 | 0.147 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.076 | J | mg/kg | 0.422 | 0.028 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 3.17 | | mg/kg | 0.844 | 0.083 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 261000 | | mg/kg | 84.4 | 29.5 | 20 | 09/20/18 15:26 | 09/20/18 23:48 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 4.69 | | mg/kg | 0.844 | 0.081 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 1.84 | | mg/kg | 1.69 | 0.140 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 49.1 | | mg/kg | 0.844 | 0.218 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 8500 | | mg/kg | 4.22 | 0.762 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 205 | | mg/kg | 4.22 | 0.226 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 4610 | | mg/kg | 8.44 | 1.30 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 97.7 | | mg/kg | 0.844 | 0.134 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | ND | | mg/kg | 0.067 | 0.014 | 1 | 09/20/18 09:00 | 09/20/18 21:38 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 5.70 | | mg/kg | 2.11 | 0.204 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 274 | | mg/kg | 211 | 12.1 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | ND | | mg/kg | 1.69 | 0.218 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.844 | 0.239 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 159 | J | mg/kg | 169 | 2.66 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.69 | 0.266 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 8.39 | | mg/kg | 0.844 | 0.171 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 1250 | | mg/kg | 4.22 | 0.247 | 2 | 09/20/18 15:26 | 09/20/18 22:17 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08 Date Collected: 09/11/18 16:53

Client ID: SB-16 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 3540 | | mg/kg | 9.74 | 2.63 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 4.98 | | mg/kg | 4.87 | 0.370 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 10.8 | | mg/kg | 0.974 | 0.203 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 65.0 | | mg/kg | 0.974 | 0.170 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.458 | J | mg/kg | 0.487 | 0.032 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 3.81 | | mg/kg | 0.974 | 0.096 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 2850 | | mg/kg | 9.74 | 3.41 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 9.96 | | mg/kg | 0.974 | 0.094 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 5.66 | | mg/kg | 1.95 | 0.162 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 308 | | mg/kg | 0.974 | 0.251 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 20400 | | mg/kg | 4.87 | 0.880 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 503 | | mg/kg | 4.87 | 0.261 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 641 | | mg/kg | 9.74 | 1.50 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 130 | | mg/kg | 0.974 | 0.155 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 3.93 | | mg/kg | 0.403 | 0.085 | 5 | 09/20/18 09:00 | 09/20/18 22:59 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 13.2 | | mg/kg | 2.44 | 0.236 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 280 | | mg/kg | 244 | 14.0 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 2.70 | | mg/kg | 1.95 | 0.251 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.974 | 0.276 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 89.4 | J | mg/kg | 195 | 3.07 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.95 | 0.307 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 18.6 | | mg/kg | 0.974 | 0.198 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 253 | | mg/kg | 4.87 | 0.285 | 2 | 09/20/18 15:26 | 09/20/18 22:21 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY
**Lab Number:** L1836228
**Project Number:** 18-046
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY
Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 5270 | | mg/kg | 9.33 | 2.52 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 4.17 | J | mg/kg | 4.67 | 0.355 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 20.9 | | mg/kg | 0.933 | 0.194 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 88.1 | | mg/kg | 0.933 | 0.162 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.439 | J | mg/kg | 0.467 | 0.031 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 3.09 | | mg/kg | 0.933 | 0.092 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 35700 | | mg/kg | 9.33 | 3.27 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 11.1 | | mg/kg | 0.933 | 0.090 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 5.99 | | mg/kg | 1.87 | 0.155 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 320 | | mg/kg | 0.933 | 0.241 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 21300 | | mg/kg | 4.67 | 0.843 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 770 | | mg/kg | 4.67 | 0.250 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 2360 | | mg/kg | 9.33 | 1.44 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 344 | | mg/kg | 0.933 | 0.148 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 7.51 | | mg/kg | 0.386 | 0.082 | 5 | 09/20/18 09:00 | 09/20/18 22:53 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 16.1 | | mg/kg | 2.33 | 0.226 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 320 | | mg/kg | 233 | 13.4 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 1.39 | J | mg/kg | 1.87 | 0.241 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.933 | 0.264 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 70.2 | J | mg/kg | 187 | 2.94 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.87 | 0.294 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 23.8 | | mg/kg | 0.933 | 0.189 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 920 | | mg/kg | 4.67 | 0.273 | 2 | 09/20/18 15:26 | 09/20/18 21:15 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12 Date Collected: 09/11/18 17:10

Client ID: SB-19 Date Received: 09/12/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 6190 | | mg/kg | 9.48 | 2.56 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 0.502 | J | mg/kg | 4.74 | 0.360 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 4.09 | | mg/kg | 0.948 | 0.197 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 25.1 | | mg/kg | 0.948 | 0.165 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.256 | J | mg/kg | 0.474 | 0.031 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 0.332 | J | mg/kg | 0.948 | 0.093 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 13000 | | mg/kg | 9.48 | 3.32 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 7.58 | | mg/kg | 0.948 | 0.091 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 4.76 | | mg/kg | 1.90 | 0.157 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 25.5 | | mg/kg | 0.948 | 0.244 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 14200 | | mg/kg | 4.74 | 0.856 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 7.19 | | mg/kg | 4.74 | 0.254 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 2570 | | mg/kg | 9.48 | 1.46 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 458 | | mg/kg | 0.948 | 0.151 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | ND | | mg/kg | 0.074 | 0.016 | 1 | 09/20/18 09:00 | 09/20/18 21:42 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 11.2 | | mg/kg | 2.37 | 0.229 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 305 | | mg/kg | 237 | 13.6 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 0.654 | J | mg/kg | 1.90 | 0.244 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.948 | 0.268 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 23.5 | J | mg/kg | 190 | 2.98 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.90 | 0.298 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 10.1 | | mg/kg | 0.948 | 0.192 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 39.2 | | mg/kg | 4.74 | 0.278 | 2 | 09/20/18 15:26 | 09/20/18 22:25 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1836228

**Project Number:** 18-046 **Report Date:** 09/21/18

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01,03,06,08-09,12 Batch: WG1158776-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | 0.018 | 1 | 09/20/18 09:00 | 09/20/18 20:57 | 1,7471B | EA |

**Prep Information**

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01,03,06,08-09,12 Batch: WG1159014-1 | | | | | | | | | | |
| Aluminum, Total | ND | | mg/kg | 4.00 | 1.08 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Antimony, Total | ND | | mg/kg | 2.00 | 0.152 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.200 | 0.013 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Calcium, Total | ND | | mg/kg | 4.00 | 1.40 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Chromium, Total | ND | | mg/kg | 0.400 | 0.038 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Cobalt, Total | ND | | mg/kg | 0.800 | 0.066 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Copper, Total | ND | | mg/kg | 0.400 | 0.103 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Iron, Total | ND | | mg/kg | 2.00 | 0.361 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Magnesium, Total | ND | | mg/kg | 4.00 | 0.616 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Manganese, Total | 0.152 | J | mg/kg | 0.400 | 0.064 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Nickel, Total | ND | | mg/kg | 1.00 | 0.097 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Potassium, Total | ND | | mg/kg | 100 | 5.76 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Sodium, Total | ND | | mg/kg | 80.0 | 1.26 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 0.800 | 0.126 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Vanadium, Total | ND | | mg/kg | 0.400 | 0.081 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |
| Zinc, Total | ND | | mg/kg | 2.00 | 0.117 | 1 | 09/20/18 15:26 | 09/20/18 21:06 | 1,6010D | AB |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

# Method Blank Analysis
# Batch Quality Control

**Prep Information**

Digestion Method: EPA 3050B

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 Batch: WG1158776-2 SRM Lot Number: D102-540 | | | | | | | | |
| Mercury, Total | 98 | | - | | 65-134 | - | | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 Batch: WG1159014-2 SRM Lot Number: D102-540 | | | | | |
| Aluminum, Total | 66 | - | 49-150 | - | |
| Antimony, Total | 119 | - | 1-199 | - | |
| Arsenic, Total | 95 | - | 83-117 | - | |
| Barium, Total | 97 | - | 83-118 | - | |
| Beryllium, Total | 98 | - | 83-116 | - | |
| Cadmium, Total | 101 | - | 83-118 | - | |
| Calcium, Total | 89 | - | 82-118 | - | |
| Chromium, Total | 91 | - | 83-117 | - | |
| Cobalt, Total | 90 | - | 84-116 | - | |
| Copper, Total | 96 | - | 84-116 | - | |
| Iron, Total | 79 | - | 61-139 | - | |
| Lead, Total | 92 | - | 82-118 | - | |
| Magnesium, Total | 83 | - | 76-124 | - | |
| Manganese, Total | 94 | - | 82-118 | - | |
| Nickel, Total | 93 | - | 83-117 | - | |
| Potassium, Total | 81 | - | 70-130 | - | |
| Selenium, Total | 100 | - | 79-121 | - | |
| Silver, Total | 94 | - | 80-120 | - | |
| Sodium, Total | 105 | - | 74-126 | - | |
| Thallium, Total | 96 | - | 81-119 | - | |
| Vanadium, Total | 91 | - | 80-120 | - | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1836228

**Report Date:** 09/21/18

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 Batch: WG1159014-2 SRM Lot Number: D102-540 | | | | | |
| Zinc, Total | 91 | - | 81-118 | - | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 QC Batch ID: WG1158776-3 WG1158776-4 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | | |
| Mercury, Total | 7.51 | 0.154 | 1.34 | **0** | Q | 6.05 | **0** | Q | 80-120 | **127** | Q | 20 |
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 QC Batch ID: WG1158776-5 WG1158776-6 QC Sample: L1836693-04 Client ID: MS Sample | | | | | | | | | | | | |
| Mercury, Total | ND | 0.147 | 0.158 | 108 | | 0.153 | 105 | | 80-120 | 3 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | | MSD Found | MSD %Recovery | | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 QC Batch ID: WG1159014-3 WG1159014-4 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | |
| Aluminum, Total | 5270 | 193 | 6060 | **408** | Q | 6040 | **404** | Q | 75-125 | 0 | 20 |
| Antimony, Total | 4.17J | 48.4 | 44.7 | 92 | | 43.4 | 91 | | 75-125 | 3 | 20 |
| Arsenic, Total | 20.9 | 11.6 | 32.7 | 102 | | 34.6 | 120 | | 75-125 | 6 | 20 |
| Barium, Total | 88.1 | 193 | 266 | 92 | | 264 | 92 | | 75-125 | 1 | 20 |
| Beryllium, Total | 0.439J | 4.84 | 4.36 | 90 | | 4.19 | 88 | | 75-125 | 4 | 20 |
| Cadmium, Total | 3.09 | 4.93 | 7.93 | 98 | | 7.43 | 89 | | 75-125 | 7 | 20 |
| Calcium, Total | 35700 | 967 | 5900 | **0** | Q | 6650 | **0** | Q | 75-125 | 12 | 20 |
| Chromium, Total | 11.1 | 19.3 | 29.6 | 96 | | 28.9 | 93 | | 75-125 | 2 | 20 |
| Cobalt, Total | 5.99 | 48.4 | 44.6 | 80 | | 43.4 | 78 | | 75-125 | 3 | 20 |
| Copper, Total | 320. | 24.2 | 395 | **310** | Q | 388 | **285** | Q | 75-125 | 2 | 20 |
| Iron, Total | 21300 | 96.7 | 24300 | **3100** | Q | 22800 | **1570** | Q | 75-125 | 6 | 20 |
| Lead, Total | 770. | 49.3 | 965 | **395** | Q | 1020 | **514** | Q | 75-125 | 6 | 20 |
| Magnesium, Total | 2360 | 967 | 2620 | **27** | Q | 2730 | **39** | Q | 75-125 | 4 | 20 |
| Manganese, Total | 344. | 48.4 | 360 | **33** | Q | 371 | **57** | Q | 75-125 | 3 | 20 |
| Nickel, Total | 16.1 | 48.4 | 56.6 | 84 | | 56.2 | 84 | | 75-125 | 1 | 20 |
| Potassium, Total | 320. | 967 | 1130 | 84 | | 1210 | 93 | | 75-125 | 7 | 20 |
| Selenium, Total | 1.39J | 11.6 | 10.3 | 89 | | 9.91 | 87 | | 75-125 | 4 | 20 |
| Silver, Total | ND | 29 | 26.4 | 91 | | 25.5 | 89 | | 75-125 | 3 | 20 |
| Sodium, Total | 70.2J | 967 | 957 | 99 | | 1020 | 107 | | 75-125 | 6 | 20 |
| Thallium, Total | ND | 11.6 | 8.26 | **71** | Q | 8.04 | **70** | Q | 75-125 | 3 | 20 |
| Vanadium, Total | 23.8 | 48.4 | 67.6 | 90 | | 68.5 | 94 | | 75-125 | 1 | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | | MSD Found | MSD %Recovery | | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01,03,06,08-09,12 QC Batch ID: WG1159014-3 WG1159014-4 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | | | | | | |
| Zinc, Total | 920. | 48.4 | 1180 | **537** | Q | 1150 | **483** | Q | 75-125 | 3 | 20 |

# INORGANICS
# &
# MISCELLANEOUS

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-01
Client ID: SB-10
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 12:31
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 82.6 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-02
Client ID: SB-11
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 12:21
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 74.0 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-03
Client ID: SB-12
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 12:39
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 78.4 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-04
Client ID: SB-13
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 12:47
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 74.0 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-05
Client ID: SB-14
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 16:28
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 74.4 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-06
Client ID: SB-15S
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 16:45
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 93.7 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-07
Client ID: SB-15D
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 16:38
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 67.4 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-08
Client ID: SB-16
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 16:53
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 78.3 | | % | 0.100 | NA | 1 | - | 09/18/18 04:59 | 121,2540G | FN |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-09
Client ID: SB-17S
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 17:25
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 82.1 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-10
Client ID: SB-17D
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 17:45
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 74.7 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-11
Client ID: SB-18
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 17:01
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 79.7 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1836228
**Report Date:** 09/21/18

## SAMPLE RESULTS

Lab ID: L1836228-12
Client ID: SB-19
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/11/18 17:10
Date Received: 09/12/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 84.2 | | % | 0.100 | NA | 1 | - | 09/13/18 14:04 | 121,2540G | AM |

# Lab Duplicate Analysis

***Batch Quality Control***

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

***Lab Number:*** L1836228

***Report Date:*** 09/21/18

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-07,09-12 QC Batch ID: WG1156603-1 QC Sample: L1836228-09 Client ID: SB-17S | | | | | | |
| Solids, Total | 82.1 | 83.0 | % | 1 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 08 QC Batch ID: WG1157972-1 QC Sample: L1836687-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 95.6 | 96.0 | % | 0 | | 20 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1836228-01A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-01B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-01C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8082(14) |
| L1836228-01D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-02A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-02B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-02C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-02D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-02E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-03A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-03B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-03C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8082(14) |
| L1836228-03D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-04A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-04B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-04C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-04D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-04E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |



*Values in parentheses indicate holding time in days

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1836228-05A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-05B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-05C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-05D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-05E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-06A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-06B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-06C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8082(14) |
| L1836228-06D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-07A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-07B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-07C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-07D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-07E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-08A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-08B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-08C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8082(14) |
| L1836228-08D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-09A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-09A1 | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-09A2 | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |



*Values in parentheses indicate holding time in days

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1836228-09B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-09B1 | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-09B2 | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-09C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(14) |
| L1836228-09D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(14) |
| L1836228-09E | Glass 250ml/8oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(14) |
| L1836228-09F | Glass 500ml/16oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(14) |
| L1836228-09G | Glass 500ml/16oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(14) |
| L1836228-10A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-10A1 | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-10A2 | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-10B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10B1 | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10B2 | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10C1 | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10C2 | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-10D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-10E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |



*Values in parentheses indicate holding time in days

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1836228
**Report Date:** 09/21/18

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1836228-11A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1836228-11B | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-11C | Vial water preserved | A | NA | | 4.3 | Y | Absent | 13-SEP-18 10:26 | NYTCL-8260HLW-R2(14) |
| L1836228-11D | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-11E | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-12A | Plastic 2oz unpreserved for TS | A | NA | | 4.3 | Y | Absent | | TS(7) |
| L1836228-12B | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1836228-12C | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8082(14) |
| L1836228-12D | Glass 120ml/4oz unpreserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8270(14) |
| L1836228-13A | Vial MeOH preserved | A | NA | | 4.3 | Y | Absent | | NYTCL-8260H-R2(14) |
| L1836228-13B | Vial water preserved | A | NA | | 4.3 | Y | Absent | **13-SEP-18 10:26** | NYTCL-8260H-R2(14) |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1836228 |
| **Project Number:** | 18-046 | **Report Date:** | 09/21/18 |

## GLOSSARY

### *Acronyms*

| | |
|---|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

### *Footnotes*

| | |
|---|---|
| 1 | - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method. |

### *Terms*

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1836228 |
| **Project Number:** | 18-046 | **Report Date:** | 09/21/18 |

***Data Qualifiers***

**A** - Spectra identified as "Aldol Condensation Product".

**B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

**E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

**H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**I** - The lower value for the two columns has been reported due to obvious interference.

**M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

**NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

**P** - The RPD between the results for the two columns exceeds the method-specified criteria.

**Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

**J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1836228 |
| **Project Number:** | 18-046 | **Report Date:** | 09/21/18 |

## REFERENCES


1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.


## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

# Certification Information

**The following analytes are not included in our Primary NELAP Scope of Accreditation:**

**Westborough Facility**
**EPA 624:** m/p-xylene, o-xylene
**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**EPA 300:** DW: Bromide
**EPA 6860:** SCM: Perchlorate
**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation
**SM4500**: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

**Mansfield Facility**
**SM 2540D:** TSS
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
**Biological Tissue Matrix:** EPA 3050B

**The following analytes are included in our Massachusetts DEP Scope of Accreditation**

**Westborough Facility:**

***Drinking Water***
**EPA 300.0**: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
**EPA 332**: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
**Microbiology**: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

***Non-Potable Water***
**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
**EPA 624**: Volatile Halocarbons & Aromatics,
**EPA 608**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
**EPA 625**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

**Mansfield Facility:**

***Drinking Water***
**EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
**EPA 522.**

***Non-Potable Water***
**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
**EPA 245.1** Hg.
**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL LABS

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 9/13/18

ALPHA Job #: L1836228

**Client Information**
Client: AECOM
Address: 6308 Fly Road, East Syracuse, NY 13057
Phone: (315) 432-9400
Fax: (315) 432-9405
Email: jsaxton@aecgroup.com

**Project Information**
Project Name: Rome-Turney
Project Location: 109 Canal St, Rome, NY
Project #: 18-0446
(Use Project name as Project #) ☐
Project Manager: James Saxton
ALPHAQuote #:

**Turn-Around Time**
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

**Deliverables**
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

**Regulatory Requirement**
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

**Billing Information**
☒ Same as Client Info
PO # cbeck@aecgroup.com

**Disposal Site Information**
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please also email to dbrantner@aecgroup.com

Please specify Metals or TAL.

**ANALYSIS**

**Sample Filtration**
☐ Done
☐ Lab to do
*Preservation*
☐ Lab to do
*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOCs (8260) | TCL SVOCs (8270) | PCBs (8082) | TAL Metals | Pesticides (8081) | Herbicides (8151) | Total Solids | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36228-01 | SB-10 | 9/11/18 | 1231 | SOIL | DB | | X | X | X | | | X | | 4 |
| -02 | SB-11 | 9/11/18 | 1221 | SOIL | DB | X | X | | | | | X | | 5 |
| -03 | SB-12 | 9/11/18 | 1239 | SOIL | DB | | X | X | X | | | X | | 4 |
| -04 | SB-13 | 9/11/18 | 1247 | SOIL | DB | X | X | | | | | X | | 5 |
| -05 | SB-14 | 9/11/18 | 1628 | SOIL | DB | X | X | | | | | X | | 5 |
| -06 | SB-15S | 9/11/18 | 1645 | SOIL | DB | | X | X | X | | | X | | 4 |
| -07 | SB-15D | 9/11/18 | 1638 | SOIL | DB | X | X | | | | | X | | 5 |
| -08 | SB-16 | 9/11/18 | 1653 | SOIL | DB | | X | X | X | | | X | | 4 |
| -09 | SB-17S / SB-17S MS / SB-17S MSD | 9/11/18 | 1725 | SOIL | DB | | X | X | X | X | X | X | | 11 |
| -10 | SB-17D / SB-17D MS / SB-17D MSD | 9/11/18 | 1745 | SOIL | DB | X | X | | | | | X | | 11 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Container Type | V | A | A | A | A | A | P | | |
| Preservative | F | A | A | A | A | A | A | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| | 9/12/18 1700 | | 9/12/18 1700 |
| | 9/13/18 1700 | 9/13/18 Nam | 9/13/18 1350 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA

# NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 9/13/18

ALPHA Job #: L1836225

**Client Information**
Client: AECC
Address: 6308 Fly Road
East Syracuse, NY 13057
Phone: (315) 432-9400
Fax: (315) 432-9405
Email: jsaxton@aecgroup.com

**Project Information**
Project Name: Rome-Turney
Project Location: 109 Canal St, Rome, NY
Project #: 18-046
(Use Project name as Project #) ☐
Project Manager: James Saxton
ALPHAQuote #:

**Turn-Around Time**
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

**Deliverables**
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

**Billing Information**
☐ Same as Client Info
PO #

**Regulatory Requirement**
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

**Disposal Site Information**
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please also email to dbrantner@aecgroup.com

Please specify Metals or TAL.

**ANALYSIS**

**Sample Filtration**
☐ Done
☐ Lab to do
*Preservation*
☐ Lab to do
*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOCs (8260) | TCL SVOCs (8270) | PCBs (8082) | TAL Metals | Total Solids | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30228-11 | SB-18 | 9/11/18 | 1701 | SOIL | DB | X | X | | | X | | 5 |
| -12 | SB-19 | 9/11/18 | 1710 | SOIL | DB | | X | X | X | X | | 4 |
| -13 | TRIP BLANK | - | - | - | - | X | | | | | | 2 |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Container Type | V | A | A | A | P | | | |
|---|---|---|---|---|---|---|---|---|
| Preservative | F | A | A | A | A | | | |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Drew Brantner | 9/12/18 1700 | AAL | |
| Mike Kozyeuski | 9/12/18 1700 | Mike Kozyeuski | 9/13/18 1700 |
| | | NAM | 9/13/18 1350 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

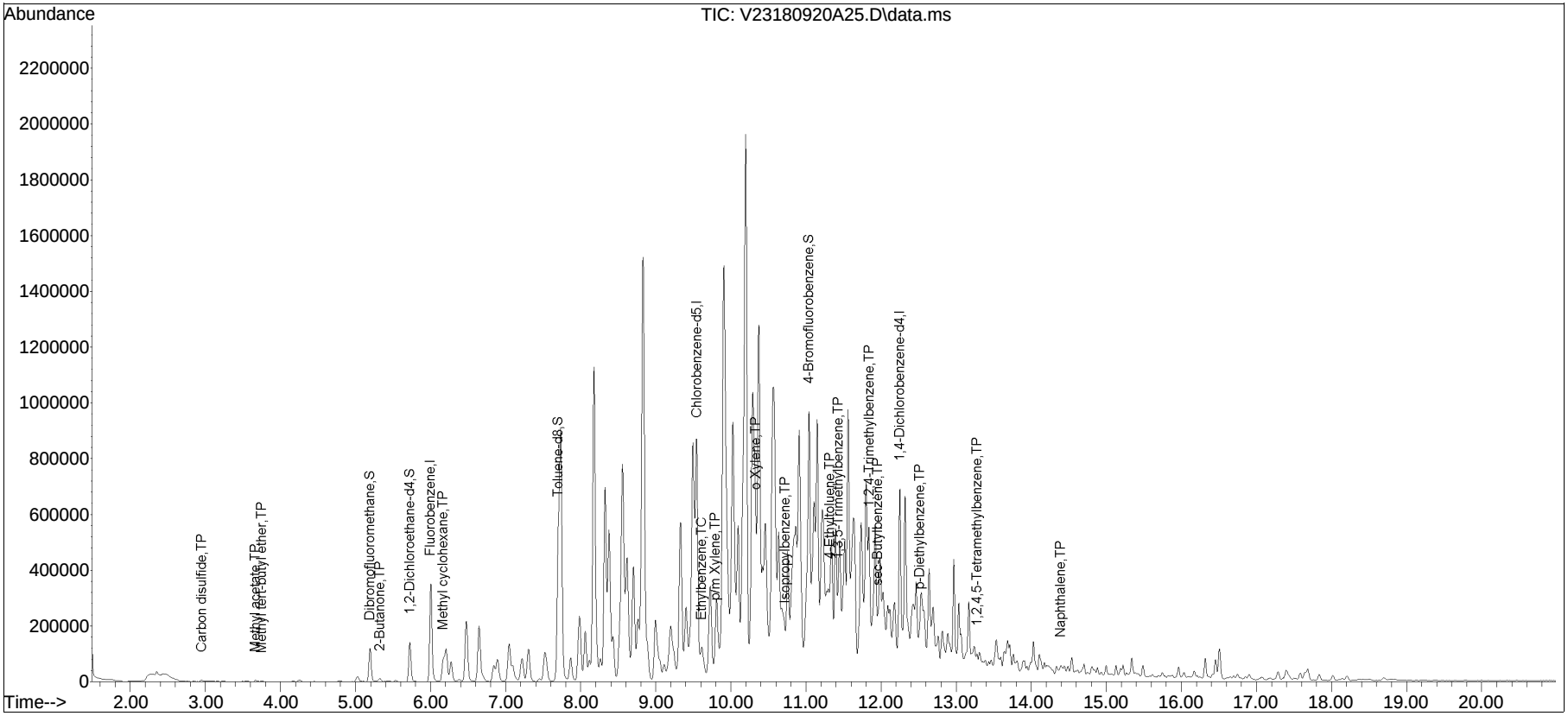
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2018\180920A\
Data File : V23180920A25.D
Acq On : 20 Sep 2018 05:35 pm
Operator : VOA123:AD
Sample : l1836228-04,31H,6.08,5,0.100,,a
Misc : WG1158942,ICAL14769
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 20 18:27:22 2018
Quant Method : I:\VOLATILES\VOA123\2018\180920A\V123_180606N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Jun 07 13:54:21 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox0A\V23180920A01.D•



# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1844375 |
| Client: | Asbestos & Environmental Consulting Corp<br>6308 Fly Road<br>East Syracuse, NY 13057 |
| ATTN: | Nevin Bradford |
| Phone: | (315) 432-9400 |
| Project Name: | ROME-TURNEY |
| Project Number: | 18-046 |
| Report Date: | 11/09/18 |



Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1844375-01 | SB-30 | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 09:28 | 10/30/18 |
| L1844375-02 | SB-31S | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 09:33 | 10/30/18 |
| L1844375-03 | SB-31D | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 09:45 | 10/30/18 |
| L1844375-04 | SB-32S | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 10:00 | 10/30/18 |
| L1844375-05 | SB-32D | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 10:20 | 10/30/18 |
| L1844375-06 | SB-33 | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 10:32 | 10/30/18 |
| L1844375-07 | SB-34 | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 11:00 | 10/30/18 |
| L1844375-08 | SB-35 | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 11:20 | 10/30/18 |
| L1844375-09 | SB-36 | SOIL | 109 CANAL ST., ROME, NY | 10/30/18 11:55 | 10/30/18 |
| L1844375-10 | TW-11 | WATER | 109 CANAL ST., ROME, NY | 10/30/18 14:36 | 10/30/18 |
| L1844375-11 | TRIP BLANK | WATER | 109 CANAL ST., ROME, NY | 10/30/18 00:00 | 10/30/18 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** ROME-TURNEY **Lab Number:** L1844375
**Project Number:** 18-046 **Report Date:** 11/09/18

**Case Narrative (continued)**

Report Submission
The analysis of TPH was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics
L1844375-03 and -09: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.
L1844375-10: The sample has elevated detection limits due to the dilution required by the sample matrix (oily).

Semivolatile Organics
L1844375-10: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.
The WG1175374-4/-5 MS/MSD recoveries, performed on L1844375-09, is below the acceptance criteria for 2,4-dinitrophenol (0%/0%), due to the concentration of this compound falling below the reported detection limit.

Semivolatile Organics by SIM
L1844375-10: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals
L1844375-01, -02, -04, -06, -08, and -09: The sample has elevated detection limits for all elements, with the

**Project Name:** ROME-TURNEY **Lab Number:** L1844375
**Project Number:** 18-046 **Report Date:** 11/09/18

**Case Narrative (continued)**

exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1174531-3 MS recoveries, performed on L1844375-01, are outside the acceptance criteria for lead (276%) and zinc (191%). A post digestion spike was performed and yielded unacceptable recoveries for lead (79%) and zinc (79%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.
The WG1174531-3 MS recoveries for aluminum (736%) and iron (2930%), performed on L1844375-01, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1174531-3 MS recoveries, performed on L1844375-01, are outside the acceptance criteria for calcium (0%), chromium (191%) and copper (140%). A post digestion spike was performed and was within acceptance criteria.
The WG1174531-4 Laboratory Duplicate RPDs for calcium (49%), chromium (102%), lead (71%), magnesium (63%) and zinc (28%), performed on L1844375-01, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/09/18

# ORGANICS

# VOLATILES

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03 D
Client ID: SB-31D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 09:45
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/07/18 04:00
Analyst: MV
Percent Solids: 67%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 4700 | 2100 | 10 |
| 1,1-Dichloroethane | ND | | ug/kg | 940 | 140 | 10 |
| Chloroform | ND | | ug/kg | 1400 | 130 | 10 |
| Carbon tetrachloride | ND | | ug/kg | 940 | 220 | 10 |
| 1,2-Dichloropropane | ND | | ug/kg | 940 | 120 | 10 |
| Dibromochloromethane | ND | | ug/kg | 940 | 130 | 10 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 940 | 250 | 10 |
| Tetrachloroethene | ND | | ug/kg | 470 | 180 | 10 |
| Chlorobenzene | ND | | ug/kg | 470 | 120 | 10 |
| Trichlorofluoromethane | ND | | ug/kg | 3700 | 650 | 10 |
| 1,2-Dichloroethane | ND | | ug/kg | 940 | 240 | 10 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 470 | 160 | 10 |
| Bromodichloromethane | ND | | ug/kg | 470 | 100 | 10 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 940 | 260 | 10 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 470 | 150 | 10 |
| Bromoform | ND | | ug/kg | 3700 | 230 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 470 | 160 | 10 |
| Benzene | ND | | ug/kg | 470 | 160 | 10 |
| Toluene | ND | | ug/kg | 940 | 510 | 10 |
| Ethylbenzene | 680 | J | ug/kg | 940 | 130 | 10 |
| Chloromethane | ND | | ug/kg | 3700 | 870 | 10 |
| Bromomethane | ND | | ug/kg | 1900 | 540 | 10 |
| Vinyl chloride | ND | | ug/kg | 940 | 310 | 10 |
| Chloroethane | ND | | ug/kg | 1900 | 420 | 10 |
| 1,1-Dichloroethene | ND | | ug/kg | 940 | 220 | 10 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1400 | 130 | 10 |
| Trichloroethene | ND | | ug/kg | 470 | 130 | 10 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 1900 | 130 | 10 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03 D Date Collected: 10/30/18 09:45

Client ID: SB-31D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 1900 | 140 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 1900 | 160 | 10 |
| Methyl tert butyl ether | ND | | ug/kg | 1900 | 190 | 10 |
| p/m-Xylene | ND | | ug/kg | 1900 | 520 | 10 |
| o-Xylene | ND | | ug/kg | 940 | 270 | 10 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 940 | 160 | 10 |
| Styrene | ND | | ug/kg | 940 | 180 | 10 |
| Dichlorodifluoromethane | ND | | ug/kg | 9400 | 860 | 10 |
| Acetone | ND | | ug/kg | 9400 | 4500 | 10 |
| Carbon disulfide | ND | | ug/kg | 9400 | 4200 | 10 |
| 2-Butanone | ND | | ug/kg | 9400 | 2100 | 10 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 9400 | 1200 | 10 |
| 2-Hexanone | ND | | ug/kg | 9400 | 1100 | 10 |
| Bromochloromethane | ND | | ug/kg | 1900 | 190 | 10 |
| 1,2-Dibromoethane | ND | | ug/kg | 940 | 260 | 10 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 2800 | 930 | 10 |
| Isopropylbenzene | 1500 | | ug/kg | 940 | 100 | 10 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 1900 | 300 | 10 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 1900 | 250 | 10 |
| Methyl Acetate | ND | | ug/kg | 3700 | 890 | 10 |
| Cyclohexane | 550 | J | ug/kg | 9400 | 510 | 10 |
| 1,4-Dioxane | ND | | ug/kg | 94000 | 33000 | 10 |
| Freon-113 | ND | | ug/kg | 3700 | 650 | 10 |
| Methyl cyclohexane | 3400 | J | ug/kg | 3700 | 560 | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 107 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05 Date Collected: 10/30/18 10:20

Client ID: SB-32D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 11/07/18 04:26

Analyst: MV

Percent Solids: 70%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 330 | 150 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 65 | 9.5 | 1 |
| Chloroform | ND | | ug/kg | 98 | 9.1 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 65 | 15. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 65 | 8.2 | 1 |
| Dibromochloromethane | ND | | ug/kg | 65 | 9.1 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 65 | 17. | 1 |
| Tetrachloroethene | ND | | ug/kg | 33 | 13. | 1 |
| Chlorobenzene | ND | | ug/kg | 33 | 8.3 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 260 | 45. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 65 | 17. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 33 | 11. | 1 |
| Bromodichloromethane | ND | | ug/kg | 33 | 7.1 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 65 | 18. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 33 | 10. | 1 |
| Bromoform | ND | | ug/kg | 260 | 16. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 33 | 11. | 1 |
| Benzene | ND | | ug/kg | 33 | 11. | 1 |
| Toluene | ND | | ug/kg | 65 | 35. | 1 |
| Ethylbenzene | ND | | ug/kg | 65 | 9.2 | 1 |
| Chloromethane | ND | | ug/kg | 260 | 61. | 1 |
| Bromomethane | ND | | ug/kg | 130 | 38. | 1 |
| Vinyl chloride | ND | | ug/kg | 65 | 22. | 1 |
| Chloroethane | ND | | ug/kg | 130 | 30. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 65 | 16. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 98 | 8.9 | 1 |
| Trichloroethene | ND | | ug/kg | 33 | 8.9 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 130 | 9.4 | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05 Date Collected: 10/30/18 10:20

Client ID: SB-32D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 130 | 9.7 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 130 | 11. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 130 | 13. | 1 |
| p/m-Xylene | ND | | ug/kg | 130 | 36. | 1 |
| o-Xylene | ND | | ug/kg | 65 | 19. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 65 | 11. | 1 |
| Styrene | ND | | ug/kg | 65 | 13. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 650 | 60. | 1 |
| Acetone | ND | | ug/kg | 650 | 310 | 1 |
| Carbon disulfide | ND | | ug/kg | 650 | 300 | 1 |
| 2-Butanone | ND | | ug/kg | 650 | 140 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 650 | 84. | 1 |
| 2-Hexanone | ND | | ug/kg | 650 | 77. | 1 |
| Bromochloromethane | ND | | ug/kg | 130 | 13. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 65 | 18. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 200 | 65. | 1 |
| Isopropylbenzene | 48 | J | ug/kg | 65 | 7.1 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 130 | 21. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 130 | 18. | 1 |
| Methyl Acetate | ND | | ug/kg | 260 | 62. | 1 |
| Cyclohexane | 50 | J | ug/kg | 650 | 36. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 6500 | 2300 | 1 |
| Freon-113 | ND | | ug/kg | 260 | 45. | 1 |
| Methyl cyclohexane | 830 | | ug/kg | 260 | 39. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 106 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 Date Collected: 10/30/18 11:00

Client ID: SB-34 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 11/08/18 07:58

Analyst: MV

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 260 | 120 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 51 | 7.4 | 1 |
| Chloroform | ND | | ug/kg | 77 | 7.2 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 51 | 12. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 51 | 6.4 | 1 |
| Dibromochloromethane | ND | | ug/kg | 51 | 7.2 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 51 | 14. | 1 |
| Tetrachloroethene | ND | | ug/kg | 26 | 10. | 1 |
| Chlorobenzene | ND | | ug/kg | 26 | 6.5 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 36. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 51 | 13. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 26 | 8.6 | 1 |
| Bromodichloromethane | ND | | ug/kg | 26 | 5.6 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 51 | 14. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 26 | 8.1 | 1 |
| Bromoform | ND | | ug/kg | 200 | 12. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 26 | 8.5 | 1 |
| Benzene | ND | | ug/kg | 26 | 8.5 | 1 |
| Toluene | ND | | ug/kg | 51 | 28. | 1 |
| Ethylbenzene | 98 | | ug/kg | 51 | 7.2 | 1 |
| Chloromethane | ND | | ug/kg | 200 | 48. | 1 |
| Bromomethane | 35 | J | ug/kg | 100 | 30. | 1 |
| Vinyl chloride | ND | | ug/kg | 51 | 17. | 1 |
| Chloroethane | ND | | ug/kg | 100 | 23. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 51 | 12. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 77 | 7.0 | 1 |
| Trichloroethene | ND | | ug/kg | 26 | 7.0 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 Date Collected: 10/30/18 11:00

Client ID: SB-34 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.6 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.8 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. | 1 |
| p/m-Xylene | 1400 | | ug/kg | 100 | 29. | 1 |
| o-Xylene | ND | | ug/kg | 51 | 15. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 51 | 9.0 | 1 |
| Styrene | ND | | ug/kg | 51 | 10. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 510 | 47. | 1 |
| Acetone | ND | | ug/kg | 510 | 250 | 1 |
| Carbon disulfide | ND | | ug/kg | 510 | 230 | 1 |
| 2-Butanone | ND | | ug/kg | 510 | 110 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 510 | 66. | 1 |
| 2-Hexanone | ND | | ug/kg | 510 | 60. | 1 |
| Bromochloromethane | ND | | ug/kg | 100 | 10. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 51 | 14. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 51. | 1 |
| Isopropylbenzene | 250 | | ug/kg | 51 | 5.6 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. | 1 |
| Methyl Acetate | ND | | ug/kg | 200 | 49. | 1 |
| Cyclohexane | 1700 | | ug/kg | 510 | 28. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 5100 | 1800 | 1 |
| Freon-113 | ND | | ug/kg | 200 | 35. | 1 |
| Methyl cyclohexane | 10000 | | ug/kg | 200 | 31. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 120 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09 D
Client ID: SB-36
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 11:55
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/07/18 15:55
Analyst: KJD
Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 10000 | 4600 | 20 |
| 1,1-Dichloroethane | ND | | ug/kg | 2000 | 290 | 20 |
| Chloroform | ND | | ug/kg | 3000 | 280 | 20 |
| Carbon tetrachloride | ND | | ug/kg | 2000 | 460 | 20 |
| 1,2-Dichloropropane | ND | | ug/kg | 2000 | 250 | 20 |
| Dibromochloromethane | ND | | ug/kg | 2000 | 280 | 20 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 2000 | 530 | 20 |
| Tetrachloroethene | ND | | ug/kg | 1000 | 390 | 20 |
| Chlorobenzene | ND | | ug/kg | 1000 | 250 | 20 |
| Trichlorofluoromethane | ND | | ug/kg | 8000 | 1400 | 20 |
| 1,2-Dichloroethane | ND | | ug/kg | 2000 | 510 | 20 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 1000 | 330 | 20 |
| Bromodichloromethane | ND | | ug/kg | 1000 | 220 | 20 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 2000 | 540 | 20 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 1000 | 320 | 20 |
| Bromoform | ND | | ug/kg | 8000 | 490 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 1000 | 330 | 20 |
| Benzene | ND | | ug/kg | 1000 | 330 | 20 |
| Toluene | ND | | ug/kg | 2000 | 1100 | 20 |
| Ethylbenzene | 400 | J | ug/kg | 2000 | 280 | 20 |
| Chloromethane | ND | | ug/kg | 8000 | 1900 | 20 |
| Bromomethane | ND | | ug/kg | 4000 | 1200 | 20 |
| Vinyl chloride | ND | | ug/kg | 2000 | 670 | 20 |
| Chloroethane | ND | | ug/kg | 4000 | 900 | 20 |
| 1,1-Dichloroethene | ND | | ug/kg | 2000 | 480 | 20 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 3000 | 270 | 20 |
| Trichloroethene | ND | | ug/kg | 1000 | 270 | 20 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 4000 | 290 | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09 D Date Collected: 10/30/18 11:55

Client ID: SB-36 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 4000 | 300 | 20 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 4000 | 340 | 20 |
| Methyl tert butyl ether | ND | | ug/kg | 4000 | 400 | 20 |
| p/m-Xylene | 2500 | J | ug/kg | 4000 | 1100 | 20 |
| o-Xylene | 2000 | | ug/kg | 2000 | 580 | 20 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 2000 | 350 | 20 |
| Styrene | ND | | ug/kg | 2000 | 390 | 20 |
| Dichlorodifluoromethane | ND | | ug/kg | 20000 | 1800 | 20 |
| Acetone | ND | | ug/kg | 20000 | 9600 | 20 |
| Carbon disulfide | ND | | ug/kg | 20000 | 9100 | 20 |
| 2-Butanone | ND | | ug/kg | 20000 | 4400 | 20 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 20000 | 2600 | 20 |
| 2-Hexanone | ND | | ug/kg | 20000 | 2400 | 20 |
| Bromochloromethane | ND | | ug/kg | 4000 | 410 | 20 |
| 1,2-Dibromoethane | ND | | ug/kg | 2000 | 560 | 20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 6000 | 2000 | 20 |
| Isopropylbenzene | 220 | J | ug/kg | 2000 | 220 | 20 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 4000 | 640 | 20 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 4000 | 540 | 20 |
| Methyl Acetate | ND | | ug/kg | 8000 | 1900 | 20 |
| Cyclohexane | ND | | ug/kg | 20000 | 1100 | 20 |
| 1,4-Dioxane | ND | | ug/kg | 200000 | 70000 | 20 |
| Freon-113 | ND | | ug/kg | 8000 | 1400 | 20 |
| Methyl cyclohexane | ND | | ug/kg | 8000 | 1200 | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D
Client ID: TW-11
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 14:36
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/18 04:48
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 100 | 28. | 40 |
| 1,1-Dichloroethane | ND | | ug/l | 100 | 28. | 40 |
| Chloroform | ND | | ug/l | 100 | 28. | 40 |
| Carbon tetrachloride | ND | | ug/l | 20 | 5.4 | 40 |
| 1,2-Dichloropropane | ND | | ug/l | 40 | 5.5 | 40 |
| Dibromochloromethane | ND | | ug/l | 20 | 6.0 | 40 |
| 1,1,2-Trichloroethane | ND | | ug/l | 60 | 20. | 40 |
| Tetrachloroethene | ND | | ug/l | 20 | 7.2 | 40 |
| Chlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| Trichlorofluoromethane | ND | | ug/l | 100 | 28. | 40 |
| 1,2-Dichloroethane | ND | | ug/l | 20 | 5.3 | 40 |
| 1,1,1-Trichloroethane | ND | | ug/l | 100 | 28. | 40 |
| Bromodichloromethane | ND | | ug/l | 20 | 7.7 | 40 |
| trans-1,3-Dichloropropene | ND | | ug/l | 20 | 6.6 | 40 |
| cis-1,3-Dichloropropene | ND | | ug/l | 20 | 5.8 | 40 |
| Bromoform | ND | | ug/l | 80 | 26. | 40 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 20 | 6.7 | 40 |
| Benzene | ND | | ug/l | 20 | 6.4 | 40 |
| Toluene | ND | | ug/l | 100 | 28. | 40 |
| Ethylbenzene | ND | | ug/l | 100 | 28. | 40 |
| Chloromethane | ND | | ug/l | 100 | 28. | 40 |
| Bromomethane | ND | | ug/l | 100 | 28. | 40 |
| Vinyl chloride | ND | | ug/l | 40 | 2.8 | 40 |
| Chloroethane | ND | | ug/l | 100 | 28. | 40 |
| 1,1-Dichloroethene | ND | | ug/l | 20 | 6.8 | 40 |
| trans-1,2-Dichloroethene | ND | | ug/l | 100 | 28. | 40 |
| Trichloroethene | ND | | ug/l | 20 | 7.0 | 40 |
| 1,2-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D Date Collected: 10/30/18 14:36

Client ID: TW-11 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,4-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| Methyl tert butyl ether | ND | | ug/l | 100 | 28. | 40 |
| p/m-Xylene | 120 | | ug/l | 100 | 28. | 40 |
| o-Xylene | ND | | ug/l | 100 | 28. | 40 |
| cis-1,2-Dichloroethene | ND | | ug/l | 100 | 28. | 40 |
| Styrene | ND | | ug/l | 100 | 28. | 40 |
| Dichlorodifluoromethane | ND | | ug/l | 200 | 40. | 40 |
| Acetone | ND | | ug/l | 200 | 58. | 40 |
| Carbon disulfide | ND | | ug/l | 200 | 40. | 40 |
| 2-Butanone | ND | | ug/l | 200 | 78. | 40 |
| 4-Methyl-2-pentanone | ND | | ug/l | 200 | 40. | 40 |
| 2-Hexanone | ND | | ug/l | 200 | 40. | 40 |
| Bromochloromethane | ND | | ug/l | 100 | 28. | 40 |
| 1,2-Dibromoethane | ND | | ug/l | 80 | 26. | 40 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 100 | 28. | 40 |
| Isopropylbenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| Methyl Acetate | ND | | ug/l | 80 | 9.4 | 40 |
| Cyclohexane | 31 | J | ug/l | 400 | 11. | 40 |
| 1,4-Dioxane | ND | | ug/l | 10000 | 2400 | 40 |
| Freon-113 | ND | | ug/l | 100 | 28. | 40 |
| Methyl cyclohexane | 100 | J | ug/l | 400 | 16. | 40 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 115 | | 70-130 |
| Toluene-d8 | 106 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-11 Date Collected: 10/30/18 00:00
Client ID: TRIP BLANK Date Received: 10/30/18
Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/18 20:37
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-11 Date Collected: 10/30/18 00:00

Client ID: TRIP BLANK Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 108 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 70-130 |
| Dibromofluoromethane | 94 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 21:03
Analyst: AD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,05 Batch: WG1176834-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | 35 | J | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 21:03
Analyst: AD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,05 Batch: WG1176834-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 21:03
Analyst: AD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,05 Batch: WG1176834-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 20:11
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1176982-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 20:11
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1176982-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/18 20:11
Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1176982-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 108 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 70-130 |
| Dibromofluoromethane | 95 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 08:04
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 09 Batch: WG1177059-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | 40 | J | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 08:04
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 09 Batch: WG1177059-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 08:04
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 09 Batch: WG1177059-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/18 07:32
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1177313-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | 43 | J | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/18 07:32
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1177313-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 5000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/18 07:32
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1177313-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 89 | | 70-130 |
| Dibromofluoromethane | 115 | | 70-130 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 21:12
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1177401-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 21:12
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1177401-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/07/18 21:12
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1177401-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 107 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 70-130 |
| Dibromofluoromethane | 94 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,05 Batch: WG1176834-3 WG1176834-4 | | | | | | | | |
| Methylene chloride | 90 | | 92 | | 70-130 | 2 | | 30 |
| 1,1-Dichloroethane | 99 | | 99 | | 70-130 | 0 | | 30 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 30 |
| Carbon tetrachloride | 99 | | 100 | | 70-130 | 1 | | 30 |
| 1,2-Dichloropropane | 98 | | 99 | | 70-130 | 1 | | 30 |
| Dibromochloromethane | 96 | | 99 | | 70-130 | 3 | | 30 |
| 1,1,2-Trichloroethane | 96 | | 99 | | 70-130 | 3 | | 30 |
| Tetrachloroethene | 103 | | 104 | | 70-130 | 1 | | 30 |
| Chlorobenzene | 98 | | 100 | | 70-130 | 2 | | 30 |
| Trichlorofluoromethane | 104 | | 102 | | 70-139 | 2 | | 30 |
| 1,2-Dichloroethane | 96 | | 99 | | 70-130 | 3 | | 30 |
| 1,1,1-Trichloroethane | 102 | | 102 | | 70-130 | 0 | | 30 |
| Bromodichloromethane | 99 | | 100 | | 70-130 | 1 | | 30 |
| trans-1,3-Dichloropropene | 94 | | 97 | | 70-130 | 3 | | 30 |
| cis-1,3-Dichloropropene | 100 | | 101 | | 70-130 | 1 | | 30 |
| Bromoform | 93 | | 96 | | 70-130 | 3 | | 30 |
| 1,1,2,2-Tetrachloroethane | 95 | | 100 | | 70-130 | 5 | | 30 |
| Benzene | 101 | | 101 | | 70-130 | 0 | | 30 |
| Toluene | 97 | | 97 | | 70-130 | 0 | | 30 |
| Ethylbenzene | 97 | | 97 | | 70-130 | 0 | | 30 |
| Chloromethane | 81 | | 81 | | 52-130 | 0 | | 30 |
| Bromomethane | **159** | Q | **158** | Q | 57-147 | 1 | | 30 |
| Vinyl chloride | 101 | | 101 | | 67-130 | 0 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,05 Batch: WG1176834-3 WG1176834-4 | | | | | | | | |
| Chloroethane | 102 | | 102 | | 50-151 | 0 | | 30 |
| 1,1-Dichloroethene | 101 | | 101 | | 65-135 | 0 | | 30 |
| trans-1,2-Dichloroethene | 102 | | 102 | | 70-130 | 0 | | 30 |
| Trichloroethene | 102 | | 102 | | 70-130 | 0 | | 30 |
| 1,2-Dichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 30 |
| 1,3-Dichlorobenzene | 98 | | 99 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 93 | | 97 | | 66-130 | 4 | | 30 |
| p/m-Xylene | 99 | | 99 | | 70-130 | 0 | | 30 |
| o-Xylene | 98 | | 99 | | 70-130 | 1 | | 30 |
| cis-1,2-Dichloroethene | 101 | | 102 | | 70-130 | 1 | | 30 |
| Styrene | 96 | | 97 | | 70-130 | 1 | | 30 |
| Dichlorodifluoromethane | 116 | | 116 | | 30-146 | 0 | | 30 |
| Acetone | 73 | | 82 | | 54-140 | 12 | | 30 |
| Carbon disulfide | 92 | | 93 | | 59-130 | 1 | | 30 |
| 2-Butanone | **66** | Q | 74 | | 70-130 | 11 | | 30 |
| 4-Methyl-2-pentanone | 89 | | 97 | | 70-130 | 9 | | 30 |
| 2-Hexanone | 75 | | 82 | | 70-130 | 9 | | 30 |
| Bromochloromethane | 103 | | 105 | | 70-130 | 2 | | 30 |
| 1,2-Dibromoethane | 96 | | 102 | | 70-130 | 6 | | 30 |
| 1,2-Dibromo-3-chloropropane | 87 | | 93 | | 68-130 | 7 | | 30 |
| Isopropylbenzene | 99 | | 98 | | 70-130 | 1 | | 30 |
| 1,2,3-Trichlorobenzene | 98 | | 101 | | 70-130 | 3 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,05 Batch: WG1176834-3 WG1176834-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 101 | | 103 | | 70-130 | 2 | | 30 |
| Methyl Acetate | 76 | | 82 | | 51-146 | 8 | | 30 |
| Cyclohexane | 99 | | 99 | | 59-142 | 0 | | 30 |
| 1,4-Dioxane | 98 | | 100 | | 65-136 | 2 | | 30 |
| Freon-113 | 106 | | 105 | | 50-139 | 1 | | 30 |
| Methyl cyclohexane | 101 | | 100 | | 70-130 | 1 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | | 97 | | 70-130 |
| Toluene-d8 | 99 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 97 | | 70-130 |
| Dibromofluoromethane | 102 | | 103 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1176982-3 WG1176982-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 110 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 100 | | 100 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 96 | | 95 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 93 | | 97 | | 70-130 | 4 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromoform | 90 | | 90 | | 54-136 | 0 | | 20 |
| 1,1,2,2-Tetrachloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Benzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | 110 | | 120 | | 64-130 | 9 | | 20 |
| Bromomethane | 68 | | 80 | | 39-139 | 16 | | 20 |
| Vinyl chloride | 120 | | 120 | | 55-140 | 0 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1176982-3 WG1176982-4 | | | | | | | | |
| Chloroethane | 120 | | 110 | | 55-138 | 9 | | 20 |
| 1,1-Dichloroethene | 95 | | 100 | | 61-145 | 5 | | 20 |
| trans-1,2-Dichloroethene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Trichloroethene | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,2-Dichlorobenzene | 98 | | 99 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,4-Dichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 100 | | 100 | | 63-130 | 0 | | 20 |
| p/m-Xylene | 100 | | 105 | | 70-130 | 5 | | 20 |
| o-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Styrene | 100 | | 105 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 100 | | 100 | | 36-147 | 0 | | 20 |
| Acetone | 120 | | 110 | | 58-148 | 9 | | 20 |
| Carbon disulfide | 99 | | 100 | | 51-130 | 1 | | 20 |
| 2-Butanone | 120 | | 110 | | 63-138 | 9 | | 20 |
| 4-Methyl-2-pentanone | 110 | | 110 | | 59-130 | 0 | | 20 |
| 2-Hexanone | 110 | | 100 | | 57-130 | 10 | | 20 |
| Bromochloromethane | 90 | | 92 | | 70-130 | 2 | | 20 |
| 1,2-Dibromoethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 90 | | 85 | | 41-144 | 6 | | 20 |
| Isopropylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 96 | | 98 | | 70-130 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1176982-3 WG1176982-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 95 | | 95 | | 70-130 | 0 | | 20 |
| Methyl Acetate | 120 | | 110 | | 70-130 | 9 | | 20 |
| Cyclohexane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 78 | | 72 | | 56-162 | 8 | | 20 |
| Freon-113 | 99 | | 100 | | 70-130 | 1 | | 20 |
| Methyl cyclohexane | 100 | | 100 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | | 111 | | 70-130 |
| Toluene-d8 | 105 | | 104 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 105 | | 70-130 |
| Dibromofluoromethane | 99 | | 98 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 09 Batch: WG1177059-3 WG1177059-4 | | | | | | | | |
| Methylene chloride | 92 | | 92 | | 70-130 | 0 | | 30 |
| 1,1-Dichloroethane | 98 | | 95 | | 70-130 | 3 | | 30 |
| Chloroform | 100 | | 98 | | 70-130 | 2 | | 30 |
| Carbon tetrachloride | 100 | | 98 | | 70-130 | 2 | | 30 |
| 1,2-Dichloropropane | 99 | | 98 | | 70-130 | 1 | | 30 |
| Dibromochloromethane | 98 | | 97 | | 70-130 | 1 | | 30 |
| 1,1,2-Trichloroethane | 98 | | 97 | | 70-130 | 1 | | 30 |
| Tetrachloroethene | 102 | | 99 | | 70-130 | 3 | | 30 |
| Chlorobenzene | 99 | | 97 | | 70-130 | 2 | | 30 |
| Trichlorofluoromethane | 101 | | 98 | | 70-139 | 3 | | 30 |
| 1,2-Dichloroethane | 101 | | 101 | | 70-130 | 0 | | 30 |
| 1,1,1-Trichloroethane | 103 | | 100 | | 70-130 | 3 | | 30 |
| Bromodichloromethane | 99 | | 99 | | 70-130 | 0 | | 30 |
| trans-1,3-Dichloropropene | 98 | | 96 | | 70-130 | 2 | | 30 |
| cis-1,3-Dichloropropene | 103 | | 102 | | 70-130 | 1 | | 30 |
| Bromoform | 96 | | 96 | | 70-130 | 0 | | 30 |
| 1,1,2,2-Tetrachloroethane | 96 | | 98 | | 70-130 | 2 | | 30 |
| Benzene | 99 | | 97 | | 70-130 | 2 | | 30 |
| Toluene | 97 | | 94 | | 70-130 | 3 | | 30 |
| Ethylbenzene | 96 | | 93 | | 70-130 | 3 | | 30 |
| Chloromethane | 77 | | 74 | | 52-130 | 4 | | 30 |
| Bromomethane | **148** | Q | 145 | | 57-147 | 2 | | 30 |
| Vinyl chloride | 96 | | 93 | | 67-130 | 3 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 09 Batch: WG1177059-3 WG1177059-4 | | | | | | | | |
| Chloroethane | 93 | | 91 | | 50-151 | 2 | | 30 |
| 1,1-Dichloroethene | 100 | | 98 | | 65-135 | 2 | | 30 |
| trans-1,2-Dichloroethene | 101 | | 100 | | 70-130 | 1 | | 30 |
| Trichloroethene | 102 | | 97 | | 70-130 | 5 | | 30 |
| 1,2-Dichlorobenzene | 98 | | 98 | | 70-130 | 0 | | 30 |
| 1,3-Dichlorobenzene | 98 | | 96 | | 70-130 | 2 | | 30 |
| 1,4-Dichlorobenzene | 97 | | 99 | | 70-130 | 2 | | 30 |
| Methyl tert butyl ether | 98 | | 99 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 98 | | 96 | | 70-130 | 2 | | 30 |
| o-Xylene | 100 | | 97 | | 70-130 | 3 | | 30 |
| cis-1,2-Dichloroethene | 100 | | 98 | | 70-130 | 2 | | 30 |
| Styrene | 98 | | 96 | | 70-130 | 2 | | 30 |
| Dichlorodifluoromethane | 114 | | 108 | | 30-146 | 5 | | 30 |
| Acetone | 76 | | 82 | | 54-140 | 8 | | 30 |
| Carbon disulfide | 92 | | 89 | | 59-130 | 3 | | 30 |
| 2-Butanone | 80 | | 79 | | 70-130 | 1 | | 30 |
| 4-Methyl-2-pentanone | 94 | | 94 | | 70-130 | 0 | | 30 |
| 2-Hexanone | 81 | | 82 | | 70-130 | 1 | | 30 |
| Bromochloromethane | 103 | | 104 | | 70-130 | 1 | | 30 |
| 1,2-Dibromoethane | 100 | | 100 | | 70-130 | 0 | | 30 |
| 1,2-Dibromo-3-chloropropane | 92 | | 93 | | 68-130 | 1 | | 30 |
| Isopropylbenzene | 97 | | 96 | | 70-130 | 1 | | 30 |
| 1,2,3-Trichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 09 Batch: WG1177059-3 WG1177059-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 30 |
| Methyl Acetate | 83 | | 85 | | 51-146 | 2 | | 30 |
| Cyclohexane | 98 | | 95 | | 59-142 | 3 | | 30 |
| 1,4-Dioxane | 102 | | 106 | | 65-136 | 4 | | 30 |
| Freon-113 | 106 | | 103 | | 50-139 | 3 | | 30 |
| Methyl cyclohexane | 102 | | 97 | | 70-130 | 5 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | | 101 | | 70-130 |
| Toluene-d8 | 99 | | 98 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 99 | | 70-130 |
| Dibromofluoromethane | 102 | | 103 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1177313-3 WG1177313-4 | | | | | | | | |
| Methylene chloride | 88 | | 90 | | 70-130 | 2 | | 30 |
| 1,1-Dichloroethane | 87 | | 97 | | 70-130 | 11 | | 30 |
| Chloroform | 88 | | 97 | | 70-130 | 10 | | 30 |
| Carbon tetrachloride | 97 | | 96 | | 70-130 | 1 | | 30 |
| 1,2-Dichloropropane | 100 | | 97 | | 70-130 | 3 | | 30 |
| Dibromochloromethane | 95 | | 93 | | 70-130 | 2 | | 30 |
| 1,1,2-Trichloroethane | 96 | | 97 | | 70-130 | 1 | | 30 |
| Tetrachloroethene | 92 | | 91 | | 70-130 | 1 | | 30 |
| Chlorobenzene | 93 | | 92 | | 70-130 | 1 | | 30 |
| Trichlorofluoromethane | 100 | | 96 | | 70-139 | 4 | | 30 |
| 1,2-Dichloroethane | 103 | | 102 | | 70-130 | 1 | | 30 |
| 1,1,1-Trichloroethane | 98 | | 99 | | 70-130 | 1 | | 30 |
| Bromodichloromethane | 98 | | 98 | | 70-130 | 0 | | 30 |
| trans-1,3-Dichloropropene | 98 | | 99 | | 70-130 | 1 | | 30 |
| cis-1,3-Dichloropropene | 101 | | 99 | | 70-130 | 2 | | 30 |
| Bromoform | 93 | | 90 | | 70-130 | 3 | | 30 |
| 1,1,2,2-Tetrachloroethane | 100 | | 105 | | 70-130 | 5 | | 30 |
| Benzene | 94 | | 94 | | 70-130 | 0 | | 30 |
| Toluene | 93 | | 93 | | 70-130 | 0 | | 30 |
| Ethylbenzene | 93 | | 92 | | 70-130 | 1 | | 30 |
| Chloromethane | 84 | | 81 | | 52-130 | 4 | | 30 |
| Bromomethane | 141 | | **148** | Q | 57-147 | 5 | | 30 |
| Vinyl chloride | 94 | | 95 | | 67-130 | 1 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1177313-3 WG1177313-4 | | | | | | | | |
| Chloroethane | 92 | | 91 | | 50-151 | 1 | | 30 |
| 1,1-Dichloroethene | 87 | | 96 | | 65-135 | 10 | | 30 |
| trans-1,2-Dichloroethene | 85 | | 95 | | 70-130 | 11 | | 30 |
| Trichloroethene | 95 | | 95 | | 70-130 | 0 | | 30 |
| 1,2-Dichlorobenzene | 93 | | 98 | | 70-130 | 5 | | 30 |
| 1,3-Dichlorobenzene | 93 | | 95 | | 70-130 | 2 | | 30 |
| 1,4-Dichlorobenzene | 94 | | 93 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 89 | | 98 | | 66-130 | 10 | | 30 |
| p/m-Xylene | 92 | | 92 | | 70-130 | 0 | | 30 |
| o-Xylene | 93 | | 91 | | 70-130 | 2 | | 30 |
| cis-1,2-Dichloroethene | 76 | | 93 | | 70-130 | 20 | | 30 |
| Styrene | 93 | | 90 | | 70-130 | 3 | | 30 |
| Dichlorodifluoromethane | 99 | | 112 | | 30-146 | 12 | | 30 |
| Acetone | 101 | | 95 | | 54-140 | 6 | | 30 |
| Carbon disulfide | 86 | | 89 | | 59-130 | 3 | | 30 |
| 2-Butanone | 82 | | 88 | | 70-130 | 7 | | 30 |
| 4-Methyl-2-pentanone | 99 | | 102 | | 70-130 | 3 | | 30 |
| 2-Hexanone | 94 | | 97 | | 70-130 | 3 | | 30 |
| Bromochloromethane | 76 | | 97 | | 70-130 | 24 | | 30 |
| 1,2-Dibromoethane | 97 | | 97 | | 70-130 | 0 | | 30 |
| 1,2-Dibromo-3-chloropropane | 88 | | 87 | | 68-130 | 1 | | 30 |
| Isopropylbenzene | 96 | | 97 | | 70-130 | 1 | | 30 |
| 1,2,3-Trichlorobenzene | 92 | | 73 | | 70-130 | 23 | | 30 |

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**Project Name:** ROME-TURNEY

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**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1177313-3 WG1177313-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 93 | | 93 | | 70-130 | 0 | | 30 |
| Methyl Acetate | 94 | | 95 | | 51-146 | 1 | | 30 |
| Cyclohexane | 92 | | 100 | | 59-142 | 8 | | 30 |
| 1,4-Dioxane | 106 | | 107 | | 65-136 | 1 | | 30 |
| Freon-113 | 95 | | 101 | | 50-139 | 6 | | 30 |
| Methyl cyclohexane | 97 | | 95 | | 70-130 | 2 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 104 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 106 | | 70-130 |
| Dibromofluoromethane | 102 | | 103 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1177401-3 WG1177401-4 | | | | | | | | |
| Methylene chloride | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethane | 110 | | 120 | | 70-130 | 9 | | 20 |
| Chloroform | 100 | | 110 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 98 | | 100 | | 63-132 | 2 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 89 | | 95 | | 63-130 | 7 | | 20 |
| 1,1,2-Trichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Tetrachloroethene | 91 | | 97 | | 70-130 | 6 | | 20 |
| Chlorobenzene | 96 | | 100 | | 75-130 | 4 | | 20 |
| Trichlorofluoromethane | 100 | | 110 | | 62-150 | 10 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 98 | | 100 | | 67-130 | 2 | | 20 |
| Bromodichloromethane | 98 | | 100 | | 67-130 | 2 | | 20 |
| trans-1,3-Dichloropropene | 100 | | 110 | | 70-130 | 10 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromoform | 80 | | 89 | | 54-136 | 11 | | 20 |
| 1,1,2,2-Tetrachloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Benzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| Chloromethane | 110 | | 120 | | 64-130 | 9 | | 20 |
| Bromomethane | 59 | | 82 | | 39-139 | **33** | Q | 20 |
| Vinyl chloride | 110 | | 120 | | 55-140 | 9 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1177401-3 WG1177401-4 | | | | | | | | |
| Chloroethane | 97 | | 110 | | 55-138 | 13 | | 20 |
| 1,1-Dichloroethene | 93 | | 100 | | 61-145 | 7 | | 20 |
| trans-1,2-Dichloroethene | 93 | | 100 | | 70-130 | 7 | | 20 |
| Trichloroethene | 95 | | 100 | | 70-130 | 5 | | 20 |
| 1,2-Dichlorobenzene | 93 | | 99 | | 70-130 | 6 | | 20 |
| 1,3-Dichlorobenzene | 94 | | 99 | | 70-130 | 5 | | 20 |
| 1,4-Dichlorobenzene | 94 | | 100 | | 70-130 | 6 | | 20 |
| Methyl tert butyl ether | 95 | | 100 | | 63-130 | 5 | | 20 |
| p/m-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 93 | | 100 | | 70-130 | 7 | | 20 |
| Styrene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 100 | | 110 | | 36-147 | 10 | | 20 |
| Acetone | 93 | | 99 | | 58-148 | 6 | | 20 |
| Carbon disulfide | 94 | | 100 | | 51-130 | 6 | | 20 |
| 2-Butanone | 94 | | 110 | | 63-138 | 16 | | 20 |
| 4-Methyl-2-pentanone | 94 | | 100 | | 59-130 | 6 | | 20 |
| 2-Hexanone | 92 | | 100 | | 57-130 | 8 | | 20 |
| Bromochloromethane | 90 | | 94 | | 70-130 | 4 | | 20 |
| 1,2-Dibromoethane | 95 | | 99 | | 70-130 | 4 | | 20 |
| 1,2-Dibromo-3-chloropropane | 72 | | 80 | | 41-144 | 11 | | 20 |
| Isopropylbenzene | 99 | | 110 | | 70-130 | 11 | | 20 |
| 1,2,3-Trichlorobenzene | 86 | | 93 | | 70-130 | 8 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1177401-3 WG1177401-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 87 | | 94 | | 70-130 | 8 | | 20 |
| Methyl Acetate | 100 | | 110 | | 70-130 | 10 | | 20 |
| Cyclohexane | 110 | | 120 | | 70-130 | 9 | | 20 |
| 1,4-Dioxane | **19** | Q | **22** | Q | 56-162 | 15 | | 20 |
| Freon-113 | 99 | | 100 | | 70-130 | 1 | | 20 |
| Methyl cyclohexane | 99 | | 110 | | 70-130 | 11 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 115 | | 111 | | 70-130 |
| Toluene-d8 | 106 | | 106 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 107 | | 70-130 |
| Dibromofluoromethane | 98 | | 99 | | 70-130 |

# SEMIVOLATILES

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03
Client ID: SB-31D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 09:45
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 01:22
Analyst: RC
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 11/03/18 08:14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 2100 | | ug/kg | 200 | 25. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 150 | 27. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 220 | 33. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 240 | 24. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 240 | 65. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 240 | 49. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 240 | 42. | 1 |
| Fluoranthene | 340 | | ug/kg | 150 | 28. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 240 | 26. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 240 | 37. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 290 | 42. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 260 | 24. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 240 | 36. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 700 | 220 | 1 |
| Hexachloroethane | ND | | ug/kg | 200 | 40. | 1 |
| Isophorone | ND | | ug/kg | 220 | 32. | 1 |
| Naphthalene | 12000 | E | ug/kg | 240 | 30. | 1 |
| Nitrobenzene | ND | | ug/kg | 220 | 36. | 1 |
| NDPA/DPA | ND | | ug/kg | 200 | 28. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 240 | 38. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 240 | 85. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 240 | 62. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 240 | 46. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 240 | 83. | 1 |
| Diethyl phthalate | ND | | ug/kg | 240 | 23. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 240 | 51. | 1 |
| Benzo(a)anthracene | 72 | J | ug/kg | 150 | 28. | 1 |
| Benzo(a)pyrene | 80 | J | ug/kg | 200 | 60. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03 Date Collected: 10/30/18 09:45

Client ID: SB-31D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 100 | J | ug/kg | 150 | 41. | 1 |
| Benzo(k)fluoranthene | 39 | J | ug/kg | 150 | 39. | 1 |
| Chrysene | 90 | J | ug/kg | 150 | 25. | 1 |
| Acenaphthylene | ND | | ug/kg | 200 | 38. | 1 |
| Anthracene | 760 | | ug/kg | 150 | 48. | 1 |
| Benzo(ghi)perylene | 72 | J | ug/kg | 200 | 29. | 1 |
| Fluorene | 3900 | | ug/kg | 240 | 24. | 1 |
| Phenanthrene | 9400 | | ug/kg | 150 | 30. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 150 | 28. | 1 |
| Indeno(1,2,3-cd)pyrene | 64 | J | ug/kg | 200 | 34. | 1 |
| Pyrene | 950 | | ug/kg | 150 | 24. | 1 |
| Biphenyl | 220 | J | ug/kg | 560 | 57. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 240 | 45. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 240 | 47. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 240 | 46. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 240 | 100 | 1 |
| Dibenzofuran | 1900 | | ug/kg | 240 | 23. | 1 |
| 2-Methylnaphthalene | 34000 | E | ug/kg | 290 | 30. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 240 | 26. | 1 |
| Acetophenone | ND | | ug/kg | 240 | 30. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 150 | 46. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 240 | 36. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 240 | 29. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 220 | 39. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 240 | 81. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 530 | 92. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 340 | 100 | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1200 | 110 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 640 | 120 | 1 |
| Pentachlorophenol | ND | | ug/kg | 200 | 54. | 1 |
| Phenol | ND | | ug/kg | 240 | 37. | 1 |
| 2-Methylphenol | ND | | ug/kg | 240 | 38. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 350 | 38. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 240 | 47. | 1 |
| Carbazole | ND | | ug/kg | 240 | 24. | 1 |
| Atrazine | ND | | ug/kg | 200 | 86. | 1 |
| Benzaldehyde | ND | | ug/kg | 320 | 66. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03 Date Collected: 10/30/18 09:45

Client ID: SB-31D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 240 | 74. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 240 | 50. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 71 | | 25-120 |
| Phenol-d6 | 70 | | 10-120 |
| Nitrobenzene-d5 | 96 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 30-120 |
| 2,4,6-Tribromophenol | 51 | | 10-136 |
| 4-Terphenyl-d14 | 60 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03 D
Client ID: SB-31D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 09:45
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 17:44
Analyst: RC
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 11/03/18 08:14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Naphthalene | 13000 | | ug/kg | 2400 | 300 | 10 |
| 2-Methylnaphthalene | 52000 | | ug/kg | 2900 | 300 | 10 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05
Client ID: SB-32D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 10:20
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 01:46
Analyst: RC
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 150 | J | ug/kg | 190 | 24. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 140 | 26. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 210 | 32. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 230 | 23. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 230 | 62. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 230 | 47. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 230 | 40. | 1 |
| Fluoranthene | 42 | J | ug/kg | 140 | 27. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 230 | 25. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 230 | 36. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 280 | 40. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 250 | 24. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 230 | 34. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 670 | 210 | 1 |
| Hexachloroethane | ND | | ug/kg | 190 | 38. | 1 |
| Isophorone | ND | | ug/kg | 210 | 30. | 1 |
| Naphthalene | 360 | | ug/kg | 230 | 28. | 1 |
| Nitrobenzene | ND | | ug/kg | 210 | 35. | 1 |
| NDPA/DPA | ND | | ug/kg | 190 | 27. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 230 | 36. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 230 | 81. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 230 | 59. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 230 | 44. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 230 | 80. | 1 |
| Diethyl phthalate | ND | | ug/kg | 230 | 22. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 230 | 49. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 140 | 26. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 190 | 57. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05 Date Collected: 10/30/18 10:20

Client ID: SB-32D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | ND | | ug/kg | 140 | 40. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 140 | 38. | 1 |
| Chrysene | 41 | J | ug/kg | 140 | 24. | 1 |
| Acenaphthylene | ND | | ug/kg | 190 | 36. | 1 |
| Anthracene | ND | | ug/kg | 140 | 46. | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 190 | 28. | 1 |
| Fluorene | 270 | | ug/kg | 230 | 23. | 1 |
| Phenanthrene | 430 | | ug/kg | 140 | 28. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 140 | 27. | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 190 | 33. | 1 |
| Pyrene | 59 | J | ug/kg | 140 | 23. | 1 |
| Biphenyl | ND | | ug/kg | 530 | 54. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 230 | 43. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 230 | 45. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 230 | 44. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 230 | 97. | 1 |
| Dibenzofuran | 120 | J | ug/kg | 230 | 22. | 1 |
| 2-Methylnaphthalene | 3100 | | ug/kg | 280 | 28. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 230 | 24. | 1 |
| Acetophenone | ND | | ug/kg | 230 | 29. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 140 | 44. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 230 | 35. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 230 | 28. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 210 | 38. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 230 | 77. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 510 | 88. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 330 | 96. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1100 | 110 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 610 | 110 | 1 |
| Pentachlorophenol | ND | | ug/kg | 190 | 52. | 1 |
| Phenol | ND | | ug/kg | 230 | 35. | 1 |
| 2-Methylphenol | ND | | ug/kg | 230 | 36. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 340 | 37. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 230 | 45. | 1 |
| Carbazole | ND | | ug/kg | 230 | 23. | 1 |
| Atrazine | ND | | ug/kg | 190 | 82. | 1 |
| Benzaldehyde | ND | | ug/kg | 310 | 63. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05 Date Collected: 10/30/18 10:20

Client ID: SB-32D Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 230 | 71. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 230 | 47. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 66 | | 25-120 |
| Phenol-d6 | 69 | | 10-120 |
| Nitrobenzene-d5 | 71 | | 23-120 |
| 2-Fluorobiphenyl | 69 | | 30-120 |
| 2,4,6-Tribromophenol | 70 | | 10-136 |
| 4-Terphenyl-d14 | 58 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07
Client ID: SB-34
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 11:00
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 00:34
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 750 | | ug/kg | 150 | 19. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 110 | 21. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 170 | 25. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 190 | 19. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 190 | 50. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 190 | 38. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 190 | 32. | 1 |
| Fluoranthene | 330 | | ug/kg | 110 | 22. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 190 | 20. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 190 | 29. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 220 | 32. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 200 | 19. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 190 | 27. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 540 | 170 | 1 |
| Hexachloroethane | ND | | ug/kg | 150 | 30. | 1 |
| Isophorone | ND | | ug/kg | 170 | 24. | 1 |
| Naphthalene | 3500 | | ug/kg | 190 | 23. | 1 |
| Nitrobenzene | ND | | ug/kg | 170 | 28. | 1 |
| NDPA/DPA | ND | | ug/kg | 150 | 21. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 190 | 29. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 190 | 65. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 190 | 47. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 190 | 36. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 190 | 64. | 1 |
| Diethyl phthalate | ND | | ug/kg | 190 | 17. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 190 | 39. | 1 |
| Benzo(a)anthracene | 170 | | ug/kg | 110 | 21. | 1 |
| Benzo(a)pyrene | 75 | J | ug/kg | 150 | 46. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 Date Collected: 10/30/18 11:00

Client ID: SB-34 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 99 | J | ug/kg | 110 | 32. | 1 |
| Benzo(k)fluoranthene | 36 | J | ug/kg | 110 | 30. | 1 |
| Chrysene | 180 | | ug/kg | 110 | 20. | 1 |
| Acenaphthylene | ND | | ug/kg | 150 | 29. | 1 |
| Anthracene | 250 | | ug/kg | 110 | 36. | 1 |
| Benzo(ghi)perylene | 45 | J | ug/kg | 150 | 22. | 1 |
| Fluorene | 1100 | | ug/kg | 190 | 18. | 1 |
| Phenanthrene | 1800 | | ug/kg | 110 | 23. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 110 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 39 | J | ug/kg | 150 | 26. | 1 |
| Pyrene | 450 | | ug/kg | 110 | 19. | 1 |
| Biphenyl | 1100 | | ug/kg | 430 | 44. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 190 | 34. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 190 | 36. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 190 | 35. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 190 | 78. | 1 |
| Dibenzofuran | 670 | | ug/kg | 190 | 18. | 1 |
| 2-Methylnaphthalene | 17000 | E | ug/kg | 220 | 23. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 190 | 20. | 1 |
| Acetophenone | ND | | ug/kg | 190 | 23. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 110 | 36. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 190 | 22. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 170 | 30. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 190 | 62. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 400 | 70. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 260 | 76. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 900 | 87. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 490 | 90. | 1 |
| Pentachlorophenol | ND | | ug/kg | 150 | 41. | 1 |
| Phenol | ND | | ug/kg | 190 | 28. | 1 |
| 2-Methylphenol | ND | | ug/kg | 190 | 29. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 270 | 29. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 190 | 36. | 1 |
| Carbazole | ND | | ug/kg | 190 | 18. | 1 |
| Atrazine | ND | | ug/kg | 150 | 66. | 1 |
| Benzaldehyde | ND | | ug/kg | 250 | 51. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 Date Collected: 10/30/18 11:00

Client ID: SB-34 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 190 | 57. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 190 | 38. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 36 | | 25-120 |
| Phenol-d6 | 59 | | 10-120 |
| Nitrobenzene-d5 | 116 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 30-120 |
| 2,4,6-Tribromophenol | 15 | | 10-136 |
| 4-Terphenyl-d14 | 60 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 D
Client ID: SB-34
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 11:00
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 17:19
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 2-Methylnaphthalene | 20000 | | ug/kg | 1100 | 110 | 5 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09
Client ID: SB-36
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 11:55
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/06/18 00:58
Analyst: RC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acenaphthene | 110 | J | ug/kg | 160 | 20. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 22. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 180 | 27. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 200 | 20. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 200 | 53. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 200 | 40. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 200 | 34. | 1 |
| Fluoranthene | 750 | | ug/kg | 120 | 23. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 200 | 21. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 200 | 30. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 240 | 34. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 210 | 20. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 200 | 29. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 570 | 180 | 1 |
| Hexachloroethane | ND | | ug/kg | 160 | 32. | 1 |
| Isophorone | ND | | ug/kg | 180 | 26. | 1 |
| Naphthalene | 240 | | ug/kg | 200 | 24. | 1 |
| Nitrobenzene | ND | | ug/kg | 180 | 29. | 1 |
| NDPA/DPA | ND | | ug/kg | 160 | 22. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 200 | 31. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 200 | 69. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 200 | 50. | 1 |
| Di-n-butylphthalate | 290 | | ug/kg | 200 | 38. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 200 | 67. | 1 |
| Diethyl phthalate | ND | | ug/kg | 200 | 18. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 200 | 42. | 1 |
| Benzo(a)anthracene | 360 | | ug/kg | 120 | 22. | 1 |
| Benzo(a)pyrene | 320 | | ug/kg | 160 | 48. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09 Date Collected: 10/30/18 11:55

Client ID: SB-36 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Benzo(b)fluoranthene | 400 | | ug/kg | 120 | 33. | 1 |
| Benzo(k)fluoranthene | 170 | | ug/kg | 120 | 32. | 1 |
| Chrysene | 330 | | ug/kg | 120 | 21. | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | 31. | 1 |
| Anthracene | 200 | | ug/kg | 120 | 39. | 1 |
| Benzo(ghi)perylene | 190 | | ug/kg | 160 | 23. | 1 |
| Fluorene | 130 | J | ug/kg | 200 | 19. | 1 |
| Phenanthrene | 760 | | ug/kg | 120 | 24. | 1 |
| Dibenzo(a,h)anthracene | 51 | J | ug/kg | 120 | 23. | 1 |
| Indeno(1,2,3-cd)pyrene | 210 | | ug/kg | 160 | 28. | 1 |
| Pyrene | 600 | | ug/kg | 120 | 20. | 1 |
| Biphenyl | ND | | ug/kg | 450 | 46. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 200 | 36. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 200 | 38. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 200 | 37. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 200 | 82. | 1 |
| Dibenzofuran | 100 | J | ug/kg | 200 | 19. | 1 |
| 2-Methylnaphthalene | 120 | J | ug/kg | 240 | 24. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 200 | 21. | 1 |
| Acetophenone | ND | | ug/kg | 200 | 24. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 120 | 38. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 200 | 30. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 200 | 23. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 180 | 32. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 200 | 66. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 430 | 75. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 280 | 81. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 950 | 92. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 520 | 95. | 1 |
| Pentachlorophenol | ND | | ug/kg | 160 | 44. | 1 |
| Phenol | ND | | ug/kg | 200 | 30. | 1 |
| 2-Methylphenol | ND | | ug/kg | 200 | 31. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 280 | 31. | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 200 | 38. | 1 |
| Carbazole | 110 | J | ug/kg | 200 | 19. | 1 |
| Atrazine | ND | | ug/kg | 160 | 69. | 1 |
| Benzaldehyde | ND | | ug/kg | 260 | 54. | 1 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09 Date Collected: 10/30/18 11:55

Client ID: SB-36 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Caprolactam | ND | | ug/kg | 200 | 60. | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 200 | 40. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 69 | | 25-120 |
| Phenol-d6 | 72 | | 10-120 |
| Nitrobenzene-d5 | 83 | | 23-120 |
| 2-Fluorobiphenyl | 84 | | 30-120 |
| 2,4,6-Tribromophenol | 84 | | 10-136 |
| 4-Terphenyl-d14 | 56 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D2
Client ID: TW-11
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 14:36
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/18 11:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/04/18 01:55

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |
| 2-Methylnaphthalene | 7700 | | ug/l | 25 | 5.5 | 250 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D
Client ID: TW-11
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 14:36
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/08/18 19:46
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/04/18 01:55

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 40 | 10. | 20 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 100 | 32. | 20 |
| 2,4-Dinitrotoluene | ND | | ug/l | 100 | 23. | 20 |
| 2,6-Dinitrotoluene | ND | | ug/l | 100 | 19. | 20 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 40 | 9.7 | 20 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 40 | 7.6 | 20 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 40 | 10. | 20 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 100 | 10. | 20 |
| Hexachlorocyclopentadiene | ND | | ug/l | 400 | 14. | 20 |
| Isophorone | ND | | ug/l | 100 | 24. | 20 |
| Nitrobenzene | ND | | ug/l | 40 | 15. | 20 |
| NDPA/DPA | ND | | ug/l | 40 | 8.4 | 20 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 100 | 13. | 20 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 60 | 31. | 20 |
| Butyl benzyl phthalate | ND | | ug/l | 100 | 23. | 20 |
| Di-n-butylphthalate | ND | | ug/l | 100 | 7.8 | 20 |
| Di-n-octylphthalate | ND | | ug/l | 100 | 25. | 20 |
| Diethyl phthalate | ND | | ug/l | 100 | 7.6 | 20 |
| Dimethyl phthalate | ND | | ug/l | 100 | 36. | 20 |
| Biphenyl | 380 | | ug/l | 40 | 9.2 | 20 |
| 4-Chloroaniline | ND | | ug/l | 100 | 21. | 20 |
| 2-Nitroaniline | ND | | ug/l | 100 | 10. | 20 |
| 3-Nitroaniline | ND | | ug/l | 100 | 16. | 20 |
| 4-Nitroaniline | ND | | ug/l | 100 | 16. | 20 |
| Dibenzofuran | 180 | | ug/l | 40 | 10. | 20 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 200 | 8.8 | 20 |
| Acetophenone | ND | | ug/l | 100 | 10. | 20 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 100 | 12. | 20 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D Date Collected: 10/30/18 14:36

Client ID: TW-11 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 40 | 7.0 | 20 |
| 2-Chlorophenol | ND | | ug/l | 40 | 9.6 | 20 |
| 2,4-Dichlorophenol | ND | | ug/l | 100 | 8.2 | 20 |
| 2,4-Dimethylphenol | ND | | ug/l | 100 | 36. | 20 |
| 2-Nitrophenol | ND | | ug/l | 200 | 17. | 20 |
| 4-Nitrophenol | ND | | ug/l | 200 | 13. | 20 |
| 2,4-Dinitrophenol | ND | | ug/l | 400 | 130 | 20 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 200 | 36. | 20 |
| Phenol | ND | | ug/l | 100 | 11. | 20 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 100 | 9.6 | 20 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 100 | 15. | 20 |
| Carbazole | ND | | ug/l | 40 | 9.8 | 20 |
| Atrazine | ND | | ug/l | 200 | 15. | 20 |
| Benzaldehyde | ND | | ug/l | 100 | 11. | 20 |
| Caprolactam | ND | | ug/l | 200 | 66. | 20 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 100 | 17. | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | **0** | Q | 21-120 |
| Phenol-d6 | **0** | Q | 10-120 |
| Nitrobenzene-d5 | **0** | Q | 23-120 |
| 2-Fluorobiphenyl | **0** | Q | 15-120 |
| 2,4,6-Tribromophenol | **0** | Q | 10-120 |
| 4-Terphenyl-d14 | **0** | Q | 41-149 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D
Client ID: TW-11
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 14:36
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/07/18 17:56
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/04/18 01:55

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | 320 | | ug/l | 5.0 | 0.72 | 50 |
| 2-Chloronaphthalene | ND | | ug/l | 10 | 0.90 | 50 |
| Fluoranthene | 40 | | ug/l | 5.0 | 1.0 | 50 |
| Hexachlorobutadiene | ND | | ug/l | 25 | 2.3 | 50 |
| Naphthalene | 970 | | ug/l | 5.0 | 2.4 | 50 |
| Benzo(a)anthracene | 20 | | ug/l | 5.0 | 0.99 | 50 |
| Benzo(a)pyrene | 8.8 | | ug/l | 5.0 | 0.75 | 50 |
| Benzo(b)fluoranthene | 11 | | ug/l | 5.0 | 0.58 | 50 |
| Benzo(k)fluoranthene | 3.5 | J | ug/l | 5.0 | 0.44 | 50 |
| Chrysene | 19 | | ug/l | 5.0 | 0.60 | 50 |
| Acenaphthylene | 110 | | ug/l | 5.0 | 0.61 | 50 |
| Anthracene | 54 | | ug/l | 5.0 | 0.72 | 50 |
| Benzo(ghi)perylene | 3.1 | J | ug/l | 5.0 | 0.68 | 50 |
| Fluorene | 420 | | ug/l | 5.0 | 0.73 | 50 |
| Phenanthrene | 750 | | ug/l | 5.0 | 1.2 | 50 |
| Dibenzo(a,h)anthracene | 1.1 | J | ug/l | 5.0 | 0.64 | 50 |
| Indeno(1,2,3-cd)pyrene | 4.3 | J | ug/l | 5.0 | 0.61 | 50 |
| Pyrene | 53 | | ug/l | 5.0 | 0.95 | 50 |
| 2-Methylnaphthalene | 6800 | E | ug/l | 5.0 | 1.1 | 50 |
| Pentachlorophenol | ND | | ug/l | 40 | 0.72 | 50 |
| Hexachlorobenzene | ND | | ug/l | 40 | 0.47 | 50 |
| Hexachloroethane | ND | | ug/l | 40 | 3.2 | 50 |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-10 D Date Collected: 10/30/18 14:36

Client ID: TW-11 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|

Semivolatile Organics by GC/MS-SIM - Westborough Lab

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | **0** | Q | 21-120 |
| Phenol-d6 | **0** | Q | 10-120 |
| Nitrobenzene-d5 | **0** | Q | 23-120 |
| 2-Fluorobiphenyl | **0** | Q | 15-120 |
| 2,4,6-Tribromophenol | **0** | Q | 10-120 |
| 4-Terphenyl-d14 | **0** | Q | 41-149 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/05/18 14:04
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1175374-1 | | | | | |
| Acenaphthene | ND | | ug/kg | 130 | 17. |
| Hexachlorobenzene | ND | | ug/kg | 99 | 18. |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 150 | 22. |
| 2-Chloronaphthalene | ND | | ug/kg | 160 | 16. |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene | ND | | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene | ND | | ug/kg | 160 | 28. |
| Fluoranthene | ND | | ug/kg | 99 | 19. |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 180 | 16. |
| Hexachlorobutadiene | ND | | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene | ND | | ug/kg | 470 | 150 |
| Hexachloroethane | ND | | ug/kg | 130 | 27. |
| Isophorone | ND | | ug/kg | 150 | 21. |
| Naphthalene | ND | | ug/kg | 160 | 20. |
| Nitrobenzene | ND | | ug/kg | 150 | 24. |
| NDPA/DPA | ND | | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 160 | 25. |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 160 | 57. |
| Butyl benzyl phthalate | ND | | ug/kg | 160 | 42. |
| Di-n-butylphthalate | ND | | ug/kg | 160 | 31. |
| Di-n-octylphthalate | ND | | ug/kg | 160 | 56. |
| Diethyl phthalate | ND | | ug/kg | 160 | 15. |
| Dimethyl phthalate | ND | | ug/kg | 160 | 35. |
| Benzo(a)anthracene | ND | | ug/kg | 99 | 18. |
| Benzo(a)pyrene | ND | | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene | ND | | ug/kg | 99 | 28. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/05/18 14:04
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1175374-1 | | | | | |
| Benzo(k)fluoranthene | ND | | ug/kg | 99 | 26. |
| Chrysene | ND | | ug/kg | 99 | 17. |
| Acenaphthylene | ND | | ug/kg | 130 | 25. |
| Anthracene | ND | | ug/kg | 99 | 32. |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | 19. |
| Fluorene | ND | | ug/kg | 160 | 16. |
| Phenanthrene | ND | | ug/kg | 99 | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 99 | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | 23. |
| Pyrene | ND | | ug/kg | 99 | 16. |
| Biphenyl | ND | | ug/kg | 380 | 38. |
| 4-Chloroaniline | ND | | ug/kg | 160 | 30. |
| 2-Nitroaniline | ND | | ug/kg | 160 | 32. |
| 3-Nitroaniline | ND | | ug/kg | 160 | 31. |
| 4-Nitroaniline | ND | | ug/kg | 160 | 68. |
| Dibenzofuran | ND | | ug/kg | 160 | 16. |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 160 | 17. |
| Acetophenone | ND | | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 99 | 31. |
| p-Chloro-m-cresol | ND | | ug/kg | 160 | 24. |
| 2-Chlorophenol | ND | | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol | ND | | ug/kg | 150 | 26. |
| 2,4-Dimethylphenol | ND | | ug/kg | 160 | 54. |
| 2-Nitrophenol | ND | | ug/kg | 360 | 62. |
| 4-Nitrophenol | ND | | ug/kg | 230 | 67. |
| 2,4-Dinitrophenol | ND | | ug/kg | 790 | 77. |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 430 | 79. |
| Pentachlorophenol | ND | | ug/kg | 130 | 36. |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/05/18 14:04
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:17

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1175374-1 | | | | | |
| Phenol | ND | | ug/kg | 160 | 25. |
| 2-Methylphenol | ND | | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 160 | 32. |
| Carbazole | ND | | ug/kg | 160 | 16. |
| Atrazine | ND | | ug/kg | 130 | 58. |
| Benzaldehyde | ND | | ug/kg | 220 | 44. |
| Caprolactam | ND | | ug/kg | 160 | 50. |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 160 | 33. |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 75 | | 25-120 |
| Phenol-d6 | 79 | | 10-120 |
| Nitrobenzene-d5 | 81 | | 23-120 |
| 2-Fluorobiphenyl | 78 | | 30-120 |
| 2,4,6-Tribromophenol | 82 | | 10-136 |
| 4-Terphenyl-d14 | 80 | | 18-120 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/18 10:27
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/03/18 10:46

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1175649-1 | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/18 10:27
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/03/18 10:46

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1175649-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 60 | | 21-120 |
| Phenol-d6 | 52 | | 10-120 |
| Nitrobenzene-d5 | 84 | | 23-120 |
| 2-Fluorobiphenyl | 72 | | 15-120 |
| 2,4,6-Tribromophenol | 71 | | 10-120 |
| 4-Terphenyl-d14 | 78 | | 41-149 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/18 17:18
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/03/18 10:55

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1175650-1 | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/18 17:18
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/03/18 10:55

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1175650-1 | | | | | |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 |
| Phenol | ND | | ug/l | 5.0 | 0.57 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 |
| Atrazine | ND | | ug/l | 10 | 0.76 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 |
| Caprolactam | ND | | ug/l | 10 | 3.3 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 21-120 |
| Phenol-d6 | 45 | | 10-120 |
| Nitrobenzene-d5 | 65 | | 23-120 |
| 2-Fluorobiphenyl | 70 | | 15-120 |
| 2,4,6-Tribromophenol | 48 | | 10-120 |
| 4-Terphenyl-d14 | 64 | | 41-149 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1175374-2 WG1175374-3 | | | | | | | | |
| Acenaphthene | 85 | | 79 | | 31-137 | 7 | | 50 |
| Hexachlorobenzene | 85 | | 77 | | 40-140 | 10 | | 50 |
| Bis(2-chloroethyl)ether | 80 | | 78 | | 40-140 | 3 | | 50 |
| 2-Chloronaphthalene | 89 | | 82 | | 40-140 | 8 | | 50 |
| 3,3'-Dichlorobenzidine | 64 | | 62 | | 40-140 | 3 | | 50 |
| 2,4-Dinitrotoluene | 99 | | 92 | | 40-132 | 7 | | 50 |
| 2,6-Dinitrotoluene | 100 | | 92 | | 40-140 | 8 | | 50 |
| Fluoranthene | 92 | | 84 | | 40-140 | 9 | | 50 |
| 4-Chlorophenyl phenyl ether | 87 | | 80 | | 40-140 | 8 | | 50 |
| 4-Bromophenyl phenyl ether | 87 | | 80 | | 40-140 | 8 | | 50 |
| Bis(2-chloroisopropyl)ether | 79 | | 74 | | 40-140 | 7 | | 50 |
| Bis(2-chloroethoxy)methane | 84 | | 79 | | 40-117 | 6 | | 50 |
| Hexachlorobutadiene | 86 | | 82 | | 40-140 | 5 | | 50 |
| Hexachlorocyclopentadiene | 93 | | 88 | | 40-140 | 6 | | 50 |
| Hexachloroethane | 79 | | 74 | | 40-140 | 7 | | 50 |
| Isophorone | 95 | | 88 | | 40-140 | 8 | | 50 |
| Naphthalene | 81 | | 77 | | 40-140 | 5 | | 50 |
| Nitrobenzene | 96 | | 91 | | 40-140 | 5 | | 50 |
| NDPA/DPA | 89 | | 82 | | 36-157 | 8 | | 50 |
| n-Nitrosodi-n-propylamine | 102 | | 96 | | 32-121 | 6 | | 50 |
| Bis(2-ethylhexyl)phthalate | 85 | | 80 | | 40-140 | 6 | | 50 |
| Butyl benzyl phthalate | 105 | | 95 | | 40-140 | 10 | | 50 |
| Di-n-butylphthalate | 96 | | 88 | | 40-140 | 9 | | 50 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1175374-2 WG1175374-3 | | | | | | | | |
| Di-n-octylphthalate | 90 | | 83 | | 40-140 | 8 | | 50 |
| Diethyl phthalate | 94 | | 86 | | 40-140 | 9 | | 50 |
| Dimethyl phthalate | 93 | | 86 | | 40-140 | 8 | | 50 |
| Benzo(a)anthracene | 88 | | 82 | | 40-140 | 7 | | 50 |
| Benzo(a)pyrene | 101 | | 93 | | 40-140 | 8 | | 50 |
| Benzo(b)fluoranthene | 97 | | 88 | | 40-140 | 10 | | 50 |
| Benzo(k)fluoranthene | 92 | | 88 | | 40-140 | 4 | | 50 |
| Chrysene | 86 | | 81 | | 40-140 | 6 | | 50 |
| Acenaphthylene | 93 | | 86 | | 40-140 | 8 | | 50 |
| Anthracene | 88 | | 81 | | 40-140 | 8 | | 50 |
| Benzo(ghi)perylene | 93 | | 86 | | 40-140 | 8 | | 50 |
| Fluorene | 90 | | 82 | | 40-140 | 9 | | 50 |
| Phenanthrene | 83 | | 77 | | 40-140 | 8 | | 50 |
| Dibenzo(a,h)anthracene | 94 | | 86 | | 40-140 | 9 | | 50 |
| Indeno(1,2,3-cd)pyrene | 98 | | 88 | | 40-140 | 11 | | 50 |
| Pyrene | 89 | | 82 | | 35-142 | 8 | | 50 |
| Biphenyl | 94 | | 87 | | 54-104 | 8 | | 50 |
| 4-Chloroaniline | 80 | | 86 | | 40-140 | 7 | | 50 |
| 2-Nitroaniline | 100 | | 94 | | 47-134 | 6 | | 50 |
| 3-Nitroaniline | 74 | | 69 | | 26-129 | 7 | | 50 |
| 4-Nitroaniline | 94 | | 87 | | 41-125 | 8 | | 50 |
| Dibenzofuran | 88 | | 81 | | 40-140 | 8 | | 50 |
| 2-Methylnaphthalene | 86 | | 81 | | 40-140 | 6 | | 50 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1175374-2 WG1175374-3 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 90 | | 86 | | 40-117 | 5 | | 50 |
| Acetophenone | 96 | | 89 | | 14-144 | 8 | | 50 |
| 2,4,6-Trichlorophenol | 96 | | 90 | | 30-130 | 6 | | 50 |
| p-Chloro-m-cresol | 95 | | 88 | | 26-103 | 8 | | 50 |
| 2-Chlorophenol | 86 | | 80 | | 25-102 | 7 | | 50 |
| 2,4-Dichlorophenol | 93 | | 86 | | 30-130 | 8 | | 50 |
| 2,4-Dimethylphenol | 93 | | 87 | | 30-130 | 7 | | 50 |
| 2-Nitrophenol | 94 | | 89 | | 30-130 | 5 | | 50 |
| 4-Nitrophenol | 112 | | 101 | | 11-114 | 10 | | 50 |
| 2,4-Dinitrophenol | 82 | | 76 | | 4-130 | 8 | | 50 |
| 4,6-Dinitro-o-cresol | 86 | | 80 | | 10-130 | 7 | | 50 |
| Pentachlorophenol | 88 | | 77 | | 17-109 | 13 | | 50 |
| Phenol | 82 | | 77 | | 26-90 | 6 | | 50 |
| 2-Methylphenol | 87 | | 81 | | 30-130. | 7 | | 50 |
| 3-Methylphenol/4-Methylphenol | 88 | | 81 | | 30-130 | 8 | | 50 |
| 2,4,5-Trichlorophenol | 97 | | 90 | | 30-130 | 7 | | 50 |
| Carbazole | 88 | | 80 | | 54-128 | 10 | | 50 |
| Atrazine | 102 | | 93 | | 40-140 | 9 | | 50 |
| Benzaldehyde | 78 | | 74 | | 40-140 | 5 | | 50 |
| Caprolactam | 106 | | 99 | | 15-130 | 7 | | 50 |
| 2,3,4,6-Tetrachlorophenol | 95 | | 86 | | 40-140 | 10 | | 50 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1175374-2 WG1175374-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 84 | | 79 | | 25-120 |
| Phenol-d6 | 86 | | 81 | | 10-120 |
| Nitrobenzene-d5 | 94 | | 86 | | 23-120 |
| 2-Fluorobiphenyl | 85 | | 79 | | 30-120 |
| 2,4,6-Tribromophenol | 89 | | 82 | | 10-136 |
| 4-Terphenyl-d14 | 78 | | 70 | | 18-120 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1175649-2 WG1175649-3 | | | | | | | | |
| Acenaphthene | 87 | | 81 | | 40-140 | 7 | | 40 |
| 2-Chloronaphthalene | 89 | | 81 | | 40-140 | 9 | | 40 |
| Fluoranthene | 92 | | 88 | | 40-140 | 4 | | 40 |
| Hexachlorobutadiene | 83 | | 77 | | 40-140 | 8 | | 40 |
| Naphthalene | 83 | | 76 | | 40-140 | 9 | | 40 |
| Benzo(a)anthracene | 105 | | 101 | | 40-140 | 4 | | 40 |
| Benzo(a)pyrene | 98 | | 93 | | 40-140 | 5 | | 40 |
| Benzo(b)fluoranthene | 99 | | 96 | | 40-140 | 3 | | 40 |
| Benzo(k)fluoranthene | 92 | | 88 | | 40-140 | 4 | | 40 |
| Chrysene | 88 | | 84 | | 40-140 | 5 | | 40 |
| Acenaphthylene | 95 | | 86 | | 40-140 | 10 | | 40 |
| Anthracene | 87 | | 83 | | 40-140 | 5 | | 40 |
| Benzo(ghi)perylene | 100 | | 95 | | 40-140 | 5 | | 40 |
| Fluorene | 96 | | 88 | | 40-140 | 9 | | 40 |
| Phenanthrene | 83 | | 80 | | 40-140 | 4 | | 40 |
| Dibenzo(a,h)anthracene | 99 | | 93 | | 40-140 | 6 | | 40 |
| Indeno(1,2,3-cd)pyrene | 111 | | 105 | | 40-140 | 6 | | 40 |
| Pyrene | 93 | | 87 | | 40-140 | 7 | | 40 |
| 2-Methylnaphthalene | 88 | | 80 | | 40-140 | 10 | | 40 |
| Pentachlorophenol | 83 | | 82 | | 40-140 | 1 | | 40 |
| Hexachlorobenzene | 86 | | 82 | | 40-140 | 5 | | 40 |
| Hexachloroethane | 77 | | 72 | | 40-140 | 7 | | 40 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1175649-2 WG1175649-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 68 | | 61 | | 21-120 |
| Phenol-d6 | 59 | | 52 | | 10-120 |
| Nitrobenzene-d5 | 95 | | 86 | | 23-120 |
| 2-Fluorobiphenyl | 82 | | 73 | | 15-120 |
| 2,4,6-Tribromophenol | 93 | | 79 | | 10-120 |
| 4-Terphenyl-d14 | 79 | | 74 | | 41-149 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1175650-2 WG1175650-3 | | | | | | | | |
| Bis(2-chloroethyl)ether | 78 | | 75 | | 40-140 | 4 | | 30 |
| 3,3'-Dichlorobenzidine | 48 | | 48 | | 40-140 | 0 | | 30 |
| 2,4-Dinitrotoluene | 93 | | 82 | | 48-143 | 13 | | 30 |
| 2,6-Dinitrotoluene | 95 | | 83 | | 40-140 | 13 | | 30 |
| 4-Chlorophenyl phenyl ether | 90 | | 81 | | 40-140 | 11 | | 30 |
| 4-Bromophenyl phenyl ether | 90 | | 80 | | 40-140 | 12 | | 30 |
| Bis(2-chloroisopropyl)ether | 89 | | 85 | | 40-140 | 5 | | 30 |
| Bis(2-chloroethoxy)methane | 85 | | 81 | | 40-140 | 5 | | 30 |
| Hexachlorocyclopentadiene | 72 | | 67 | | 40-140 | 7 | | 30 |
| Isophorone | 84 | | 78 | | 40-140 | 7 | | 30 |
| Nitrobenzene | 81 | | 77 | | 40-140 | 5 | | 30 |
| NDPA/DPA | 93 | | 81 | | 40-140 | 14 | | 30 |
| n-Nitrosodi-n-propylamine | 88 | | 80 | | 29-132 | 10 | | 30 |
| Bis(2-ethylhexyl)phthalate | 87 | | 78 | | 40-140 | 11 | | 30 |
| Butyl benzyl phthalate | 77 | | 70 | | 40-140 | 10 | | 30 |
| Di-n-butylphthalate | 81 | | 71 | | 40-140 | 13 | | 30 |
| Di-n-octylphthalate | 75 | | 70 | | 40-140 | 7 | | 30 |
| Diethyl phthalate | 98 | | 87 | | 40-140 | 12 | | 30 |
| Dimethyl phthalate | 99 | | 90 | | 40-140 | 10 | | 30 |
| Biphenyl | 90 | | 81 | | 40-140 | 11 | | 30 |
| 4-Chloroaniline | 45 | | 55 | | 40-140 | 20 | | 30 |
| 2-Nitroaniline | 84 | | 79 | | 52-143 | 6 | | 30 |
| 3-Nitroaniline | 71 | | 63 | | 25-145 | 12 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1175650-2 WG1175650-3 | | | | | | | | |
| 4-Nitroaniline | 74 | | 66 | | 51-143 | 11 | | 30 |
| Dibenzofuran | 86 | | 77 | | 40-140 | 11 | | 30 |
| 1,2,4,5-Tetrachlorobenzene | 82 | | 75 | | 2-134 | 9 | | 30 |
| Acetophenone | 82 | | 77 | | 39-129 | 6 | | 30 |
| 2,4,6-Trichlorophenol | 86 | | 76 | | 30-130 | 12 | | 30 |
| p-Chloro-m-cresol | 88 | | 81 | | 23-97 | 8 | | 30 |
| 2-Chlorophenol | 74 | | 72 | | 27-123 | 3 | | 30 |
| 2,4-Dichlorophenol | 83 | | 80 | | 30-130 | 4 | | 30 |
| 2,4-Dimethylphenol | 59 | | 64 | | 30-130 | 8 | | 30 |
| 2-Nitrophenol | 80 | | 75 | | 30-130 | 6 | | 30 |
| 4-Nitrophenol | **85** | Q | 71 | | 10-80 | 18 | | 30 |
| 2,4-Dinitrophenol | 80 | | 67 | | 20-130 | 18 | | 30 |
| 4,6-Dinitro-o-cresol | 83 | | 73 | | 20-164 | 13 | | 30 |
| Phenol | 60 | | 56 | | 12-110 | 7 | | 30 |
| 3-Methylphenol/4-Methylphenol | 76 | | 72 | | 30-130 | 5 | | 30 |
| 2,4,5-Trichlorophenol | 90 | | 82 | | 30-130 | 9 | | 30 |
| Carbazole | 84 | | 71 | | 55-144 | 17 | | 30 |
| Atrazine | 96 | | 85 | | 40-140 | 12 | | 30 |
| Benzaldehyde | 70 | | 67 | | 40-140 | 4 | | 30 |
| Caprolactam | 42 | | 36 | | 10-130 | 15 | | 30 |
| 2,3,4,6-Tetrachlorophenol | 92 | | 81 | | 40-140 | 13 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1175650-2 WG1175650-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 60 | | 56 | | 21-120 |
| Phenol-d6 | 52 | | 50 | | 10-120 |
| Nitrobenzene-d5 | 76 | | 72 | | 23-120 |
| 2-Fluorobiphenyl | 83 | | 74 | | 15-120 |
| 2,4,6-Tribromophenol | 86 | | 74 | | 10-120 |
| 4-Terphenyl-d14 | 71 | | 63 | | 41-149 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Client ID: SB-36 | Associated sample(s): 03,05,07,09 | | QC Batch ID: WG1175374-4 | | | WG1175374-5 | | | QC Sample: L1844375-09 | | | |
| Acenaphthene | 110J | 1600 | 1300 | 81 | | 1400 | 88 | | 31-137 | 7 | | 50 |
| Hexachlorobenzene | ND | 1600 | 1000 | 63 | | 1200 | 75 | | 40-140 | 18 | | 50 |
| Bis(2-chloroethyl)ether | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| 2-Chloronaphthalene | ND | 1600 | 1200 | 75 | | 1200 | 75 | | 40-140 | 0 | | 50 |
| 3,3'-Dichlorobenzidine | ND | 1600 | 1000 | 63 | | 1100 | 69 | | 40-140 | 10 | | 50 |
| 2,4-Dinitrotoluene | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-132 | 8 | | 50 |
| 2,6-Dinitrotoluene | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| Fluoranthene | 750 | 1600 | 2000 | 78 | | 2300 | 98 | | 40-140 | 14 | | 50 |
| 4-Chlorophenyl phenyl ether | ND | 1600 | 1200 | 75 | | 1200 | 75 | | 40-140 | 0 | | 50 |
| 4-Bromophenyl phenyl ether | ND | 1600 | 1100 | 69 | | 1200 | 75 | | 40-140 | 9 | | 50 |
| Bis(2-chloroisopropyl)ether | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |
| Bis(2-chloroethoxy)methane | ND | 1600 | 1300 | 81 | | 1300 | 82 | | 40-117 | 0 | | 50 |
| Hexachlorobutadiene | ND | 1600 | 1100 | 69 | | 1200 | 75 | | 40-140 | 9 | | 50 |
| Hexachlorocyclopentadiene | ND | 1600 | 330J | **21** | Q | 340J | **21** | Q | 40-140 | 3 | | 50 |
| Hexachloroethane | ND | 1600 | 970 | 61 | | 1000 | 63 | | 40-140 | 3 | | 50 |
| Isophorone | ND | 1600 | 1500 | 94 | | 1600 | 100 | | 40-140 | 6 | | 50 |
| Naphthalene | 240 | 1600 | 1300 | 66 | | 1500 | 79 | | 40-140 | 14 | | 50 |
| Nitrobenzene | ND | 1600 | 1400 | 88 | | 1500 | 94 | | 40-140 | 7 | | 50 |
| NDPA/DPA | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 36-157 | 8 | | 50 |
| n-Nitrosodi-n-propylamine | ND | 1600 | 1600 | 100 | | 1700 | 110 | | 32-121 | 6 | | 50 |
| Bis(2-ethylhexyl)phthalate | ND | 1600 | 1400 | 88 | | 1400 | 88 | | 40-140 | 0 | | 50 |
| Butyl benzyl phthalate | ND | 1600 | 1500 | 94 | | 1600 | 100 | | 40-140 | 6 | | 50 |
| Di-n-butylphthalate | 290 | 1600 | 1600 | 82 | | 1600 | 82 | | 40-140 | 0 | | 50 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Client ID: SB-36 | Associated sample(s): 03,05,07,09 | | | | | QC Batch ID: WG1175374-4 | | | WG1175374-5 | | | QC Sample: L1844375-09 |
| Di-n-octylphthalate | ND | 1600 | 1400 | 88 | | 1500 | 94 | | 40-140 | 7 | | 50 |
| Diethyl phthalate | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |
| Dimethyl phthalate | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| Benzo(a)anthracene | 360 | 1600 | 1600 | 78 | | 1800 | 91 | | 40-140 | 12 | | 50 |
| Benzo(a)pyrene | 320 | 1600 | 1700 | 86 | | 1900 | 99 | | 40-140 | 11 | | 50 |
| Benzo(b)fluoranthene | 400 | 1600 | 1800 | 88 | | 1900 | 94 | | 40-140 | 5 | | 50 |
| Benzo(k)fluoranthene | 170 | 1600 | 1400 | 77 | | 1500 | 84 | | 40-140 | 7 | | 50 |
| Chrysene | 330 | 1600 | 1500 | 73 | | 1600 | 80 | | 40-140 | 6 | | 50 |
| Acenaphthylene | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| Anthracene | 200 | 1600 | 1400 | 75 | | 1500 | 82 | | 40-140 | 7 | | 50 |
| Benzo(ghi)perylene | 190 | 1600 | 1400 | 76 | | 1500 | 82 | | 40-140 | 7 | | 50 |
| Fluorene | 130J | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |
| Phenanthrene | 760 | 1600 | 1800 | 65 | | 2100 | 84 | | 40-140 | 15 | | 50 |
| Dibenzo(a,h)anthracene | 51.J | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| Indeno(1,2,3-cd)pyrene | 210 | 1600 | 1500 | 81 | | 1600 | 87 | | 40-140 | 6 | | 50 |
| Pyrene | 600 | 1600 | 1800 | 75 | | 2000 | 88 | | 35-142 | 11 | | 50 |
| Biphenyl | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 54-104 | 7 | | 50 |
| 4-Chloroaniline | ND | 1600 | 1100 | 69 | | 1100 | 69 | | 40-140 | 0 | | 50 |
| 2-Nitroaniline | ND | 1600 | 1400 | 88 | | 1500 | 94 | | 47-134 | 7 | | 50 |
| 3-Nitroaniline | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 26-129 | 7 | | 50 |
| 4-Nitroaniline | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 41-125 | 7 | | 50 |
| Dibenzofuran | 100J | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |
| 2-Methylnaphthalene | 120J | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1175374-4 WG1175374-5 QC Sample: L1844375-09 Client ID: SB-36 | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-117 | 8 | | 50 |
| Acetophenone | ND | 1600 | 1400 | 88 | | 1500 | 94 | | 14-144 | 7 | | 50 |
| 2,4,6-Trichlorophenol | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 30-130 | 7 | | 50 |
| p-Chloro-m-cresol | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 26-103 | 7 | | 50 |
| 2-Chlorophenol | ND | 1600 | 1200 | 75 | | 1200 | 75 | | 25-102 | 0 | | 50 |
| 2,4-Dichlorophenol | ND | 1600 | 1300 | 81 | | 1300 | 82 | | 30-130 | 0 | | 50 |
| 2,4-Dimethylphenol | ND | 1600 | 1100 | 69 | | 1100 | 69 | | 30-130 | 0 | | 50 |
| 2-Nitrophenol | ND | 1600 | 1100 | 69 | | 1100 | 69 | | 30-130 | 0 | | 50 |
| 4-Nitrophenol | ND | 1600 | 1100 | 69 | | 1200 | 75 | | 11-114 | 9 | | 50 |
| 2,4-Dinitrophenol | ND | 1600 | ND | **0** | Q | ND | **0** | Q | 4-130 | NC | | 50 |
| 4,6-Dinitro-o-cresol | ND | 1600 | 190J | 12 | | 200J | 13 | | 10-130 | 5 | | 50 |
| Pentachlorophenol | ND | 1600 | 1000 | 63 | | 1000 | 63 | | 17-109 | 0 | | 50 |
| Phenol | ND | 1600 | 1100 | 69 | | 1200 | 75 | | 26-90 | 9 | | 50 |
| 2-Methylphenol | ND | 1600 | 1100 | 69 | | 1200 | 75 | | 30-130. | 9 | | 50 |
| 3-Methylphenol/4-Methylphenol | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 30-130 | 8 | | 50 |
| 2,4,5-Trichlorophenol | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 30-130 | 7 | | 50 |
| Carbazole | 110J | 1600 | 1300 | 81 | | 1400 | 88 | | 54-128 | 7 | | 50 |
| Atrazine | ND | 1600 | 1300 | 81 | | 1400 | 88 | | 40-140 | 7 | | 50 |
| Benzaldehyde | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |
| Caprolactam | ND | 1600 | 1400 | 88 | | 1600 | 100 | | 15-130 | 13 | | 50 |
| 2,3,4,6-Tetrachlorophenol | ND | 1600 | 1200 | 75 | | 1300 | 82 | | 40-140 | 8 | | 50 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** ROME-TURNEY

***Project Number:*** 18-046

***Lab Number:*** L1844375

***Report Date:*** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1175374-4 WG1175374-5 QC Sample: L1844375-09 Client ID: SB-36 | | | | | | | | | | | | |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 70 | | 77 | | 10-136 |
| 2-Fluorobiphenyl | 71 | | 75 | | 30-120 |
| 2-Fluorophenol | 70 | | 75 | | 25-120 |
| 4-Terphenyl-d14 | 58 | | 66 | | 18-120 |
| Nitrobenzene-d5 | 89 | | 94 | | 23-120 |
| Phenol-d6 | 71 | | 77 | | 10-120 |

# METALS

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-01 Date Collected: 10/30/18 09:28

Client ID: SB-30 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 2650 | | mg/kg | 10.3 | 2.77 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Antimony, Total | 0.400 | J | mg/kg | 5.13 | 0.390 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Arsenic, Total | 7.89 | | mg/kg | 1.03 | 0.213 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Barium, Total | 56.0 | | mg/kg | 1.03 | 0.178 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Beryllium, Total | 0.287 | J | mg/kg | 0.513 | 0.034 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Cadmium, Total | 0.226 | J | mg/kg | 1.03 | 0.100 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Calcium, Total | 2960 | | mg/kg | 10.3 | 3.59 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Chromium, Total | 6.86 | | mg/kg | 1.03 | 0.099 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Cobalt, Total | 3.90 | | mg/kg | 2.05 | 0.170 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Copper, Total | 22.7 | | mg/kg | 1.03 | 0.265 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Iron, Total | 3210 | | mg/kg | 5.13 | 0.927 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Lead, Total | 40.7 | | mg/kg | 5.13 | 0.275 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Magnesium, Total | 156 | | mg/kg | 10.3 | 1.58 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Manganese, Total | 45.5 | | mg/kg | 1.03 | 0.163 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Mercury, Total | 0.128 | | mg/kg | 0.082 | 0.017 | 1 | 11/01/18 05:25 | 11/01/18 20:47 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 9.23 | | mg/kg | 2.56 | 0.248 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Potassium, Total | 291 | | mg/kg | 256 | 14.8 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Selenium, Total | 0.513 | J | mg/kg | 2.05 | 0.265 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Silver, Total | ND | | mg/kg | 1.03 | 0.290 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Sodium, Total | 87.7 | J | mg/kg | 205 | 3.23 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Thallium, Total | ND | | mg/kg | 2.05 | 0.323 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Vanadium, Total | 15.8 | | mg/kg | 1.03 | 0.208 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |
| Zinc, Total | 66.4 | | mg/kg | 5.13 | 0.301 | 2 | 10/31/18 20:30 | 11/06/18 12:04 | EPA 3050B | 1,6010D | LC |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-02 Date Collected: 10/30/18 09:33

Client ID: SB-31S Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 1620 | | mg/kg | 9.67 | 2.61 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | ND | | mg/kg | 4.84 | 0.367 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 7.39 | | mg/kg | 0.967 | 0.201 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 18.8 | | mg/kg | 0.967 | 0.168 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.329 | J | mg/kg | 0.484 | 0.032 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 2.05 | | mg/kg | 0.967 | 0.095 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 2840 | | mg/kg | 9.67 | 3.38 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 15.6 | | mg/kg | 0.967 | 0.093 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 3.24 | | mg/kg | 1.93 | 0.160 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 138 | | mg/kg | 0.967 | 0.249 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 34000 | | mg/kg | 4.84 | 0.873 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 358 | | mg/kg | 4.84 | 0.259 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 508 | | mg/kg | 9.67 | 1.49 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 575 | | mg/kg | 0.967 | 0.154 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 0.128 | | mg/kg | 0.079 | 0.017 | 1 | 11/01/18 05:25 | 11/01/18 20:49 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 6.07 | | mg/kg | 2.42 | 0.234 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 103 | J | mg/kg | 242 | 13.9 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 0.628 | J | mg/kg | 1.93 | 0.249 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.967 | 0.274 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 62.8 | J | mg/kg | 193 | 3.05 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.93 | 0.305 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 37.8 | | mg/kg | 0.967 | 0.196 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 433 | | mg/kg | 4.84 | 0.283 | 2 | 10/31/18 20:30 | 11/06/18 18:29 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY
**Lab Number:** L1844375
**Project Number:** 18-046
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03
Client ID: SB-31D
Sample Location: 109 CANAL ST., ROME, NY
Date Collected: 10/30/18 09:45
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Lead, Total | 700 | | mg/kg | 2.89 | 0.155 | 1 | 10/31/18 20:30 | 11/06/18 20:17 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-04 Date Collected: 10/30/18 10:00

Client ID: SB-32S Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 3410 | | mg/kg | 9.81 | 2.65 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 0.657 | J | mg/kg | 4.90 | 0.373 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 4.44 | | mg/kg | 0.981 | 0.204 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 32.7 | | mg/kg | 0.981 | 0.171 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.441 | J | mg/kg | 0.490 | 0.032 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 27.8 | | mg/kg | 0.981 | 0.096 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 1590 | | mg/kg | 9.81 | 3.43 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 8.38 | | mg/kg | 0.981 | 0.094 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 4.45 | | mg/kg | 1.96 | 0.163 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 695 | | mg/kg | 0.981 | 0.253 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 29300 | | mg/kg | 4.90 | 0.886 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 205 | | mg/kg | 4.90 | 0.263 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 832 | | mg/kg | 9.81 | 1.51 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 277 | | mg/kg | 0.981 | 0.156 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 45.8 | | mg/kg | 4.02 | 0.848 | 50 | 11/01/18 05:25 | 11/01/18 23:31 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 10.2 | | mg/kg | 2.45 | 0.237 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 109 | J | mg/kg | 245 | 14.1 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 0.451 | J | mg/kg | 1.96 | 0.253 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.981 | 0.278 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 28.3 | J | mg/kg | 196 | 3.09 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.96 | 0.309 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 22.2 | | mg/kg | 0.981 | 0.199 | 2 | 10/31/18 20:30 | 11/06/18 18:33 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 4850 | | mg/kg | 49.0 | 2.87 | 20 | 10/31/18 20:30 | 11/06/18 20:29 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY
**Lab Number:** L1844375
**Project Number:** 18-046
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05
Client ID: SB-32D
Sample Location: 109 CANAL ST., ROME, NY
Date Collected: 10/30/18 10:20
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 70%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Lead, Total | 68.8 | | mg/kg | 2.78 | 0.149 | 1 | 10/31/18 20:30 | 11/06/18 20:21 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-06 Date Collected: 10/30/18 10:32

Client ID: SB-33 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 55%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 3250 | | mg/kg | 14.4 | 3.88 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 2.42 | J | mg/kg | 7.18 | 0.545 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 40.1 | | mg/kg | 1.44 | 0.298 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 277 | | mg/kg | 1.44 | 0.250 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.287 | J | mg/kg | 0.718 | 0.047 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 40.9 | | mg/kg | 1.44 | 0.141 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 9290 | | mg/kg | 14.4 | 5.02 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 18.3 | | mg/kg | 1.44 | 0.138 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 6.79 | | mg/kg | 2.87 | 0.238 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 126 | | mg/kg | 1.44 | 0.370 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 70400 | | mg/kg | 7.18 | 1.30 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 1470 | | mg/kg | 7.18 | 0.385 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 876 | | mg/kg | 14.4 | 2.21 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 350 | | mg/kg | 1.44 | 0.228 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 28.4 | | mg/kg | 1.14 | 0.240 | 10 | 11/01/18 05:25 | 11/01/18 23:25 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 31.8 | | mg/kg | 3.59 | 0.347 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 356 | J | mg/kg | 359 | 20.7 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | 1.91 | J | mg/kg | 2.87 | 0.370 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Silver, Total | 0.459 | J | mg/kg | 1.44 | 0.406 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 118 | J | mg/kg | 287 | 4.52 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.87 | 0.452 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 16.8 | | mg/kg | 1.44 | 0.291 | 2 | 10/31/18 20:30 | 11/06/18 18:37 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 6340 | | mg/kg | 71.8 | 4.20 | 20 | 10/31/18 20:30 | 11/06/18 20:33 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07 Date Collected: 10/30/18 11:00

Client ID: SB-34 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Lead, Total | 7.25 | | mg/kg | 2.20 | 0.118 | 1 | 10/31/18 20:30 | 11/06/18 20:25 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-08 Date Collected: 10/30/18 11:20

Client ID: SB-35 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 8660 | | mg/kg | 10.5 | 2.82 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | ND | | mg/kg | 5.23 | 0.398 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 5.96 | | mg/kg | 1.05 | 0.218 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 81.6 | | mg/kg | 1.05 | 0.182 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.555 | | mg/kg | 0.523 | 0.035 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 0.649 | J | mg/kg | 1.05 | 0.102 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 48600 | | mg/kg | 10.5 | 3.66 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 21.5 | | mg/kg | 1.05 | 0.100 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 7.97 | | mg/kg | 2.09 | 0.174 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 37.8 | | mg/kg | 1.05 | 0.270 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 19400 | | mg/kg | 5.23 | 0.945 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 265 | | mg/kg | 5.23 | 0.280 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 3010 | | mg/kg | 10.5 | 1.61 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 450 | | mg/kg | 1.05 | 0.166 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 1.68 | | mg/kg | 0.083 | 0.018 | 1 | 11/01/18 05:25 | 11/01/18 20:56 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 15.8 | | mg/kg | 2.62 | 0.253 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 665 | | mg/kg | 262 | 15.1 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.09 | 0.270 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 1.05 | 0.296 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 102 | J | mg/kg | 209 | 3.30 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.09 | 0.330 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 18.3 | | mg/kg | 1.05 | 0.212 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 197 | | mg/kg | 5.23 | 0.307 | 2 | 10/31/18 20:30 | 11/06/18 18:41 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09 Date Collected: 10/30/18 11:55

Client ID: SB-36 Date Received: 10/30/18

Sample Location: 109 CANAL ST., ROME, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Aluminum, Total | 7390 | | mg/kg | 9.53 | 2.57 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Antimony, Total | 0.486 | J | mg/kg | 4.77 | 0.362 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Arsenic, Total | 8.12 | | mg/kg | 0.953 | 0.198 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Barium, Total | 94.2 | | mg/kg | 0.953 | 0.166 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Beryllium, Total | 0.458 | J | mg/kg | 0.477 | 0.031 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Cadmium, Total | 1.38 | | mg/kg | 0.953 | 0.093 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Calcium, Total | 4180 | | mg/kg | 9.53 | 3.34 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Chromium, Total | 13.2 | | mg/kg | 0.953 | 0.092 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Cobalt, Total | 6.72 | | mg/kg | 1.91 | 0.158 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Copper, Total | 162 | | mg/kg | 0.953 | 0.246 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Iron, Total | 19700 | | mg/kg | 4.77 | 0.861 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Lead, Total | 280 | | mg/kg | 4.77 | 0.255 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Magnesium, Total | 2800 | | mg/kg | 9.53 | 1.47 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Manganese, Total | 514 | | mg/kg | 0.953 | 0.152 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Mercury, Total | 0.260 | | mg/kg | 0.076 | 0.016 | 1 | 11/01/18 05:25 | 11/01/18 20:57 | EPA 7471B | 1,7471B | EA |
| Nickel, Total | 16.0 | | mg/kg | 2.38 | 0.231 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Potassium, Total | 437 | | mg/kg | 238 | 13.7 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Selenium, Total | ND | | mg/kg | 1.91 | 0.246 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.953 | 0.270 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Sodium, Total | 55.0 | J | mg/kg | 191 | 3.00 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Thallium, Total | ND | | mg/kg | 1.91 | 0.300 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Vanadium, Total | 19.8 | | mg/kg | 0.953 | 0.194 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |
| Zinc, Total | 243 | | mg/kg | 4.77 | 0.279 | 2 | 10/31/18 20:30 | 11/06/18 18:46 | EPA 3050B | 1,6010D | AB |

**Project Name:** ROME-TURNEY **Lab Number:** L1844375

**Project Number:** 18-046 **Report Date:** 11/09/18

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01-09 Batch: WG1174531-1 | | | | | | | | | | |
| Aluminum, Total | ND | | mg/kg | 4.00 | 1.08 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Antimony, Total | ND | | mg/kg | 2.00 | 0.152 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Beryllium, Total | ND | | mg/kg | 0.200 | 0.013 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Calcium, Total | ND | | mg/kg | 4.00 | 1.40 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Chromium, Total | ND | | mg/kg | 0.400 | 0.038 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Cobalt, Total | ND | | mg/kg | 0.800 | 0.066 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Copper, Total | ND | | mg/kg | 0.400 | 0.103 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Iron, Total | ND | | mg/kg | 2.00 | 0.361 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Magnesium, Total | ND | | mg/kg | 4.00 | 0.616 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Manganese, Total | 0.208 | J | mg/kg | 0.400 | 0.064 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Nickel, Total | ND | | mg/kg | 1.00 | 0.097 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Potassium, Total | ND | | mg/kg | 100 | 5.76 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Sodium, Total | ND | | mg/kg | 80.0 | 1.26 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Thallium, Total | ND | | mg/kg | 0.800 | 0.126 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Vanadium, Total | ND | | mg/kg | 0.400 | 0.081 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |
| Zinc, Total | ND | | mg/kg | 2.00 | 0.117 | 1 | 10/31/18 20:30 | 11/06/18 11:43 | 1,6010D | LC |

**Prep Information**

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01-02,04,06,08-09 Batch: WG1174632-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | 0.018 | 1 | 11/01/18 05:25 | 11/01/18 20:04 | 1,7471B | EA |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

# Method Blank Analysis
# Batch Quality Control

**Prep Information**

Digestion Method: EPA 7471B

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1174531-2 SRM Lot Number: D102-540 | | | | | | | | |
| Aluminum, Total | 63 | | - | | 49-150 | - | | |
| Antimony, Total | 124 | | - | | 1-199 | - | | |
| Arsenic, Total | 90 | | - | | 83-117 | - | | |
| Barium, Total | 85 | | - | | 83-118 | - | | |
| Beryllium, Total | 89 | | - | | 83-116 | - | | |
| Cadmium, Total | 103 | | - | | 83-118 | - | | |
| Calcium, Total | 102 | | - | | 82-118 | - | | |
| Chromium, Total | 105 | | - | | 83-117 | - | | |
| Cobalt, Total | 91 | | - | | 84-116 | - | | |
| Copper, Total | 90 | | - | | 84-116 | - | | |
| Iron, Total | 74 | | - | | 61-139 | - | | |
| Lead, Total | 88 | | - | | 82-118 | - | | |
| Magnesium, Total | 77 | | - | | 76-124 | - | | |
| Manganese, Total | 82 | | - | | 82-118 | - | | |
| Nickel, Total | 92 | | - | | 83-117 | - | | |
| Potassium, Total | 76 | | - | | 70-130 | - | | |
| Selenium, Total | 93 | | - | | 79-121 | - | | |
| Silver, Total | 85 | | - | | 80-120 | - | | |
| Sodium, Total | 96 | | - | | 74-126 | - | | |
| Thallium, Total | 96 | | - | | 81-119 | - | | |
| Vanadium, Total | 85 | | - | | 80-120 | - | | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

**Lab Number:** L1844375

**Report Date:** 11/09/18

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1174531-2 SRM Lot Number: D102-540 | | | | | |
| Zinc, Total | 90 | - | 81-118 | - | |
| Total Metals - Mansfield Lab Associated sample(s): 01-02,04,06,08-09 Batch: WG1174632-2 SRM Lot Number: D102-540 | | | | | |
| Mercury, Total | 109 | - | 65-134 | - | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1174531-3 QC Sample: L1844375-01 Client ID: SB-30 | | | | | | | | | | | | |
| Aluminum, Total | 2650 | 206 | 4170 | **736** | Q | - | - | | 75-125 | - | | 20 |
| Antimony, Total | 0.400J | 51.6 | 48.7 | 94 | | - | - | | 75-125 | - | | 20 |
| Arsenic, Total | 7.89 | 12.4 | 20.0 | 98 | | - | - | | 75-125 | - | | 20 |
| Barium, Total | 56.0 | 206 | 247 | 92 | | - | - | | 75-125 | - | | 20 |
| Beryllium, Total | 0.287J | 5.16 | 4.91 | 95 | | - | - | | 75-125 | - | | 20 |
| Cadmium, Total | 0.226J | 5.26 | 5.08 | 96 | | - | - | | 75-125 | - | | 20 |
| Calcium, Total | 2960 | 1030 | 2750 | **0** | Q | - | - | | 75-125 | - | | 20 |
| Chromium, Total | 6.86 | 20.6 | 46.2 | **191** | Q | - | - | | 75-125 | - | | 20 |
| Cobalt, Total | 3.90 | 51.6 | 51.8 | 93 | | - | - | | 75-125 | - | | 20 |
| Copper, Total | 22.7 | 25.8 | 58.8 | **140** | Q | - | - | | 75-125 | - | | 20 |
| Iron, Total | 3210 | 103 | 6230 | **2930** | Q | - | - | | 75-125 | - | | 20 |
| Lead, Total | 40.7 | 52.6 | 186 | **276** | Q | - | - | | 75-125 | - | | 20 |
| Magnesium, Total | 156. | 1030 | 1220 | 103 | | - | - | | 75-125 | - | | 20 |
| Manganese, Total | 45.5 | 51.6 | 108 | 121 | | - | - | | 75-125 | - | | 20 |
| Nickel, Total | 9.23 | 51.6 | 59.3 | 97 | | - | - | | 75-125 | - | | 20 |
| Potassium, Total | 291. | 1030 | 1310 | 99 | | - | - | | 75-125 | - | | 20 |
| Selenium, Total | 0.513J | 12.4 | 11.2 | 90 | | - | - | | 75-125 | - | | 20 |
| Silver, Total | ND | 31 | 29.7 | 96 | | - | - | | 75-125 | - | | 20 |
| Sodium, Total | 87.7J | 1030 | 1070 | 104 | | - | - | | 75-125 | - | | 20 |
| Thallium, Total | ND | 12.4 | 10.8 | 87 | | - | - | | 75-125 | - | | 20 |
| Vanadium, Total | 15.8 | 51.6 | 67.2 | 100 | | - | - | | 75-125 | - | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1174531-3 QC Sample: L1844375-01 Client ID: SB-30 | | | | | | | | | | |
| Zinc, Total | 66.4 | 51.6 | 165 | **191** | Q | - | - | 75-125 | - | 20 |
| Total Metals - Mansfield Lab Associated sample(s): 01-02,04,06,08-09 QC Batch ID: WG1174632-3 WG1174632-4 QC Sample: L1844369-09 Client ID: MS Sample | | | | | | | | | | |
| Mercury, Total | ND | 0.131 | 0.142 | 108 | | 0.145 | 110 | 80-120 | 2 | 20 |

# Lab Duplicate Analysis
## *Batch Quality Control*

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

***Lab Number:*** L1844375
***Report Date:*** 11/09/18

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1174531-4 QC Sample: L1844375-01 Client ID: SB-30 | | | | | | |
| Aluminum, Total | 2650 | 2760 | mg/kg | 4 | | 20 |
| Antimony, Total | 0.400J | 0.384J | mg/kg | NC | | 20 |
| Arsenic, Total | 7.89 | 6.86 | mg/kg | 14 | | 20 |
| Barium, Total | 56.0 | 47.3 | mg/kg | 17 | | 20 |
| Beryllium, Total | 0.287J | 0.253J | mg/kg | NC | | 20 |
| Cadmium, Total | 0.226J | 0.162J | mg/kg | NC | | 20 |
| Calcium, Total | 2960 | 1790 | mg/kg | **49** | Q | 20 |
| Chromium, Total | 6.86 | 21.2 | mg/kg | **102** | Q | 20 |
| Cobalt, Total | 3.90 | 4.55 | mg/kg | 15 | | 20 |
| Copper, Total | 22.7 | 22.5 | mg/kg | 1 | | 20 |
| Iron, Total | 3210 | 3760 | mg/kg | 16 | | 20 |
| Lead, Total | 40.7 | 85.1 | mg/kg | **71** | Q | 20 |
| Magnesium, Total | 156. | 301 | mg/kg | **63** | Q | 20 |
| Manganese, Total | 45.5 | 50.0 | mg/kg | 9 | | 20 |
| Nickel, Total | 9.23 | 9.67 | mg/kg | 5 | | 20 |
| Potassium, Total | 291. | 282 | mg/kg | 3 | | 20 |
| Selenium, Total | 0.513J | 0.738J | mg/kg | NC | | 20 |
| Silver, Total | ND | ND | mg/kg | NC | | 20 |
| Sodium, Total | 87.7J | 66.0J | mg/kg | NC | | 20 |

# Lab Duplicate Analysis

***Batch Quality Control***

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

***Lab Number:*** L1844375

***Report Date:*** 11/09/18

| Parameter | Native Sample | Duplicate Sample | Units | RPD | | RPD Limits |
|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1174531-4 QC Sample: L1844375-01 Client ID: SB-30 | | | | | | |
| Thallium, Total | ND | ND | mg/kg | NC | | 20 |
| Vanadium, Total | 15.8 | 14.3 | mg/kg | 10 | | 20 |
| Zinc, Total | 66.4 | 87.7 | mg/kg | **28** | Q | 20 |

# INORGANICS
# &
# MISCELLANEOUS

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-01
Client ID: SB-30
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/30/18 09:28
Date Received: 10/30/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 76.6 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-02
Client ID: SB-31S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 09:33
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 79.3 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-03
Client ID: SB-31D
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/30/18 09:45
Date Received: 10/30/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 66.5 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-04
Client ID: SB-32S
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 10:00
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 78.6 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-05
Client ID: SB-32D
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 10:20
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 70.0 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-06
Client ID: SB-33
Sample Location: 109 CANAL ST., ROME, NY

Date Collected: 10/30/18 10:32
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 55.2 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-07
Client ID: SB-34
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/30/18 11:00
Date Received: 10/30/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.7 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-08
Client ID: SB-35
Sample Location: 109 CANAL ST., ROME, NY
Date Collected: 10/30/18 11:20
Date Received: 10/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 75.6 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046
**Lab Number:** L1844375
**Report Date:** 11/09/18

## SAMPLE RESULTS

Lab ID: L1844375-09
Client ID: SB-36
Sample Location: 109 CANAL ST., ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/30/18 11:55
Date Received: 10/30/18
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 82.4 | | % | 0.100 | NA | 1 | - | 10/31/18 12:24 | 121,2540G | RI |

# Lab Duplicate Analysis

***Batch Quality Control***

**Project Name:** ROME-TURNEY

**Project Number:** 18-046

***Lab Number:*** L1844375

***Report Date:*** 11/09/18

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1174328-1 QC Sample: L1844313-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 79.7 | 80.6 | % | 1 | | 20 |

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1844375-01A | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-01B | Glass 60mL/2oz unpreserved | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-02A | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-02B | Glass 60mL/2oz unpreserved | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-03A | Vial MeOH preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1844375-03B | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-03C | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-03D | Plastic 2oz unpreserved for TS | A | NA | | 3.5 | Y | Absent | | PB-TI(180) |
| L1844375-03E | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8270(14),TS(7) |
| L1844375-03F | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | SUB-TPH310(28) |
| L1844375-04A | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-04B | Glass 60mL/2oz unpreserved | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-05A | Vial MeOH preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1844375-05B | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-05C | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-05D | Plastic 2oz unpreserved for TS | A | NA | | 3.5 | Y | Absent | | PB-TI(180) |



*Values in parentheses indicate holding time in days

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1844375-05E | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8270(14),TS(7) |
| L1844375-05E1 | Glass 250ml unpreserved split | A | NA | | 3.5 | Y | Absent | | NYTCL-8270(14),TS(7) |
| L1844375-05F | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | SUB-TPH310(28) |
| L1844375-06A | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-06B | Glass 60mL/2oz unpreserved | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-07A | Vial MeOH preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1844375-07B | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-07C | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-07D | Plastic 2oz unpreserved for TS | A | NA | | 3.5 | Y | Absent | | PB-TI(180) |
| L1844375-07E | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8270(14),TS(7) |
| L1844375-07F | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | SUB-TPH310(28) |
| L1844375-08A | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-08B | Glass 60mL/2oz unpreserved | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-09A | Vial MeOH preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1844375-09B | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-09C | Vial water preserved | A | NA | | 3.5 | Y | Absent | 31-OCT-18 14:19 | NYTCL-8260HLW-R2(14) |
| L1844375-09D | Plastic 2oz unpreserved for TS | A | NA | | 3.5 | Y | Absent | | TS(7) |
| L1844375-09E | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L1844375-09F | Glass 120ml/4oz unpreserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8270(14) |
| L1844375-10A | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L1844375-10B | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** ROME-TURNEY
**Project Number:** 18-046

**Lab Number:** L1844375
**Report Date:** 11/09/18

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1844375-10C | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L1844375-10D | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | SUB-TPH310.13() |
| L1844375-10E | Amber 250ml unpreserved | A | 7 | 7 | 3.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L1844375-10F | Amber 250ml unpreserved | A | 7 | 7 | 3.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L1844375-11A | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L1844375-11B | Vial HCl preserved | A | NA | | 3.5 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1844375 |
| **Project Number:** | 18-046 | **Report Date:** | 11/09/18 |

## GLOSSARY

### *Acronyms*

| | |
|---|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

### *Footnotes*

| | |
|---|---|
| 1 | - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method. |

### *Terms*

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1844375 |
| **Project Number:** | 18-046 | **Report Date:** | 11/09/18 |

***Data Qualifiers***

**A** - Spectra identified as "Aldol Condensation Product".

**B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

**E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

**H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**I** - The lower value for the two columns has been reported due to obvious interference.

**M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

**NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

**P** - The RPD between the results for the two columns exceeds the method-specified criteria.

**Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

**J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | ROME-TURNEY | **Lab Number:** | L1844375 |
| **Project Number:** | 18-046 | **Report Date:** | 11/09/18 |

## REFERENCES


1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.


## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

# Certification Information

**The following analytes are not included in our Primary NELAP Scope of Accreditation:**

**Westborough Facility**
**EPA 624/624.1:** m/p-xylene, o-xylene
**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

**EPA 6860:** SCM: Perchlorate

**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

**Mansfield Facility**
**SM 2540D:** TSS
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
**Biological Tissue Matrix:** EPA 3050B

**The following analytes are included in our Massachusetts DEP Scope of Accreditation**

**Westborough Facility:**

***Drinking Water***
**EPA 300.0**: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
**EPA 332**: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
**Microbiology**: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

***Non-Potable Water***
**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
**EPA 624.1**: Volatile Halocarbons & Aromatics,
**EPA 608.3**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
**EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

**Mansfield Facility:**

***Drinking Water***
**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
**EPA 522.**

***Non-Potable Water***
**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
**EPA 245.1** Hg.
**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 10/30/18

ALPHA Job #: L1844375

## Client Information
Client: AECC
Address: 6308 Fly Rd
East Syracuse, NY 13057
Phone: (315) 432-9400
Fax:
Email: dbrantner@aeccgroup.com

## Project Information
Project Name: Rome - Turney
Project Location: 109 Canal St, Rome, NY
Project #: 18-0460
(Use Project name as Project #) ☐
Project Manager: Nevin Bradford / James Saxton
ALPHAQuote #:

## Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

## Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Billing Information
☐ Same as Client Info
PO #

## Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

*Please analyze for lead from SVOCs jar.

**Please specify Metals or TAL.**

**ANALYSIS**

**Sample Filtration**
☐ Done
☐ Lab to do
**Preservation**
☐ Lab to do
*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | 8260 VOCs TCL | 8270 SVOCs TCL | Metals TAL | 310.13 TPHs | Metals *Lead only* | Total Solids | | | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L1844375-01 | SB-30 | 10/30/18 | 0928 | Soil | DB | | | X | | | | | | | 1 |
| -02 | SB-31S | 10/30/18 | 0933 | Soil | DB | | | X | | | | | | | 1 |
| -03 | SB-31D | 10/30/18 | 0945 | Soil | DB | X | X | | X | X | X | | | | 6 |
| -04 | SB-32S | 10/30/18 | 1000 | Soil | DB | | | X | | | | | | | 1 |
| -05 | SB-32D | 10/30/18 | 1020 | Soil | DB | X | X | | X | X | X | | | | 6 |
| -06 | SB-33 | 10/30/18 | 1032 | Soil | DB | | | X | | | | | | | 1 |
| -07 | SB-34 | 10/30/18 | 1100 | Soil | DB | X | X | | X | X | X | | | | 6 |
| ~~-05~~ | ~~[illegible]~~ | | | | | | | | | | | | | DB | ~~1~~ |
| -08 | SB-35 | 10/30/18 | 1120 | Soil | DB | | | X | | | | | | | 1 |
| -09 | SB-36 | 10/30/18 | 1155 | Soil | DB | X | X | X | | | X | | | | 6 |
| Container Type | | | | | | V | A | A | A | A | P | | | | |
| Preservative | | | | | | F | A | A | A | A | A | | | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 10/30/18 1704 | [signature] | 10/30/18 17[illegible] |
| [signature] | 10/30/18 17[illegible] | [signature] | 10/30/18 2345 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 10/30/18

ALPHA Job #: L1844375

## Client Information

Client: AECC
Address: 6308 Fly Rd
East Syracuse, NY 13057
Phone: (315) 432-9400
Fax:
Email: dbrantner@aecgroup.com

## Project Information

Project Name: Rome-Turney
Project Location: 109 Canal St, Rome, NY
Project #: 18-046
(Use Project name as Project #) ☐
Project Manager: Nevin Bradford / James Sexton
ALPHAQuote #:

## Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

## Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Billing Information

☐ Same as Client Info
PO #

## Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | 8260 VOCs TCL | 8270 SVOCs TCL | Pesticides | 310.13 TPHs | | | | | Total # Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44375 -10 | TW-11 | 10/30/18 | 1436 | Aqueous | DB | X | X | | X | | | | | 6 |
| -11 | Trip Blank | - | - | - | - | X | | | | | | | | 2 |
| | | | | | | | | | | | | | | |
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**Sample Filtration**
☐ Done
☐ Lab to do
**Preservation**
☐ Lab to do
*(Please Specify below)*

**Sample Specific Comments**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Container Type | V | A | | V | | | | |
| Preservative | B | A | | B | | | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Drew Brantner | 10/30/18 1704 | Drew Brantner ASAP | 10/30/18 2345 |
| | | | |
| | | | |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL
World Class Chemistry

## Subcontract Chain of Custody

Paradigm
179 Lake Avenue
Rochester, NY 14608

**Alpha Job Number**
L1844375

| Client Information | Project Information | Regulatory Requirements/Report Limits |
|---|---|---|
| Client: Alpha Analytical Labs<br>Address: Eight Walkup Drive<br>Westborough, MA 01581-1019<br><br>Phone: 716-427-5223<br>Email: cfox@alphalab.com | Project Location: NY<br>Project Manager: Candace Fox<br>**Turnaround & Deliverables Information**<br>Due Date:<br>Deliverables: | State/Federal Program:<br>Regulatory Criteria: |

**Project Specific Requirements and/or Report Requirements**

Reference following Alpha Job Number on final report/deliverables: L1844375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Need TPH310.13

| Lab ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Batch QC |
|---|---|---|---|---|---|
| | SB-31D | 10-30-18 09:45 | SOIL | TPH 310 | |
| | SB-32D | 10-30-18 10:20 | SOIL | TPH 310 | |
| | SB-34 | 10-30-18 11:00 | SOIL | TPH 310 | |
| | TW-11 | 10-30-18 14:36 | WATER | TPH310.13 | |

| | Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|---|
| | | 11/1/18 | | |
| | | | | |
| | | | | |
| Form No: AL_subcoc | | | | |

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

*Analytical Report For*

# Alpha Analytical

*For Lab Project ID*

Serial_No:11091818:15

**185138**

*Referencing*

L1844375

*Prepared*

Friday, November 9, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

**Lab Project ID:** 185138

**Client:** **Alpha Analytical**

**Project Reference:** L1844375

| | | | |
|---|---|---|---|
| **Sample Identifier:** | SB-31D | | |
| **Lab Sample ID:** | 185138-01 | **Date Sampled:** | 10/30/2018 |
| **Matrix:** | Soil | **Date Received:** | 11/5/2018 |

## *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Medium weight PHC as Diesel | **1770** | mg/Kg | | 11/7/2018 12:05 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
*ELAP does not offer this test for approval as part of their laboratory certification program.*

PARADIGM ENVIRONMENTAL SERVICES, INC.

**Lab Project ID:** 185138

**Client:** **Alpha Analytical**

**Project Reference:** L1844375

| | | | |
|---|---|---|---|
| **Sample Identifier:** | SB-32D | | |
| **Lab Sample ID:** | 185138-02 | **Date Sampled:** | 10/30/2018 |
| **Matrix:** | Soil | **Date Received:** | 11/5/2018 |

## *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Medium weight PHC as Diesel | **470** | mg/Kg | | 11/7/2018 01:10 |

*Sample chromatogram not an exact match to reference chromatogram. Closest match made.*

**Method Reference(s):** NYSDOH 310.13

**Preparation Date:** 11/6/2018

*ELAP does not offer this test for approval as part of their laboratory certification program.*

PARADIGM ENVIRONMENTAL SERVICES, INC.

**Lab Project ID:** 185138

**Client:** **Alpha Analytical**

**Project Reference:** L1844375

| | | | |
|---|---|---|---|
| **Sample Identifier:** | SB-34 | | |
| **Lab Sample ID:** | 185138-03 | **Date Sampled:** | 10/30/2018 |
| **Matrix:** | Soil | **Date Received:** | 11/5/2018 |

## *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Medium weight PHC as Diesel | **4130** | mg/Kg | | 11/7/2018 12:44 |

*Sample chromatogram not an exact match to reference chromatogram. Closest match made.*

**Method Reference(s):** NYSDOH 310.13

**Preparation Date:** 11/6/2018

*ELAP does not offer this test for approval as part of their laboratory certification program.*

PARADIGM ENVIRONMENTAL SERVICES, INC.

**Lab Project ID:** 185138

**Client:** **Alpha Analytical**

**Project Reference:** L1844375

| | | | |
|---|---|---|---|
| **Sample Identifier:** | TW-11 | | |
| **Lab Sample ID:** | 185138-04 | **Date Sampled:** | 10/30/2018 |
| **Matrix:** | Water | **Date Received:** | 11/5/2018 |

## *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Medium weight PHC as Diesel | **20200000** | ug/L | | 11/7/2018 13:22 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
*ELAP does not offer this test for approval as part of their laboratory certification program.*

PARADIGM
ENVIRONMENTAL SERVICES, INC.

## *Method Blank Report*

**Client:** **Alpha Analytical**

**Project Reference:** L1844375

**Lab Project ID:** 185138

**Matrix:** Soil

Serial_No:11091818:15

### *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Petroleum Hydrocarbon | <6.94 | mg/Kg | | 11/6/2018 23:15 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
**QC Batch ID:** QC181106PHCS
**QC Number:** 1

*ELAP does not offer this test for approval as part of their laboratory certification program.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

## *QC Report for Laboratory Control Sample*

**Client:** Alpha Analytical
**Project Reference:** L1844375
**Lab Project ID:** 185138
**Matrix:** Soil

### *Petroleum Hydrocarbons by GC*

| Analyte | Spike Added | Spike Units | LCS Result | LCS % Recovery | % Rec Limits | LCS Outliers | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Petroleum Hydrocarbon | 52.6 | mg/Kg | 26.0 | 49.4 | 10 - 140 | | 11/6/2018 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
**QC Number:** 1
**QC Batch ID:** QC181106PHCS

*ELAP does not offer this test for approval as part of their laboratory certification program.*





This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

*Report Prepared Friday, November 09, 2018*

PARADIGM
ENVIRONMENTAL SERVICES, INC.

## *Method Blank Report*

**Client:** Alpha Analytical
**Project Reference:** L1844375
**Lab Project ID:** 185138
**Matrix:** Water

Serial_No:11091818:15

### *Petroleum Hydrocarbons by GC*

| Analyte | Result | Units | Qualifier | Date Analyzed |
|---|---|---|---|---|
| Petroleum Hydrocarbon | <250 | ug/L | | 11/6/2018 21:20 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
**QC Batch ID:** QC181106PHCW
**QC Number:** 1

*ELAP does not offer this test for approval as part of their laboratory certification program.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

## *QC Report for Laboratory Control Sample*

**Client:** Alpha Analytical
**Project Reference:** L1844375
**Lab Project ID:** 185138
**Matrix:** Water

### *Petroleum Hydrocarbons by GC*

| Analyte | Spike Added | Spike Units | LCS Result | LCS % Recovery | % Rec Limits | LCS Outliers | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Petroleum Hydrocarbon | 2000 | ug/L | 1580 | 79.0 | 10 - 147 | | 11/6/2018 |

**Method Reference(s):** NYSDOH 310.13
**Preparation Date:** 11/6/2018
**QC Number:** 1
**QC Batch ID:** QC181106PHCW

*ELAP does not offer this test for approval as part of their laboratory certification program.*





This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

*Report Prepared Friday, November 09, 2018*

PARADIGM ENVIRONMENTAL SERVICES, INC.

# Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

*“<” = Analyzed for but not detected at or above the quantitation limit.*
*“E” = Result has been estimated, calibration limit exceeded.*
*“Z” = See case narrative.*
*“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.*
*“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.*
*“B” = Method blank contained trace levels of analyte. Refer to included method blank report.*
*“J” = Result estimated between the quantitation limit and half the quantitation limit.*
*"L" = Laboratory Control Sample recovery outside accepted QC limits.*
*“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.*
*"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.*
*"*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
*"(1)" = Indicates data from primary column used for QC calculation.*
*"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.*
*"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.*

# GENERAL TERMS AND CONDITIONS
# LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

**Warranty.** Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

**Scope and Compensation.** LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

**Prices.** Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

**Limitations of Liability.** In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

**Hazard Disclosure.** Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

**Sample Handling.** Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

**Legal Responsibility.** LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

**Assignment.** LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

**Force Majeure.** LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

**Law.** This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

1 of 2

185138

ALPHA ANALYTICAL
World Class Chemistry

## Subcontract Chain of Custody

Paradigm
179 Lake Avenue
Rochester, NY 14608

Serial_No:11091818:15

**Alpha Job Number**
L1844375

| Client Information | Project Information | Regulatory Requirements/Report Limits |
|---|---|---|
| Client: Alpha Analytical Labs<br>Address: Eight Walkup Drive<br>Westborough, MA 01581-1019<br><br>Phone: 716-427-5223<br>Email: cfox@alphalab.com | Project Location: NY<br>Project Manager: Candace Fox<br><br>**Turnaround & Deliverables Information**<br>Due Date: 5 Day Turn per CF 09 11/5/18<br>Deliverables: | State/Federal Program:<br>Regulatory Criteria: |

**Project Specific Requirements and/or Report Requirements**

Reference following Alpha Job Number on final report/deliverables: L1844375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Need TPH310.13

| Lab ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Batch QC |
|---|---|---|---|---|---|
| 01 | SB-31D | 10-30-18 09:45 | SOIL | TPH 310 | |
| 02 | SB-32D | 10-30-18 10:20 | SOIL | TPH 310 | |
| 03 | SB-34 | 10-30-18 11:00 | SOIL | TPH 310 | |
| 04 | TW-11 | 10-30-18 14:36 | WATER | TPH310.13 | |

| | Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|---|
| | | 11/1/18 | | |
| | | | | |
| Form No: AL_subcoc | | | 2/2 | 11/5/18 10:42 |

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# Chain of Custody Supplement

**Client:** Alpha Analytical **Completed by:** Glenn Pezzulo

**Lab Project ID:** 185138 **Date:** 11/5/18



## Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

| Condition | NELAC compliance with the sample condition requirements upon receipt: Yes | No | N/A |
|---|---|---|---|
| **Container Type** | X | | |
| Comments | | | |
| *Transferred to method-compliant container* | | | X |
| **Headspace (<1 mL)** | | | X |
| Comments | | | |
| **Preservation** | | X Water | X |
| Comments | Water sample collected in HCl preserved voa vial, ok to proceed with limited volume, incorrect preservation. | | |
| **Chlorine Absent (<0.10 ppm per test strip)** | | | X |
| Comments | | | |
| **Holding Time** | X | | |
| Comments | | | |
| **Temperature** | X | | |
| Comments | 3°C iced | | |
| **Sufficient Sample Quantity** | X | X Water | |
| Comments | | | |