

Orangeburg Commons Site Periodic Review Report

170 Route 303, Orangeburg
Rockland County, New York
NYSDEC BCP Site Number: C344073

Prepared for:
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c/o RD Management Corporation
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For Submittal to:
NYS Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C, Section A
625 Broadway, 11th Floor
Albany, NY 12233-7014

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&



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July 2017

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1.0 EXECUTIVE SUMMARY

On behalf of FB Orangetown, LLC (the Remedial Party), Matthew M. Carroll, P.E. and Tenen Environmental, LLC have prepared this Periodic Review Report (PRR) for the property located at 170 Route 303 in Orangeburg, Rockland County, NY (the Site). The Site, known as Orangeburg Commons, is a 15.8-acre parcel that is bordered by commercial, light industrial, and residential properties and developed with a grocery store and hotel. A Site location map is included as Figure 1 and current Site uses are shown on Figure 2.

This document has been prepared in accordance with the Site Management Plan (SMP) dated October 2013 and approved by the New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Site # C344073, which was executed on November 7, 2011 and last amended April 12, 2012. A Certificate of Completion was issued for the Site on November 26, 2013.

The work completed and reported in this PRR complies with the SMP and includes groundwater sampling; soil vapor, indoor air and ambient air sampling; and, inspections of engineering controls. The Site is currently in compliance with the material elements of the SMP. The remedial program, as detailed in the SMP, continues to be effective.

Based on the approved SMP, the sampling events described in this PRR complete the SMP requirement for a total of eight quarters of groundwater sampling with low or asymptotic concentrations at acceptable levels and three years (one event per year) of soil vapor, indoor air and ambient air sampling with no indoor air concerns identified. The requirements for discontinuing sampling have been met.

2.0 BACKGROUND AND SETTING

This section includes a description of the Site, and summaries of Site characteristics, historic operations and regulatory interactions.

2.1 Site Description

Orangeburg Commons is an irregularly shaped parcel of approximately 15.8 acres located on State Route 303 in Orangeburg, a hamlet located in the Town of Orangetown, Rockland County, New York. The Site is used for mixed-use commercial development and is occupied by a Stop and Shop supermarket and Residence Inn extended stay hotel. The Site is zoned commercial and light industrial. The surrounding area is used for commercial, light industrial and residential purposes.

The Site is identified as Block 754, Lot 74.15-1-21 on Rockland County Tax Map #74.15. The Site is bounded by Stevens Way followed by a Lowe's Home Improvement Store to the north, wooded land and the Palisades Interstate Parkway to the south, New York State Route 303 followed by commercial properties to the east, and Greenbush Road and a commercial/residential lot followed by a vacant lot and railroad tracks to the west. A Site Location Map is included as Figure 1.

2.2 Geological Setting

Rockland County is a suburban county located approximately 15 miles northwest of New York City. According to the Nyack US Topographic Map (2013), the Site is located approximately 80 feet above the National Geodetic Vertical Datum of 1929 (an approximation of mean sea level). Elevations at the Site and surrounding area range from approximately 65 to 100 feet above the National Geodetic Vertical Datum of 1929. (Environmental Easement, FB Orangetown LLC, September 30, 2013). The closest natural water body is a small, unnamed Class C stream located across Route 303. The stream drains into the Sparkill Creek, located approximately 0.3 miles east of the Site. A constructed stormwater detention basin, which contains surface water, is located on-Site along Route 303. Federally designated wetlands are present along the southern portion of the Site.

Borings completed prior to redevelopment to evaluate subsurface conditions identified the top five to 15 feet of material over the majority of the Site as a mixture of fill containing topsoil, sand and gravel with varying amounts of construction and demolition (C&D) debris, brick, glass fragments and pieces of Orangeburg pipe. The last is a type of pipe constructed of fiber and bituminous pitch. The fill material was underlain by a layer of glacial till containing a low-permeability mixture of reddish brown sand, gravel, silt and clay. Deeper native overburden above the bedrock contained some stratified drift deposits. The depth to bedrock ranges from 35 to 45 feet below grade. Bedrock is characterized as the Brunswick Formation, a sandstone conglomerate. Groundwater exists beneath the Site in three distinct units: a shallow water table at nine to 15 feet below grade within fill material and shallow till sediments; a second groundwater unit in the deep till and stratified drift deposits; and a third unit consisting of a bedrock aquifer. Pre-remedy groundwater flow measurements indicate southeast flow in the

shallow aquifer and groundwater flow to the east in the deep and bedrock aquifers.

Groundwater monitoring wells are shown on Figure 3. The shallow aquifer groundwater flow direction, measured during the most recent April 2017 sampling event, is generally to the east and is shown on Figure 4. The groundwater flow direction in the deeper water bearing units was not measured during this period.

2.3 Historic Operations

The Site was once a portion of the Orangeburg Pipe property, which began manufacturing pipe in the 1890s. The Site was reportedly used primarily for storage, but also for disposal of pipe that did not meet manufacturing specifications. Prior to 1946, the pipe was manufactured by impregnating paper fiber cylinders with coal tar pitch; from 1946 to 1970, a paper/asbestos mixture was used to make the cylinders; and, after 1970, wollastonite (a fibrous magnesium oxide mineral) replaced asbestos in the process. After manufacturing ceased in 1973, most of the manufacturing facility on the northern adjacent property was destroyed by fire, with the remaining structures reportedly demolished, and demolition debris deposited at the Site.

2.4 Regulatory Background

FB Orangetown LLC (FB Orangetown) and the New York State Department of Environmental Conservation (NYSDEC) entered into a Brownfield Cleanup Agreement (BCA) on November 7, 2011, pursuant to which FB Orangetown agreed to investigate, remediate and redevelop a 15.8-acre property known as Orangeburg Commons. The Site was managed in accordance with the BCA, which was most recently amended on April 12, 2012. The Site has been remediated in accordance with the BCA and the NYSDEC-approved Remedial Action Work Plan (RAWP) dated May 18, 2012 prepared by AKRF Engineering, P.C.

After completion of the remedial work described in the RAWP, a Final Engineering Report (FER) was prepared by Landmark Consultants Corporation (Landmark) of Brooklyn, New York and certified by Richard Zaloum, P.E. on November 23, 2013. In order to manage residual contamination at the Site, Landmark prepared a Site Management Plan (SMP) dated October 2013 that was subsequently approved by NYSDEC. The work described in this Annual Environmental Compliance Report was completed in accordance with the approved SMP.

3.0 ENGINEERING AND INSTITUTIONAL CONTROLS

Several engineering controls (ECs) and institutional controls (ICs) are present at the Site to protect human health and the environment. A description of these controls and the current status of each are provided below. The Institutional and Engineering Controls Certification Form is included in Appendix 1.

3.1 Engineering Controls

3.1.1 Soil Cover System

A variety of soil cover systems were implemented throughout the entire footprint of the Site, ensuring that the entire property is capped. The soil cover systems are comprised of a minimum of 24 inches of clean soil, plastic liners, asphalt pavement, concrete sidewalks and concrete building slabs.

Capping of the Site in the developed areas includes buildings, asphalt pavement and concrete sidewalks. The impacted residual soil below the buildings was excavated to depths between 5.5 and 22 feet below grade and the excavations backfilled with clean fill. In order to create a safe workspace for Site workers, each area was eventually capped with a layer of high-density polyethylene (HDPE), a gravel layer and concrete slab. For landscaped areas greater than 2,500 square feet, inclusive of the stormwater basins, the areas with residual soil impacts were capped with an HDPE liner and covered with a minimum two feet of clean fill. For landscaped areas less than 2,500 square feet, including the islands in the parking lot, the areas with residual soil impacts were capped with two feet of clean fill overlying a demarcation layer. Utility trenches installed in the fill were over-excavated, and then lined with a geotextile and gravel. After the utilities were installed, clean fill was placed in the trenches prior to placement of the appropriate cover material (asphalt, clean fill, etc.). Clean fill is defined as soil which has been tested and approved for use as cover material in accordance with the RAWP.

Current status: The soil cover systems remain in place with no observed breach. The composite cover system is a permanent control and the quality and integrity of this system has been inspected annually as per the SMP. An annual inspection checklist is included in Appendix 1.

3.1.2 Sub-Slab Depressurization Systems (SSDSs)

A passive sub-slab depressurization system (SSDS) has been installed beneath each building on the property in conjunction with a vapor barrier in order to prevent impacted soil vapor from entering the buildings in the future. The SSDSs will continue to operate in the passive mode for the life of the buildings unless there is a clear demonstration that the subsurface soil vapor conditions present a potential impact to indoor air quality. In the event of a potential impact to indoor air quality, the SSDS would be converted to an active system. There were no findings during this review period that indicate the system(s) should be converted to an active system. Additional information on the SSDSs is included in Appendices O and Q of the SMP.

Collection of sub-slab soil vapor, indoor air and ambient air samples was most-recently

completed in April 2016. Sub-slab soil vapor samples were collected from permanent sample ports installed through the floor of the buildings. Indoor air samples were co-located with sub-slab soil vapor locations within the Residence Inn hotel and at one location within the Stop and Shop supermarket. The results of the sampling are discussed in Section 4.0.

Current status: The passive SSDSs are functioning as designed. An annual inspection checklist is included in Appendix 1.

3.1.3 Vapor Mitigation System

A vapor barrier has been installed above each SSDS and below each of the building slabs to mitigate potential soil vapor intrusion. The vapor barrier is a permanent engineering control. The design for the vapor mitigation system is provided in Appendix N of the SMP.

Current status: No compromise to the structural integrity of the building foundations has been noted during annual inspections. An annual inspection checklist is included in Appendix 1.

3.2 Institutional Controls

3.2.1 Compliance with SMP

The following ICs are required to document compliance with the SMP:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in the SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor and other environmental or public health monitoring must be performed as defined in the SMP; and,
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

Current status: The Environmental Easement remains in place. All systems are effective and currently operational. ICs requiring monitoring of groundwater, soil vapor and indoor air and inspections of the engineering controls have been completed with the acceptance of this report. The required monitoring and inspections have been completed as required in the SMP.

3.2.2 Use Restrictions

The following use restrictions were placed on the property, in accordance with the Environmental Easement and SMP:

- The property may only be used for commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed;

- The property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional assessment and, if necessary, remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb residual contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed anywhere on the entire property, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The Site owner, including any subsequent site owner, will submit to NYSDEC annually a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP; and,
- NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually unless and until an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Current status: The Site is used in accordance with all restrictions. Current site uses are shown on Figure 2. A statement regarding continued maintenance of any and all controls is included in Appendix 1.

4.0 INDOOR AIR/SOIL VAPOR SAMPLING

Indoor air, soil vapor and ambient (outdoor) air sampling was completed on April 13, 2016. Samples were collected for analysis of TO-15 volatile organic compounds (VOCs) and methane, in accordance with the Quality Assurance Project Plan (QAPP) included in the SMP. The concentrations of VOCs are included in Table 1. A total of five sub-slab soil vapor points, three indoor air and one ambient air sample were collected at the Site. Indoor air samples were co-located with sub-slab soil vapor locations in both the Residence Inn and Stop-and-Shop locations. One outdoor ambient air sample (AA1) was collected upwind of the Site. Soil vapor, indoor air and ambient air sample locations are shown on Figure 5.

Compounds with an associated NYSDOH Air Guidance Value (AGV) were not detected in indoor air at concentrations above their respective AGVs.

Compounds with an associated NYSDOH Decision Matrix (May 2017) were evaluated using their respective sub-slab soil vapor and indoor air concentrations. All compounds on the NYSDOH Decision Matrices resulted in a No Further Action determination.

Several compounds associated with the construction and installation of the SSDS components were detected in the sub-slab soil vapor samples. In the sub-slab soil vapor at the Residence Inn, the concentration of tetrahydrofuran, a common constituent of PVC pipe glue, was 1,230 ug/m³; however, the duplicate sample yielded a concentration of 279 ug/m³. Sub-slab concentrations of tetrahydrofuran in the Residence Inn have increased since the April 2015 sampling event from a maximum level of 510 ug/m³. The 2016 concentration is, however, lower than the maximum level of 3,270 ug/m³ observed in in April 2014. The maximum concentration of isopropanol in the Residence Inn was 885 ug/m³, higher than the previous April 2015 sampling event maximum concentration of 300 ug/m³.

Volatile organic compounds were detected in the indoor air samples. However, the majority of the detected compounds were within typical background levels of most homes and businesses. Ethanol was detected in indoor air at levels ranging from 577 ug/m³ in Stop and Shop to 684 ug/m³ in the Residence Inn. Corresponding sub-slab concentrations of ethanol were lower than the indoor air concentrations and lower than the April 2015 detected sub-slab detection concentrations.

A data usability summary report (DUSR) is being prepared by Geosyntec Consultants, Inc. (Geosyntec) of Mansfield, MA. When available, the DUSR will be provided under separate cover.

Evacuation plans required by Section 2.5.3.3 of the approved SMP have been completed; no changes have been made to the plans included in Appendix 4 of the previous annual report.

5.0 GROUNDWATER SAMPLING

In April 2017, the final round of groundwater sampling was completed at the Site in accordance with the SMP requirement for baseline and quarterly sampling events for a period of eight

quarters. The methodology and findings from the quarterly sampling event are included below, with a discussion of historic groundwater concentration trends.

5.1 2017 Groundwater Sampling

5.1.1 Methodology

Seven groundwater monitoring wells (MW-3R, MW-2R-2, MW-6R, MW-7R-2, MW-8R, MW-12, MW-13) were sampled in accordance with the SMP. Samples were collected for analysis of VOCs and semivolatile organic compounds (SVOCs), in accordance with the Quality Assurance Project Plan (QAPP) included in the SMP. Groundwater monitoring was conducted on the following date: April 12, 2017.

The monitoring well network consisted of existing wells in areas where historic groundwater concentrations exceeded the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Water Quality Standards and Guidance Values (Class GA Standards), and locations to assess groundwater quality at the downgradient and upgradient property boundaries. The monitoring well locations are shown on Figure 3.

As required by the SMP, the following procedure was implemented during each sampling event:

- Depth-to-water measurements were obtained from each well prior to sample collection.
- The equivalent of three well volumes of water was removed from each well prior to sampling.
- Low-flow sampling techniques were implemented for sample collection.
- Field instrumentation was employed to measure water temperature, pH, and turbidity at each sampled well.
- Monitoring of indicator parameters was employed in order to stabilize parameters before sample collection.
- All groundwater samples were placed in 40-milliliter vials provided by the laboratory. All sample containers were appropriately labeled and closed with no trapped air.
- Chain-of-custody documents were completed before shipment. The samples were placed in ice and secured in a cooler during shipment to the laboratory.
- All groundwater samples were analyzed at Alpha Analytical, Inc. (Alpha) for volatile organic compounds (VOCs) by EPA Method 8260 and semivolatile organic compounds (SVOCs) by EPA Method 8270. Alpha is certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) as LABID 11148.

Groundwater results were compared to the Class GA Standards. The Class GA Standards represent levels that are protective of the groundwater as a source of drinking water; however, drinking water at the Site is provided by an upstate New York municipal system and, based on the lithology, it is not likely that the shallow groundwater recharges the underlying low permeability water bearing unit. Specifics regarding sampling protocol can be found in the SMP.

A summary of groundwater analytical results for the April 2017 sampling event is included on

Figure 6. Purge logs, including measured field parameters and groundwater elevations, are included in Appendix 2. The concentrations of VOCs and SVOCs in groundwater are provided in Tables 2 and 3, respectively. Laboratory deliverables are included in Appendix 5. A data usability summary report (DUSR) for the April 2017 sampling is being prepared and will be provided when completed.

Investigation-derived waste (IDW) has been disposed off-site. The IDW disposal manifests for the most recent sampling event will be provided under separate cover.

5.1.2 Findings

April 2017 Sampling Event

Groundwater samples were collected from monitoring wells MW-2R-2, MW-3R, MW-6R, MW-7R-2, MW-8R, MW-12 and MW-13 for analysis of VOCs and SVOCs. Quality assurance/quality control samples were collected in accordance with the QAPP.

The groundwater indicator parameters could not be stabilized in well MW-13 due to low recharge, and a two-inch bailer was used to collect samples. A sheen was observed in the sample collected at MW-6R. In monitoring well MW-2R-2, odor and globules of NAPL were observed during sampling. No measurable thickness of NAPL was present. Headspace readings recorded with a photoionization detector (PID) ranged from 0.0 parts per million (ppm) to 22.3 ppm (at MW-2R-2).

In the VOC scan, naphthalene was identified at concentrations of 3,200 ug/l (MW-2R-2), and 2,400 ug/l (MW-8R), both above the Class GA Standard of 10 ug/l. In the SVOC scan, naphthalene was identified at concentrations of 1,600 ug/l (MW-2R-2) and 870 ug/l (MW-8R), both above the Class GA Standard of 10 ug/l.

Consistent with previous sampling events, several polycyclic aromatic hydrocarbons (PAHs) and petroleum-related SVOCs were identified in Site groundwater at levels above their respective Class GA Standards including the following: acenaphthene, naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluorene, phenanthrene, and indeno(1,2,3-cd)pyrene. The presence naphthalene and other PAHs is consistent with the documented historical use of the Site.

Groundwater Quality Trends

VOCs. One VOC, naphthalene, was detected at a concentration above the Class GA Standard in April 2017, consistent with the results from prior rounds of sampling since March 2014. Prior to March 2016, naphthalene was detected above the Class GA standard in wells MW-2R-2 and MW-8R; in the March 2016 event, naphthalene was also detected slightly above the Class GA Standard in MW-7R-2. Naphthalene concentrations identified in April 2017 were consistent with those identified in the two previous sampling events. Although naphthalene concentrations in MW-2R-2 and MW-8R have increased in the last three sampling events, these increases are

within the same order of magnitude and likely reflect lowered groundwater elevations due to a protracted period of below average precipitation.

SVOCs. Groundwater samples from all Site monitoring wells have consistently contained SVOCs associated with coal tar materials at concentrations above the Class GA Standards. Concentration trends for all compounds detected above the Class GA Standard are included in Appendix 3 and indicate the continued presence of residual SVOC impacts in groundwater.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Engineering and Institutional Controls

An Institutional and Engineering Controls Certification Form and an annual inspection checklist are included in Appendix 1.

Based on sampling results detailed in Sections 4 and 5, residual coal tar constituents continue to impact soil vapor and groundwater. The composite cover system and vapor mitigation system are functioning as designed.

The composite cover system remains in place with no observed breaches or excavation below the cap. The vapor mitigation system (passive SSDSs) is in working condition with no observations of compromised structural integrity.

6.2 Soil Vapor and Indoor Air Sampling

Based on sampling results detailed in Sections 4, low levels of residual impacts continue to be present in the soil vapor. The residual sub-slab soil vapor concentrations and compounds associated with the system construction and installation do not appear to be affecting the indoor air quality. Based on the NYSDOH Decision Matrices, remediation is not required and, therefore, the system is proposed to remain as a passive system.

The vapor mitigation system is functioning as designed. A total of three years of sampling has been completed, as contemplated in the approved SMP. Indoor air concerns were not identified and no additional sampling is proposed.

6.3 Quarterly Groundwater Monitoring

The most recent groundwater sampling indicated that residual contamination associated with historic operations continues to be present in the groundwater. Globules of NAPL have been identified consistently in well MW-2R-2 and sporadically in well MW-8R; however, no measurable thickness of NAPL is present. All NAPL was removed using a bailer and/or absorbent socks and properly disposed off-site with the IDW.

A total of eight quarters of sampling has been completed, as contemplated in the approved SMP. The detected concentrations are low or have asymptotic concentrations at acceptable levels and no additional sampling is proposed.

6.4 Schedule

As noted above, no additional sampling is proposed. We request that the frequency for PRR submittals be increased to every three years.

7.0 CERTIFICATIONS

I, Matthew Carroll, am a Professional Engineer licensed in the State of New York. I certify that:

1. The discussion and interpretation of the soil vapor, indoor air and groundwater sample analysis results are based on all sampling data collected to-date.
2. The engineering and institutional controls are either unchanged or are compliant with NYSDEC-approved modifications.
3. NYSDEC can access the property.
4. The engineering and institutional controls continue to be protective of human health and the environment and do not constitute a violation or failure to comply with the SMP and subsequent NYSDEC-approved modifications.



Matthew M. Carroll
NYS PE License Number 091629

8.0 REFERENCES

Site Management Plan, NYSDEC BCP Site No. C344073, Landmark Consultants Corporation, October 2013.

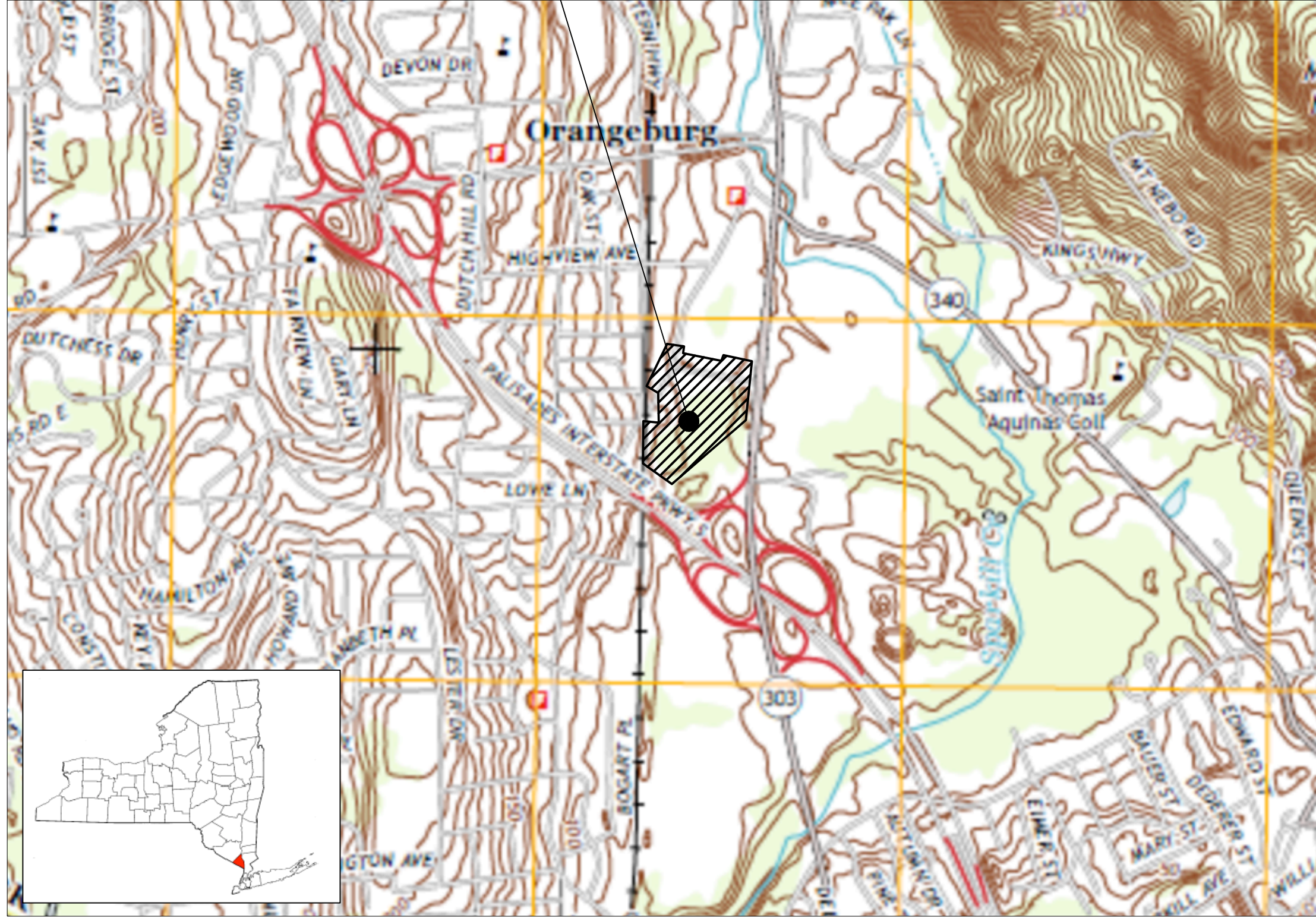
Environmental Easement, FB Orangetown LLC, September 30, 2013.

Final Engineering Report, NYSDEC BCP Site No. C344073, Landmark Consultants Corporation, October 2013.

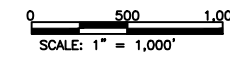
Figures



SITE



Re: USGS NYACK - NY - NJ - QUADRANGLE, 2013
<http://www.usgs.gov>



CLIENT
ORANBURG COMMONS
 170 ROUTE 303
 TOWN OF ORANGETOWN
 ROCKLAND COUNTY, NY
 10962



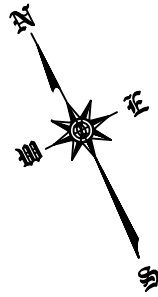
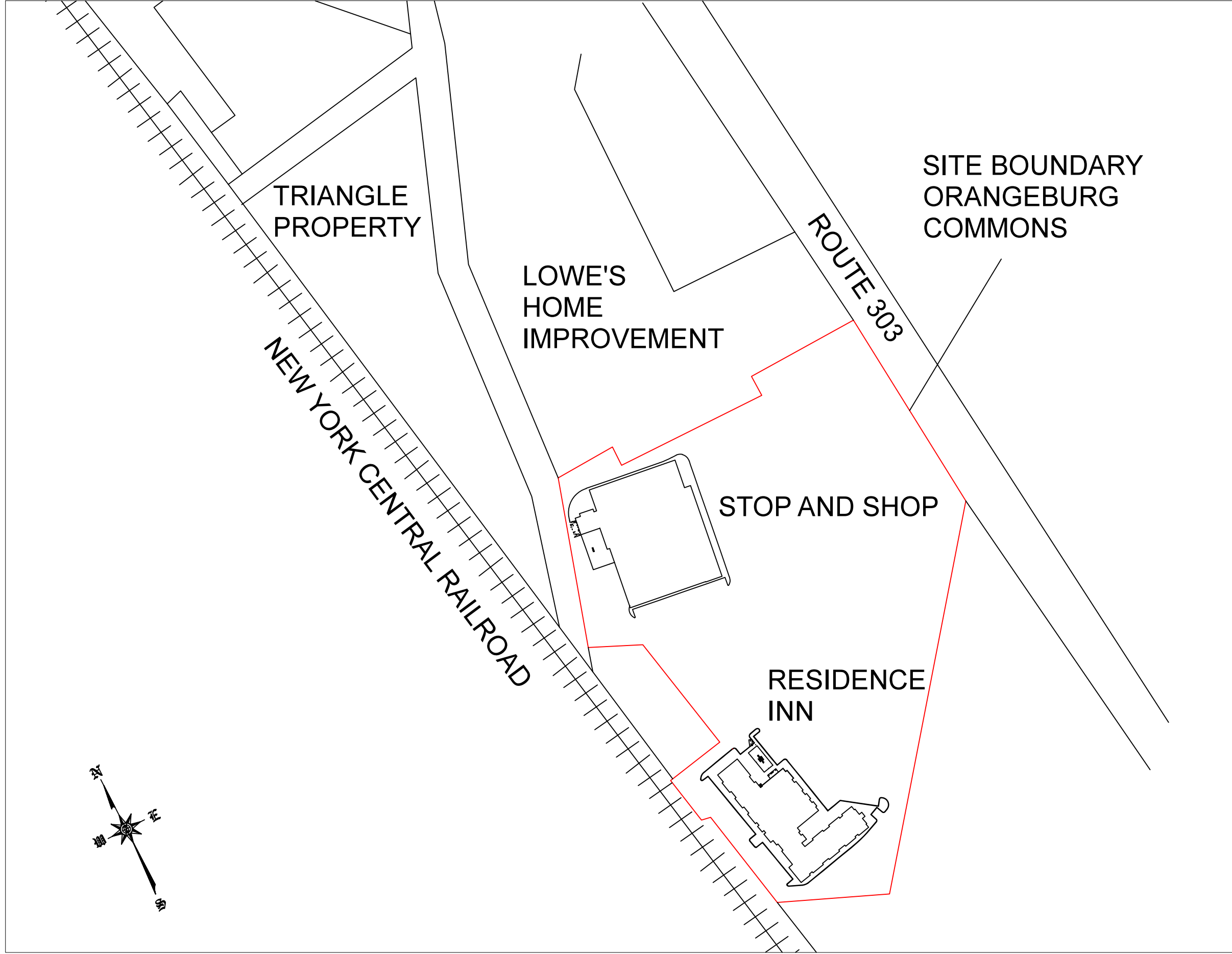
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 CHECKED BY: **MC**

DATE: **JANUARY 2015**
 SCALE: **AS NOTED**

DRAWING TITLE:
FIGURE 1

DRAWING NO.:
SITE LOCATION MAP



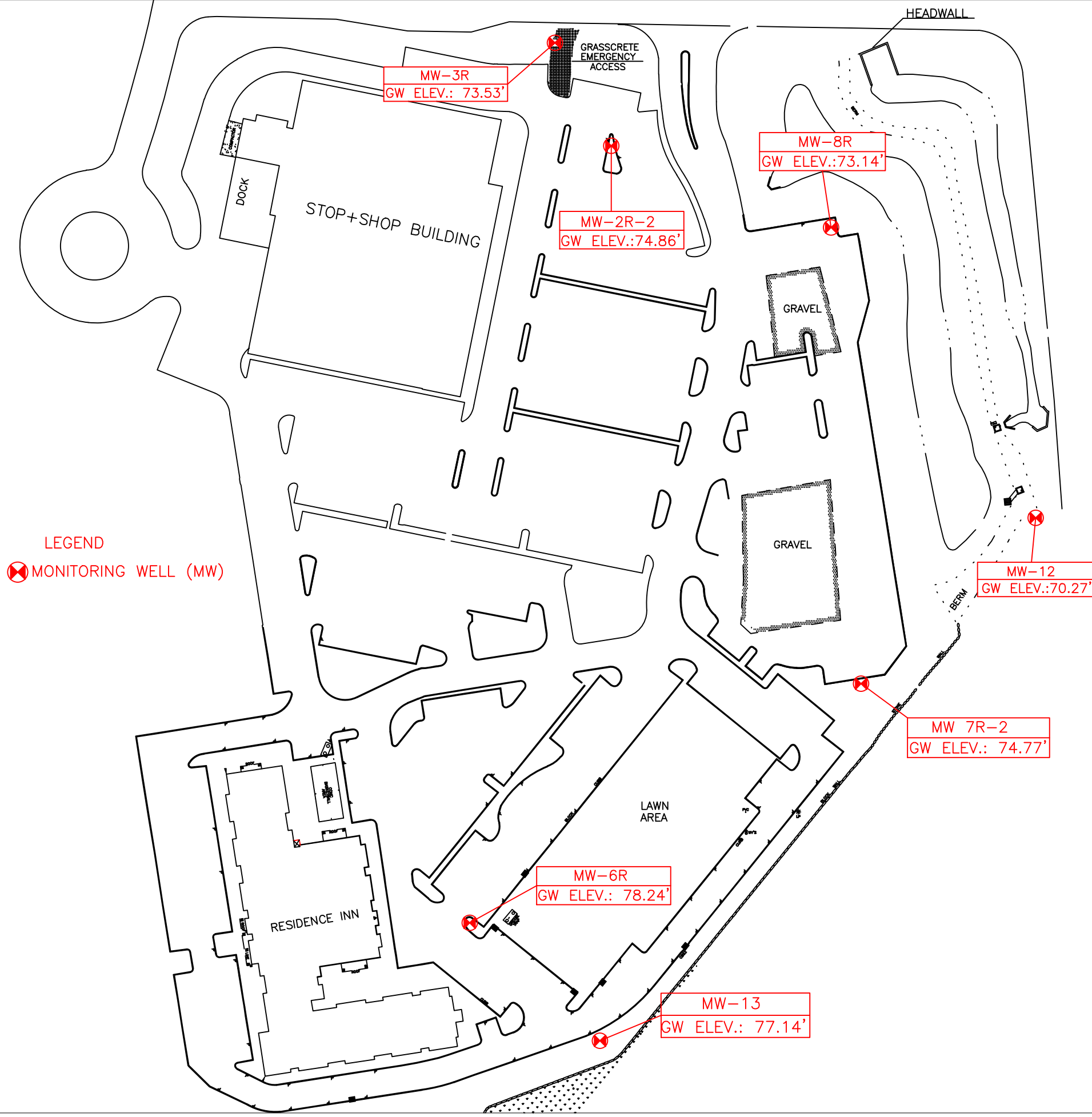
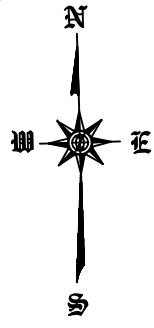
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DRAWN BY	KM
CHECKED BY	MC
DATE	JANUARY 2015
SCALE	1" = 200'

DRAWING TITLE:
FIGURE 2

DRAWING NO.
CURRENT SITE USES



LEGEND
 (Red circle with cross) MONITORING WELL (MW)

MW-3R
 GW ELEV.: 73.53'

MW-2R-2
 GW ELEV.: 74.86'

MW-8R
 GW ELEV.: 73.14'

MW-12
 GW ELEV.: 70.27'

MW 7R-2
 GW ELEV.: 74.77'

MW-6R
 GW ELEV.: 78.24'

MW-13
 GW ELEV.: 77.14'

DRAWING TITLE: FIGURE 3 GROUNDWATER MONITORING WELL LOCATIONS	DRAWN BY: KM	CLIENT: ORANEBURG COMMONS 170 ROUTE 303 TOWN OF ORANGETOWN ROCKLAND COUNTY, NY 10962
	CHECKED BY: MC	CONSULTANT: TENEN ENVIRONMENTAL
DATE: JANUARY 2015	TENEN ENVIRONMENTAL, LLC 121 West 27th Street Suite 1004 New York, NY 10001 O: 646-606-2332 F: 646-606-2379	
SCALE: 1" = 100'		

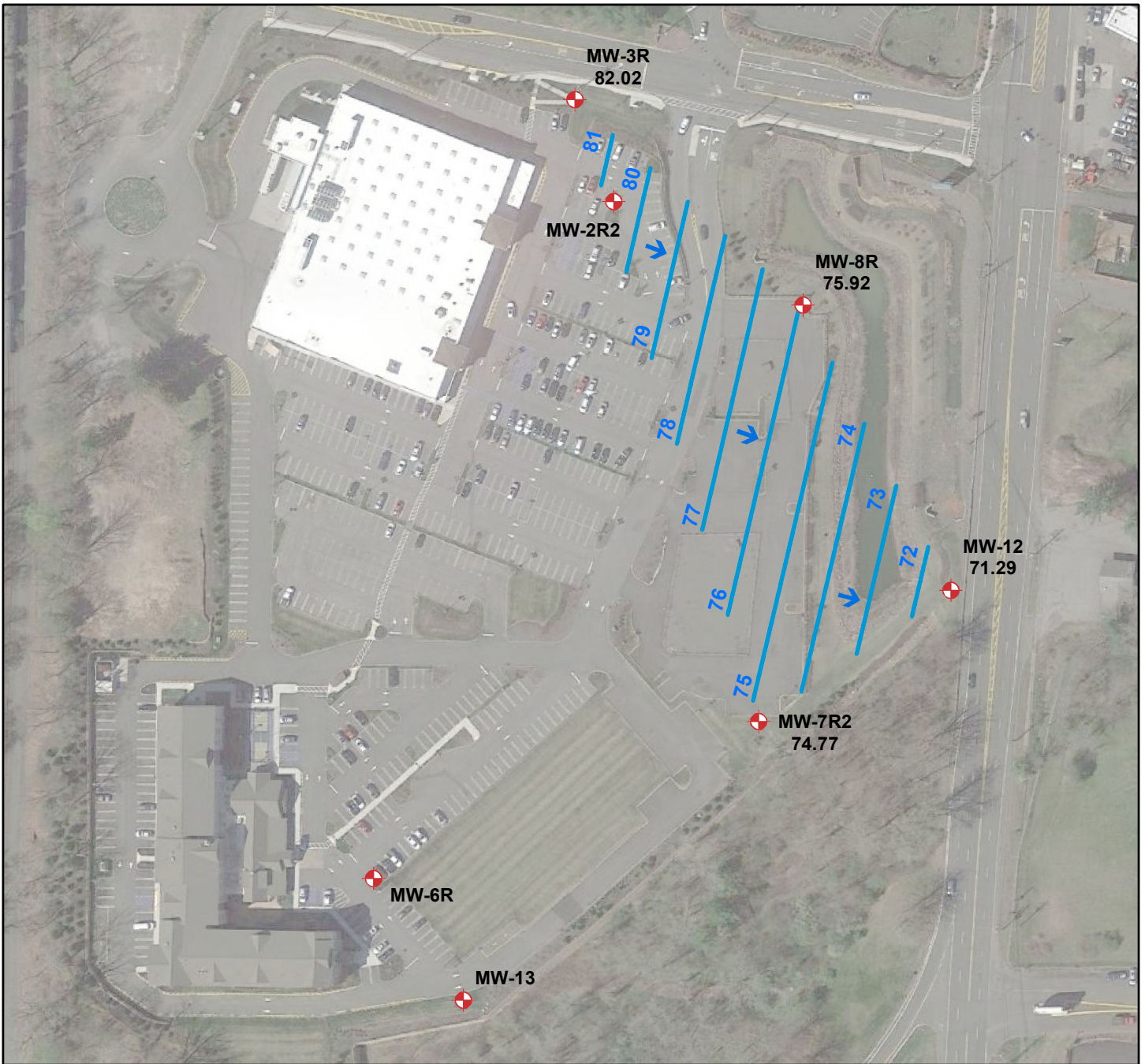
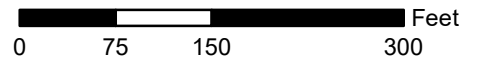






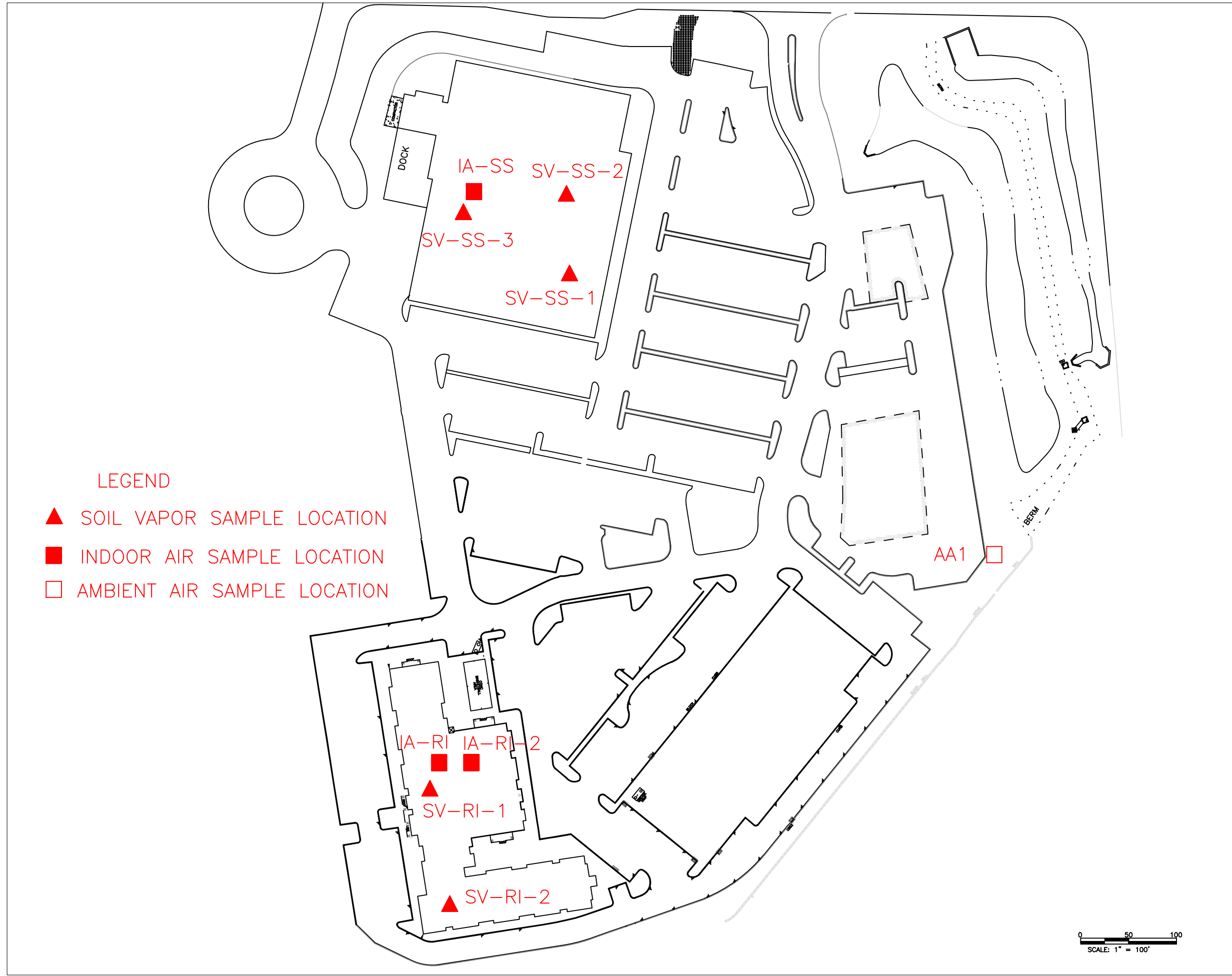
Image Source: Google Earth



Legend

-  Monitoring Well Location
-  Groundwater Flow Direction
-  Groundwater Elevation Contour

Drawing No. Figure 4	Drawn By LM	 Tenen Environmental, LLC 121 West 27th Street, Suite 702 New York, NY 10001 O: (646) 606-2332 F: (646) 606-2379	Orangeburg Commons 170 Route 303 Town of Orangetown Rockland County, NY 10962
	Checked By KM		
Drawing Title Groundwater Flow Direction	Date May 2017		
	Scale As Noted		



LEGEND

- ▲ SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- AMBIENT AIR SAMPLE LOCATION

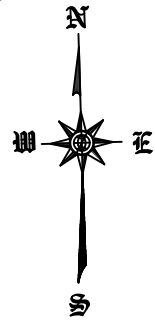
0 50 100
SCALE: 1" = 100'

ORANGEBURG COMMONS
170 ROUTE 303
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NY
10962

TENEN ENVIRONMENTAL

KM	
MC	
MARCH 2016	
AS NOTED	

FIGURE 5
Soil Vapor and Indoor Air
Sampling Locations



LOCATION	NY-AWQS	MW-3R	
SAMPLING DATE		L1711542-02	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Semivolatile Organic Compounds: 8260			
Benzo(a)anthracene	0.002	1.8	
Benzo(a)pyrene	0	1.5	
Benzo(b)fluoranthene	0.002	2.2	
Benzo(k)fluoranthene	0.002	0.78	
Chrysene	0.002	1.8	
Indeno(1,2,3-cd)pyrene	0.002	0.98	

LOCATION	NY-AWQS	MW-2R2	
SAMPLING DATE		L1711542-04	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Volatile Organic Compounds: 8260			
Naphthalene	10	3200	
Semivolatile Organic Compounds: 8260			
Acenaphthene	20	320	
Naphthalene	10	1600	
Benzo(a)anthracene	0.002	2.3	
Benzo(a)pyrene	0	1.8	
Benzo(b)fluoranthene	0.002	2.3	
Benzo(k)fluoranthene	0.002	0.84	J
Chrysene	0.002	2.1	
Fluorene	50	61	
Indeno(1,2,3-cd)pyrene	0.002	1.1	

LOCATION	NY-AWQS	MW-12		MW-12 DUP	
SAMPLING DATE		L1711542-07		L1711542-08	
LAB SAMPLE ID		4/12/2017		4/12/2017	
Units: ug/l		Result	Qual	Result	Qual
Semivolatile Organic Compounds: 8260					
Benzo(a)anthracene	0.002	0.18	J	0.25	
Benzo(a)pyrene	0	0.23		0.28	
Benzo(b)fluoranthene	0.002	0.3		0.42	
Benzo(k)fluoranthene	0.002	0.11	J	0.18	J
Chrysene	0.002	0.18	J	0.26	
Indeno(1,2,3-cd)pyrene	0.002	0.15	J	0.23	

LOCATION	NY-AWQS	MW-8R	
SAMPLING DATE		L1711542-10	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Volatile Organic Compounds: 8260			
Naphthalene	10	2400	
Semivolatile Organic Compounds: 8260			
Acenaphthene	20	360	
Naphthalene	10	870	
Benzo(a)anthracene	0.002	4.2	
Benzo(a)pyrene	0	3.3	
Benzo(b)fluoranthene	0.002	4.3	
Benzo(k)fluoranthene	0.002	1.6	
Chrysene	0.002	3.8	
Fluorene	50	77	
Phenanthrene	50	79	
Indeno(1,2,3-cd)pyrene	0.002	2	

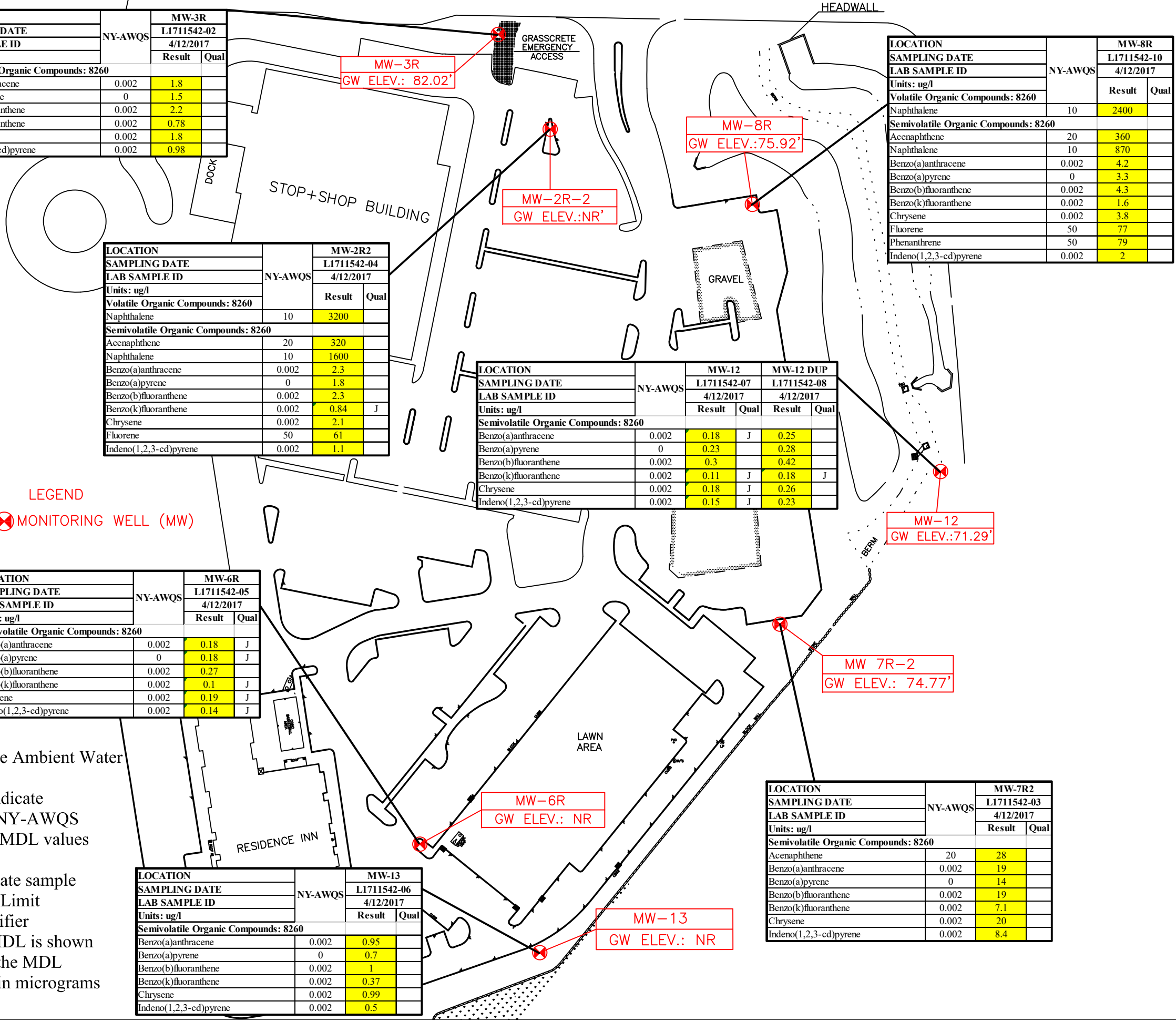
LOCATION	NY-AWQS	MW-6R	
SAMPLING DATE		L1711542-05	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Semivolatile Organic Compounds: 8260			
Benzo(a)anthracene	0.002	0.18	J
Benzo(a)pyrene	0	0.18	J
Benzo(b)fluoranthene	0.002	0.27	J
Benzo(k)fluoranthene	0.002	0.1	J
Chrysene	0.002	0.19	J
Indeno(1,2,3-cd)pyrene	0.002	0.14	J

LOCATION	NY-AWQS	MW-13	
SAMPLING DATE		L1711542-06	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Semivolatile Organic Compounds: 8260			
Benzo(a)anthracene	0.002	0.95	
Benzo(a)pyrene	0	0.7	
Benzo(b)fluoranthene	0.002	1	
Benzo(k)fluoranthene	0.002	0.37	
Chrysene	0.002	0.99	
Indeno(1,2,3-cd)pyrene	0.002	0.5	

LOCATION	NY-AWQS	MW-7R2	
SAMPLING DATE		L1711542-03	
LAB SAMPLE ID		4/12/2017	
Units: ug/l		Result	Qual
Semivolatile Organic Compounds: 8260			
Acenaphthene	20	28	
Benzo(a)anthracene	0.002	19	
Benzo(a)pyrene	0	14	
Benzo(b)fluoranthene	0.002	19	
Benzo(k)fluoranthene	0.002	7.1	
Chrysene	0.002	20	
Indeno(1,2,3-cd)pyrene	0.002	8.4	

LEGEND
 MONITORING WELL (MW)

Notes:
 NY-AWQS = New York State Ambient Water Quality Standard
 Cells highlighted in yellow indicate concentrations above the NY-AWQS
 Cells shaded in grey indicate MDL values above the NY-AWQS
 DUP = designation for duplicate sample
 MDL = Maximum Detection Limit
 Qual = Laboratory Data Qualifier
 For U qualified entries, the MDL is shown
 U = not detected at or above the MDL
 Results and MDL values are in micrograms per liter (µg/L)



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DRAWN BY: LM
 CHECKED BY: KM
 DATE: MAY 2017
 SCALE: AS NOTED

DRAWING TITLE: GROUNDWATER ANALYSIS RESULTS 4/12/2017
 DRAWING NO.: FIGURE 6

Tables

Appendix 1
IC/EC Certifications and Checklists

Appendix 2
Groundwater Sampling Logs

**Appendix 2 - Purge Logs
Orangeburg Commons - Orangeburg, NY**

GROUNDWATER SAMPLING LOG

Site Name	Orangeburg Commons	Date	4/12/17
Well No.	MW3R	Sample ID	MW3R

Well Diameter	2 inches	Depth to Water	5.32 ft-bg
Well Screen Interval	10 ft-bg	TOC Elevation	87.34 USGS NGVD 1929 Datum
Headspace PID	0.0 ppm	GW Elevation	82.02 USGS NGVD 1929 Datum
Weather	Cloudy, 62 degrees F		

Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	16 ft-bg
Final Depth of Tubing	16 ft-bg
Total Volume Purged	5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
1400	14.84	6.43	-76	3.11	31.4	0.72	1.99
1410	14.30	6.37	-89	3.58	6.81	0.31	2.29
1420	14.30	6.37	-89	3.58	6.81	0.37	2.29

Notes: No odor, no sheen.

**Appendix 2 - Purge Logs
Orangeburg Commons - Orangeburg, NY**

GROUNDWATER SAMPLING LOG

Site Name	Orangeburg Commons	Date	4/12/17
Well No.	MW-6R	Sample ID	MW-6R

Well Diameter	2 inches	Depth to Water	12.95	ft-bg
Well Screen Interval	10 ft-bg	TOC Elevation	NR	USGS NGVD 1929 Datum
Headspace PID	0.0 ppm	Elevation	NR	USGS NGVD 1929 Datum
Weather	Cloudy, 65 degrees F			

Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	16.5 ft-bg
Final Depth of Tubing	16.5 ft-bg
Total Volume Purged	1.5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
0835	17	6.04	-52	0.197	0.0	10.02	0.75
0856	15.08	6.23	-81	6.89	0.0	1.35	4.36
0905	14.75	6.17	-89	6.78	0.0	1.27	4.28
0915	14.49	6.17	-91	6.79	0.0	1.10	4.28
0921	14.54	6.17	-91	6.82	0.0	1.07	4.31

Notes: Sheen, no odor.

**Appendix 2 - Purge Logs
Orangeburg Commons - Orangeburg, NY**

GROUNDWATER SAMPLING LOG

Site Name	Orangeburg Commons	Date	4/12/17
Well No.	MW-7R2	Sample ID	MW-7R2

Well Diameter	2 inches	Depth to Water	14.71 ft-bg
Well Screen Interval	10 ft-bg	TOC Elevation	89.48 USGS NGVD 1929 Datum
Headspace PID	0.0 ppm	GW Elevation	74.77 USGS NGVD 1929 Datum
Weather	Cloudy, 62 degrees F		

Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	16.5 ft-bg
Final Depth of Tubing	16.5 ft-bg
Total Volume Purged	5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
0858	13.68	6.11	-62	1.33	141.0	2.54	0.85
0908	13.25	6.12	-72	1.61	109.0	1.09	1.04
0918	13.22	6.15	-80	1.73	89.0	0.75	1.11
0928	13.2	6.23	-85	1.77	81.1	0.64	1.13
0938	13.2	6.17	-85	1.77	83.5	0.59	1.13
0948	13.20	6.17	-85	1.77	83.5	0.59	1.13

Notes:

**Appendix 2 - Purge Logs
Orangeburg Commons - Orangeburg, NY**

GROUNDWATER SAMPLING LOG

Site Name	Orangeburg Commons	Date	4/12/17
Well No.	MW-8R	Sample ID	MW-8R

Well Diameter	2 inches	Depth to Water	10.4 ft-bg
Well Screen Interval	10 ft-bg	TOC Elevation	86.317 USGS NGVD 1929 Datum
Headspace PID	0.0 ppm	Elevation	75.917 USGS NGVD 1929 Datum
Weather	Cloudy, 62 Degrees F		

Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	15 ft-bg
Final Depth of Tubing	15 ft-bg
Total Volume Purged	3 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
1519	14.30	6.37	-89	3.58	6.81	0.31	2.29
1528	15.3	6.37	-89	3.58	6.81	0.31	2.29
1535	17.33	6.39	-81	4.50	6.81	0.27	2.88
1547	17.36	6.38	-81	4.20	6.81	0.23	2.69
1557	17.35	6.36	-80	4.03	6.81	0.21	2.88
1607	17.25	6.36	-79	3.91	6.81	0.20	2.50
1616	17.38	6.36	-79	3.81	6.81	0.19	2.44

Notes:

**Appendix 2 - Purge Logs
Orangeburg Commons - Orangeburg, NY**

GROUNDWATER SAMPLING LOG

Site Name	Orangeburg Commons	Date	4/12/17
Well No.	MW-12	Sample ID	MW-12

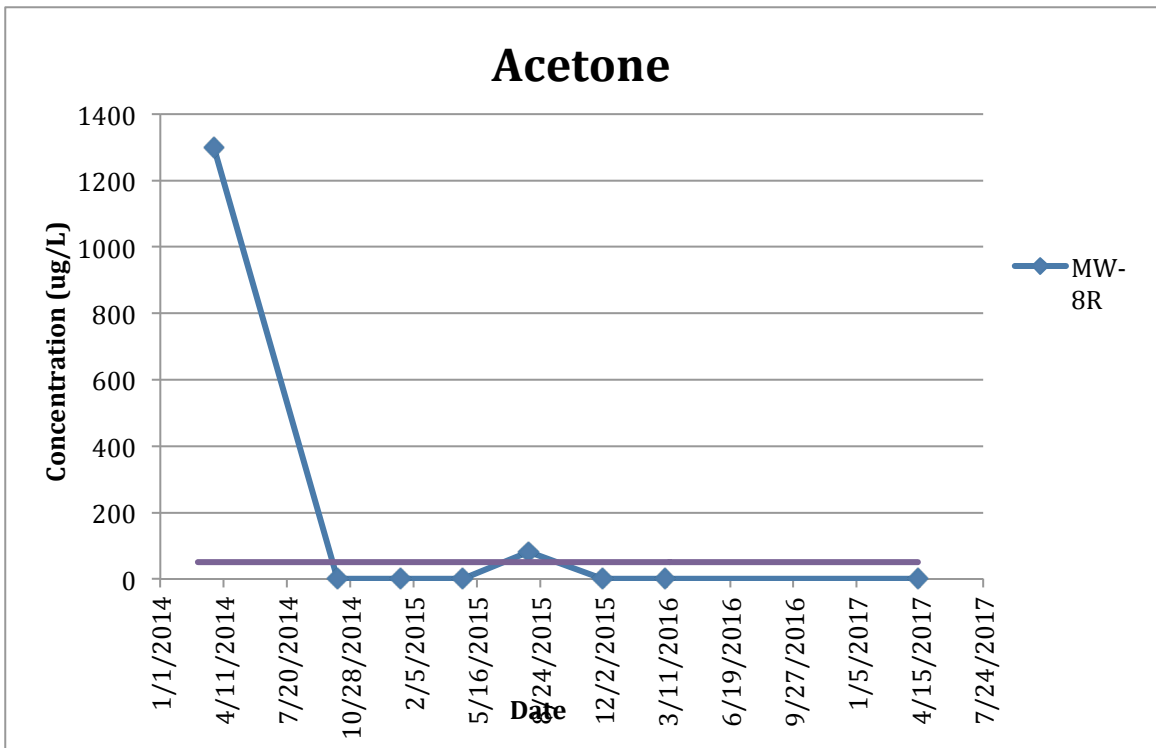
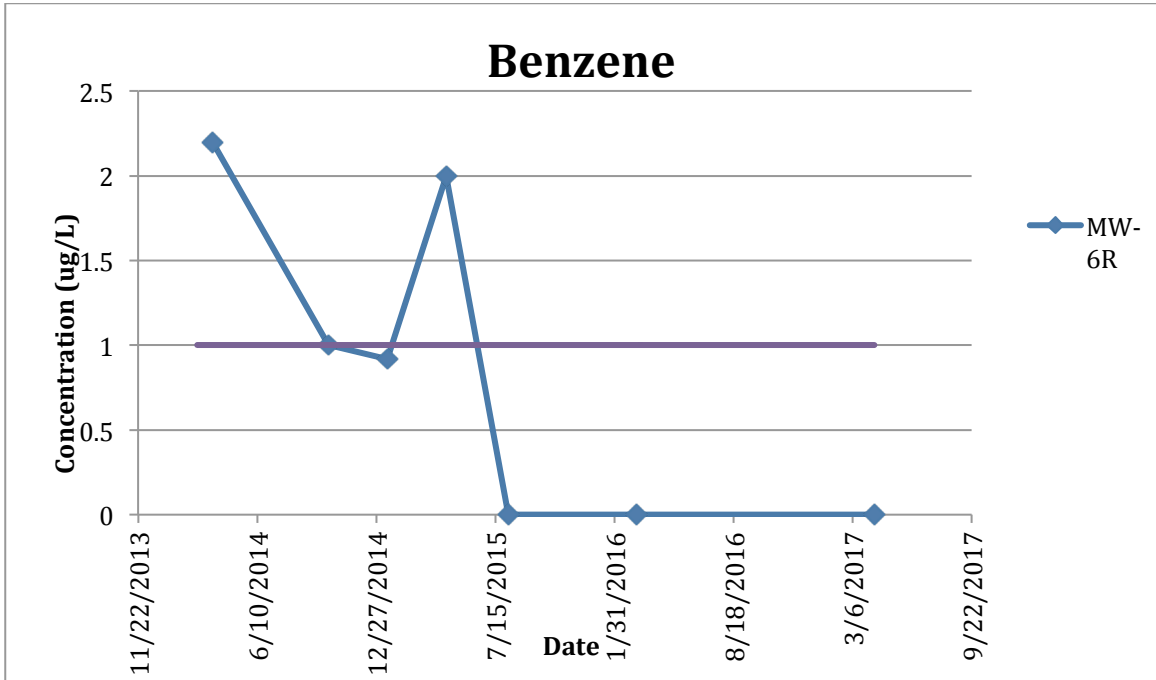
Well Diameter	2 inches	Depth to Water	3.18 ft-bg
Well Screen Interval	10 ft-bg	TOC Elevation	74.47
Headspace PID	0.0 ppm	GW Elevation	71.29 USGS NGVD 1929 Datum
Weather			

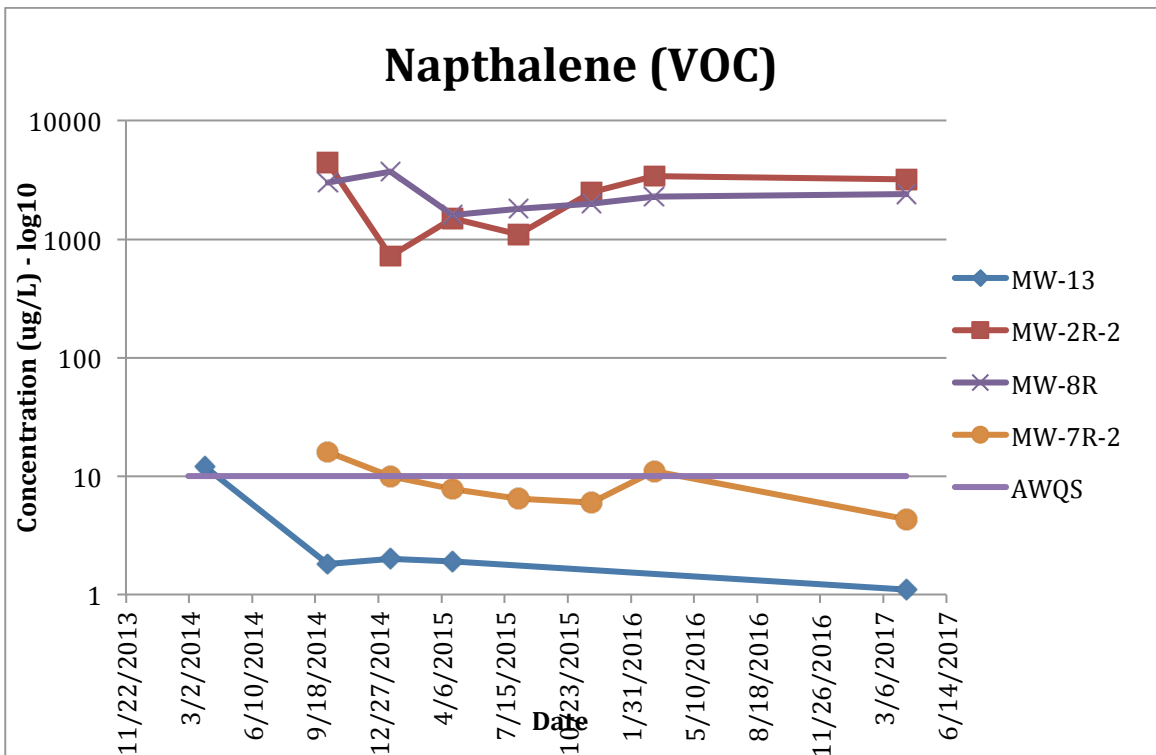
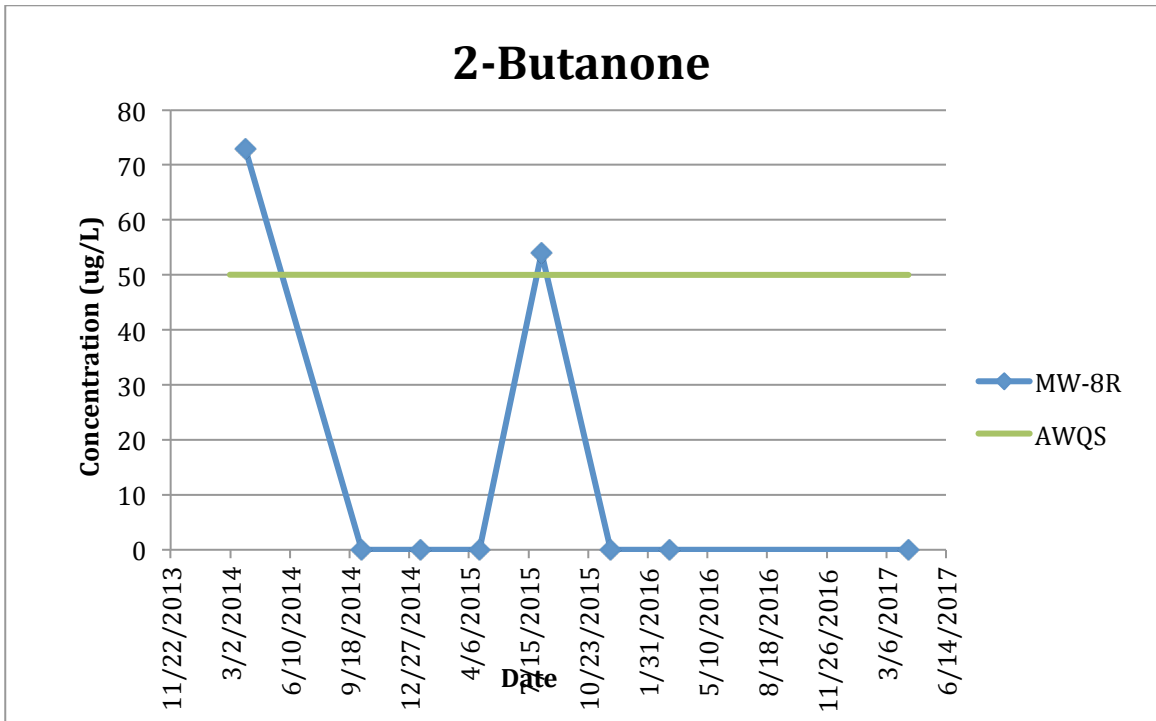
Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	12 ft-bg
Final Depth of Tubing	12 ft-bg
Total Volume Purged	2 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
1005	12.39	6.79	-96	1.9	0.0	1.64	1.22
1015	9.98	6.67	-95	1.97	0.0	1.18	1.26
1025	9.69	6.58	-93	1.97	0.0	0.82	1.26
1038	9.71	6.52	-91	1.96	0.0	0.86	1.26
1050	9.98	6.51	-92	1.96	0.0	0.61	1.25
1105	9.86	6.51	-93	1.96	21.3	0.62	1.26

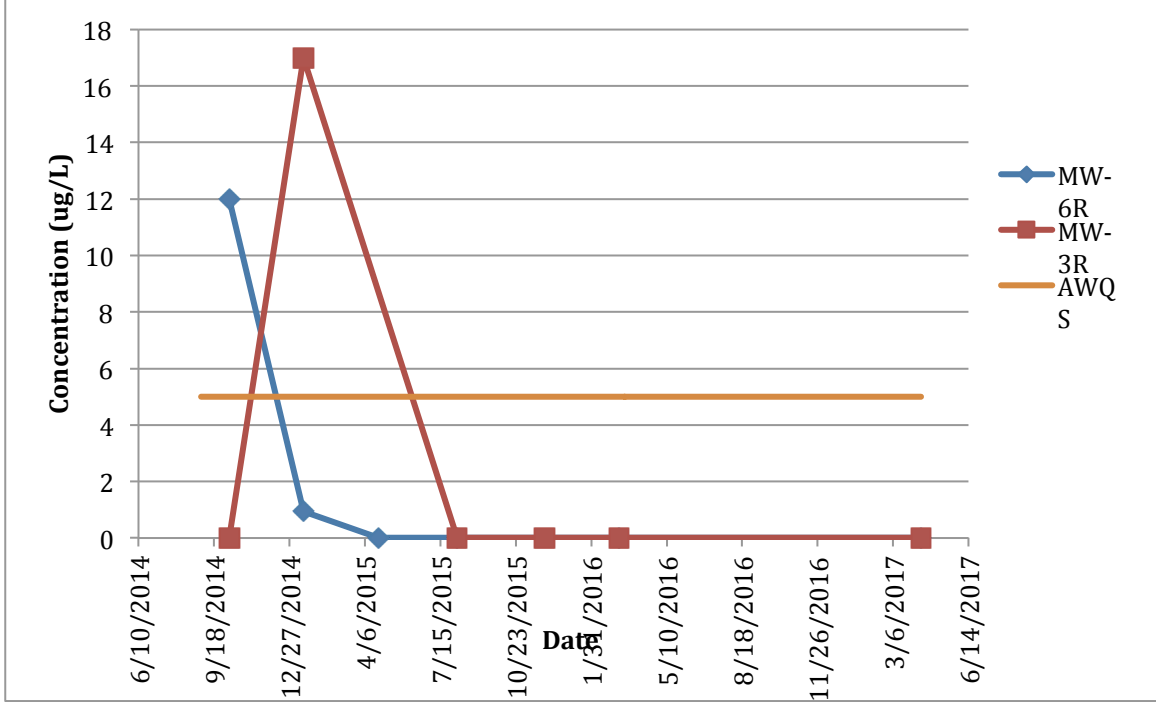
Notes:

Appendix 3
Groundwater Concentration Trends

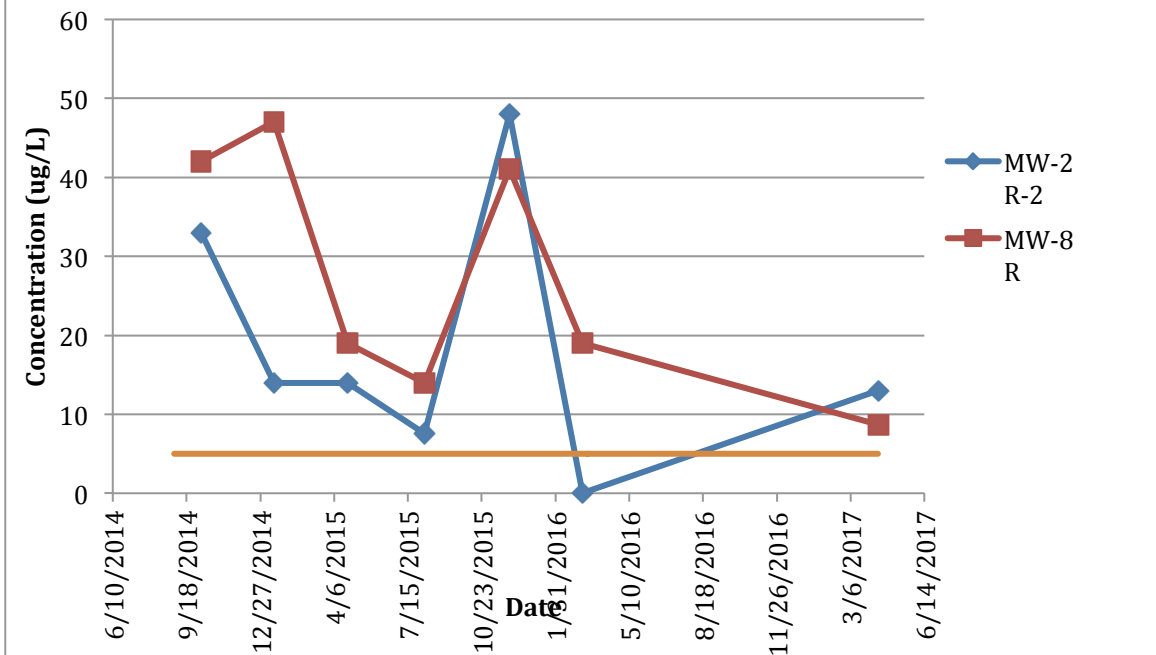


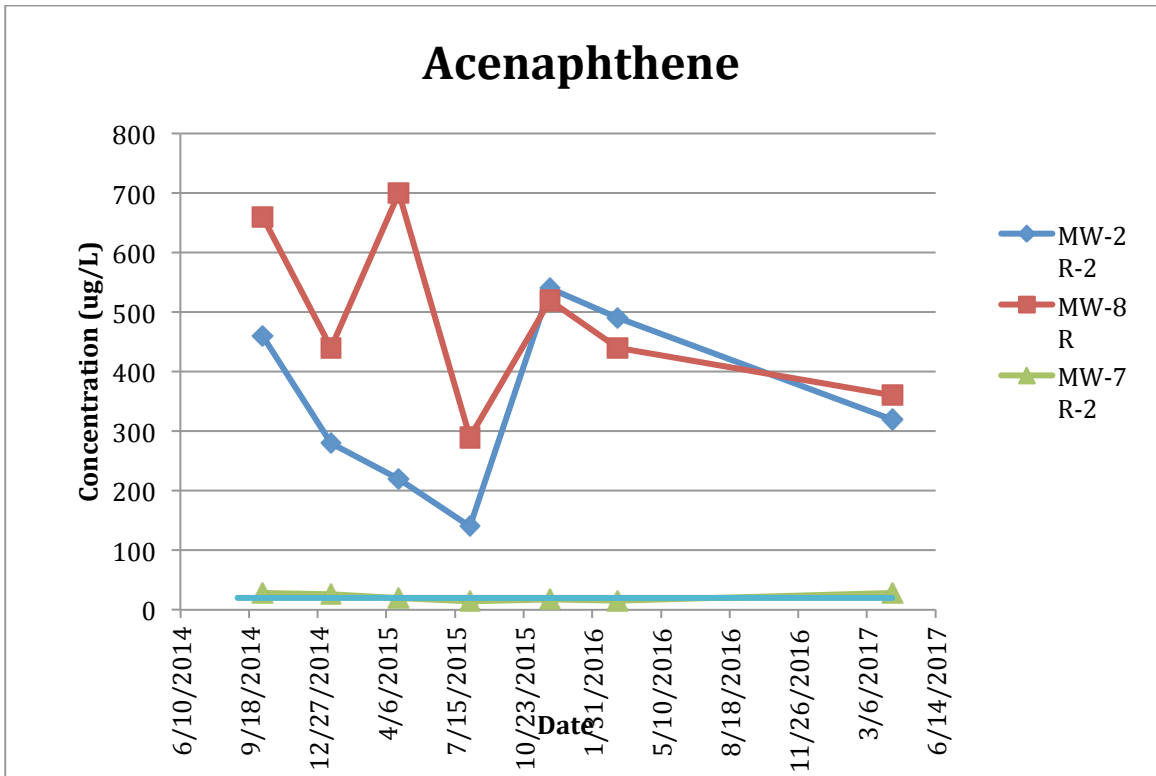
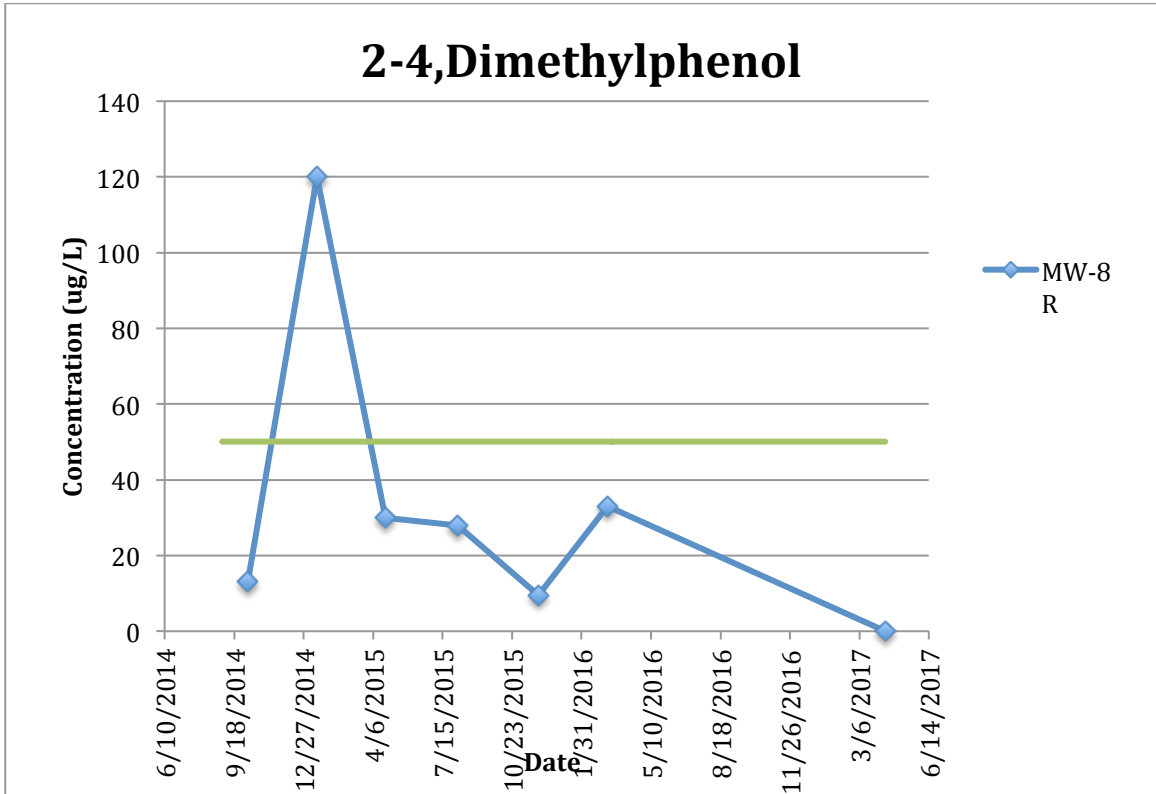


Bis(2-Ethylhexyl)phthalate

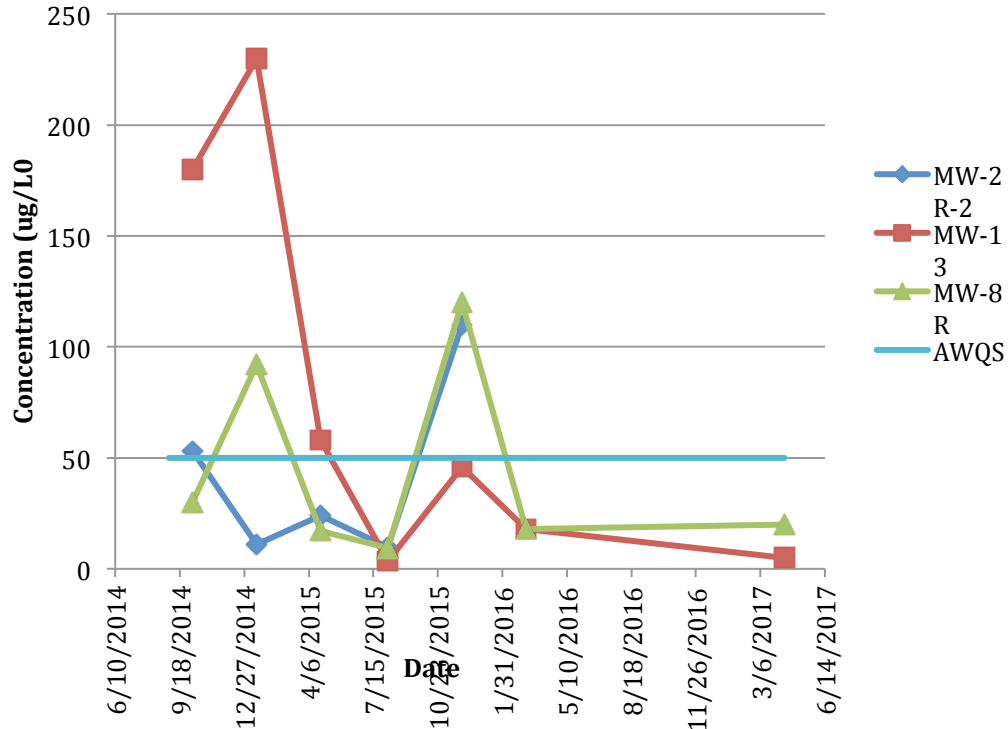


Biphenyl

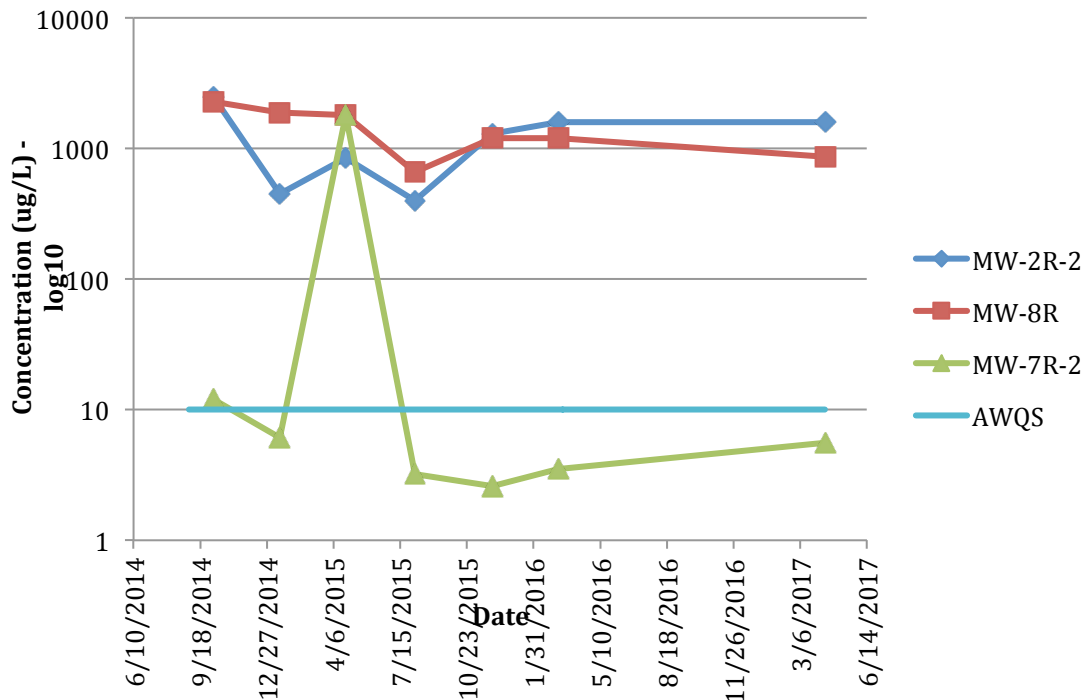




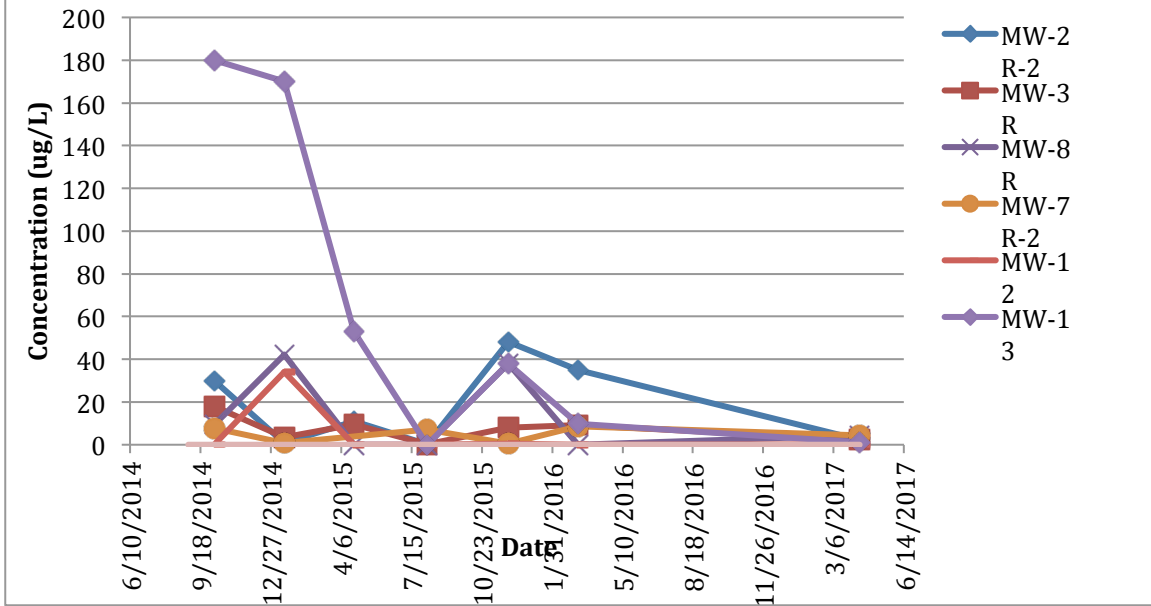
Fluoranthene



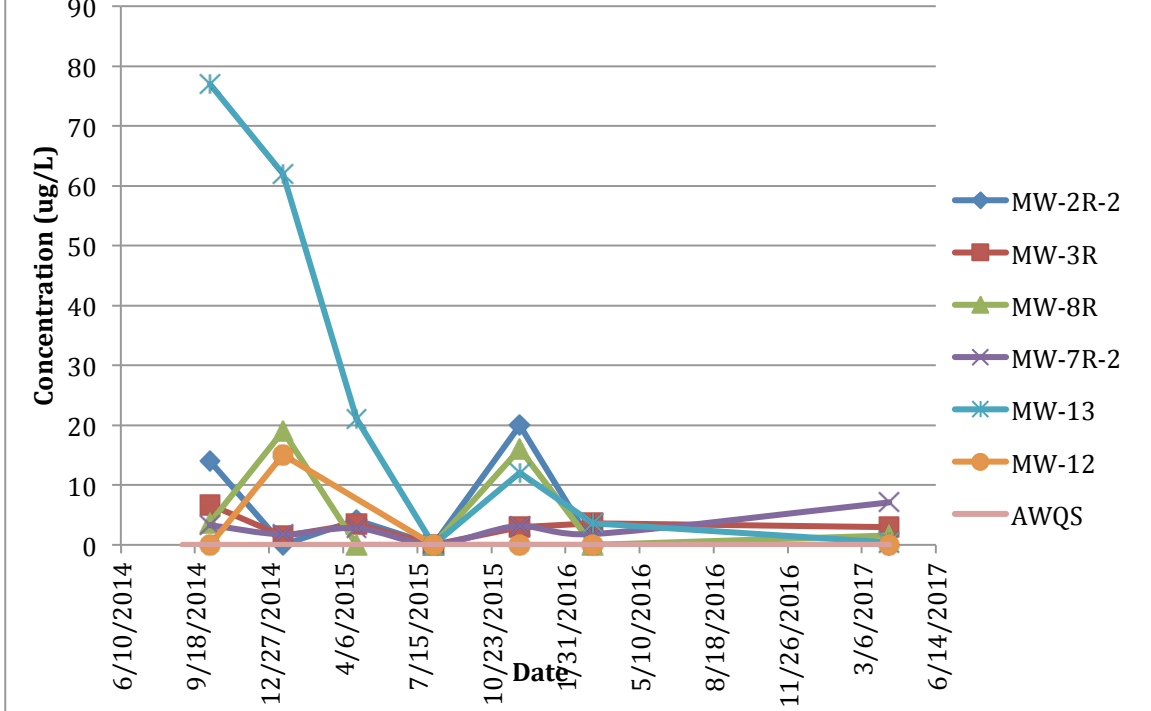
Naphthalene (SVOC)



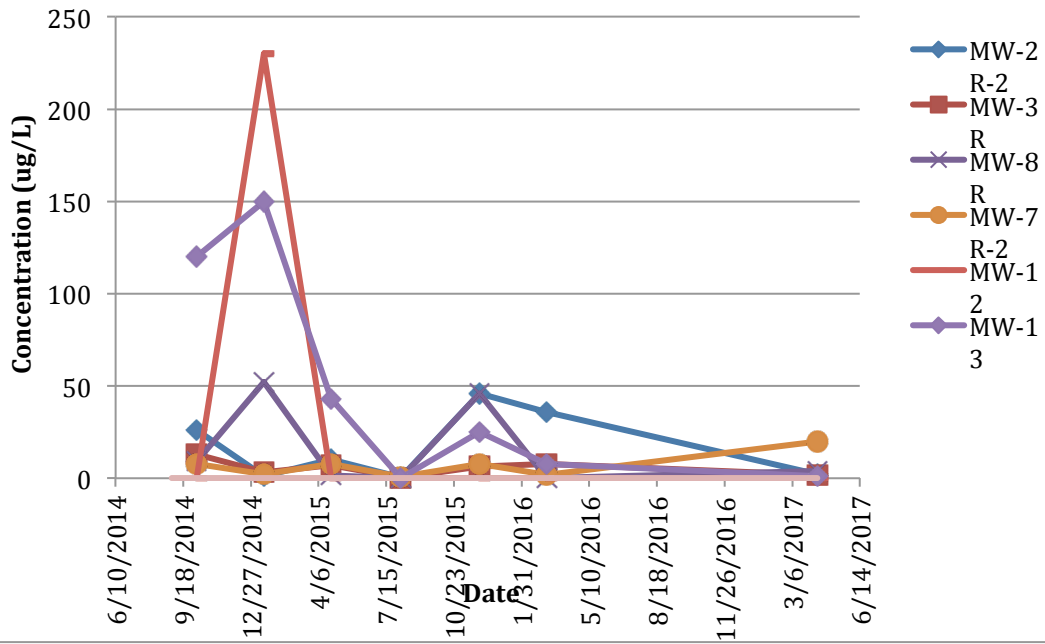
Benzo(b)fluoranthene



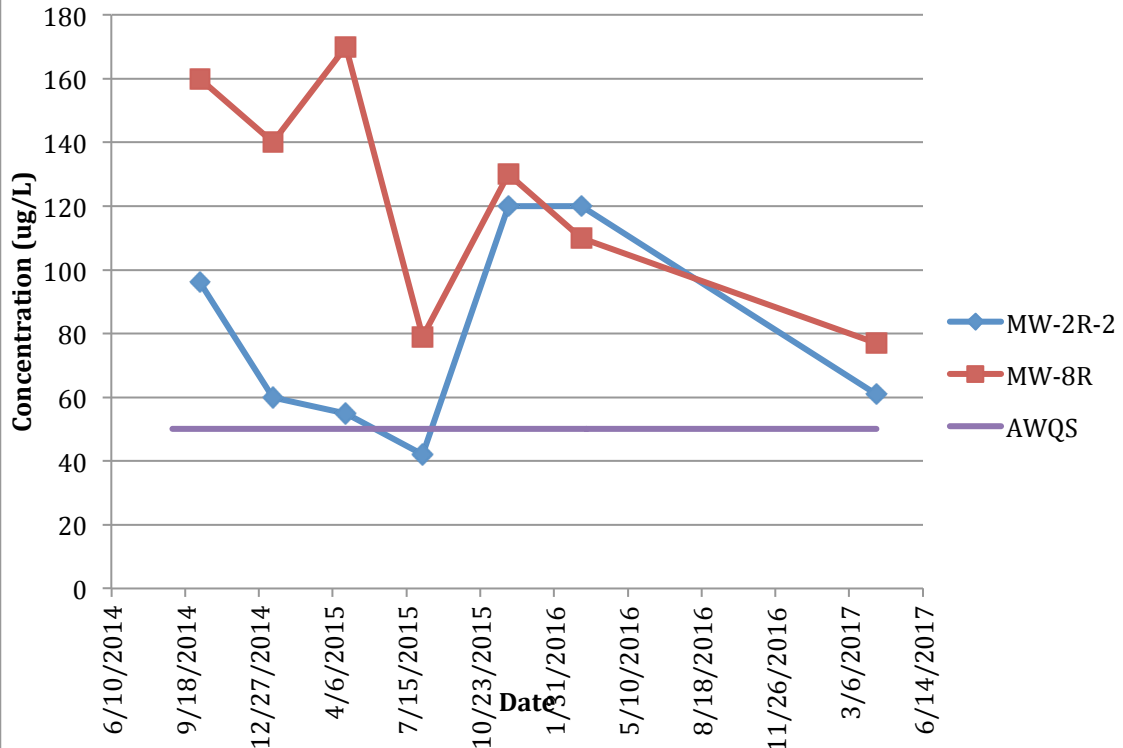
Benzo(k)fluoranthene

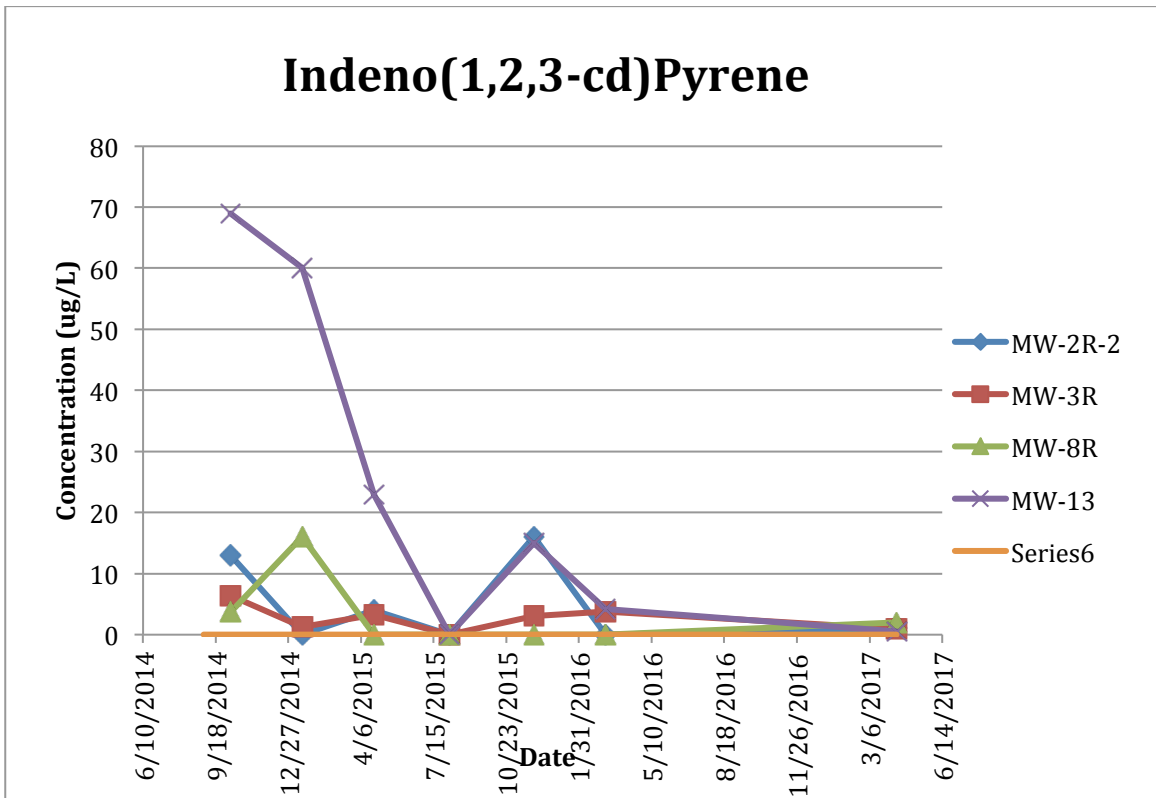
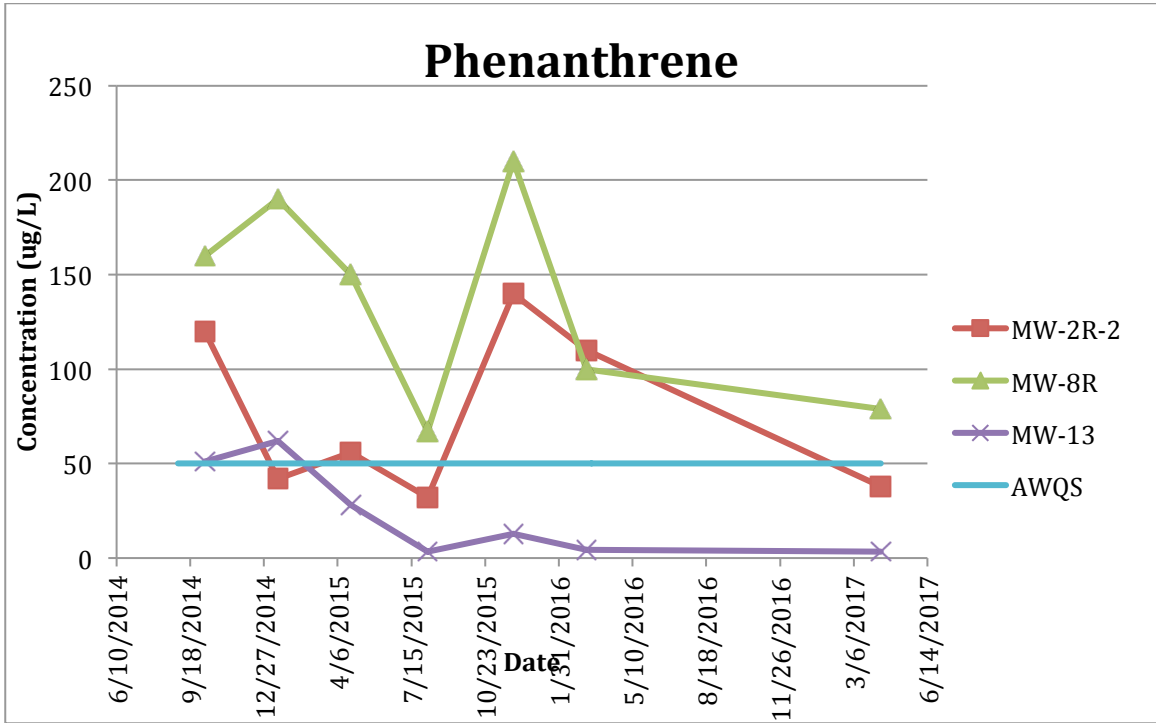


Chrysene

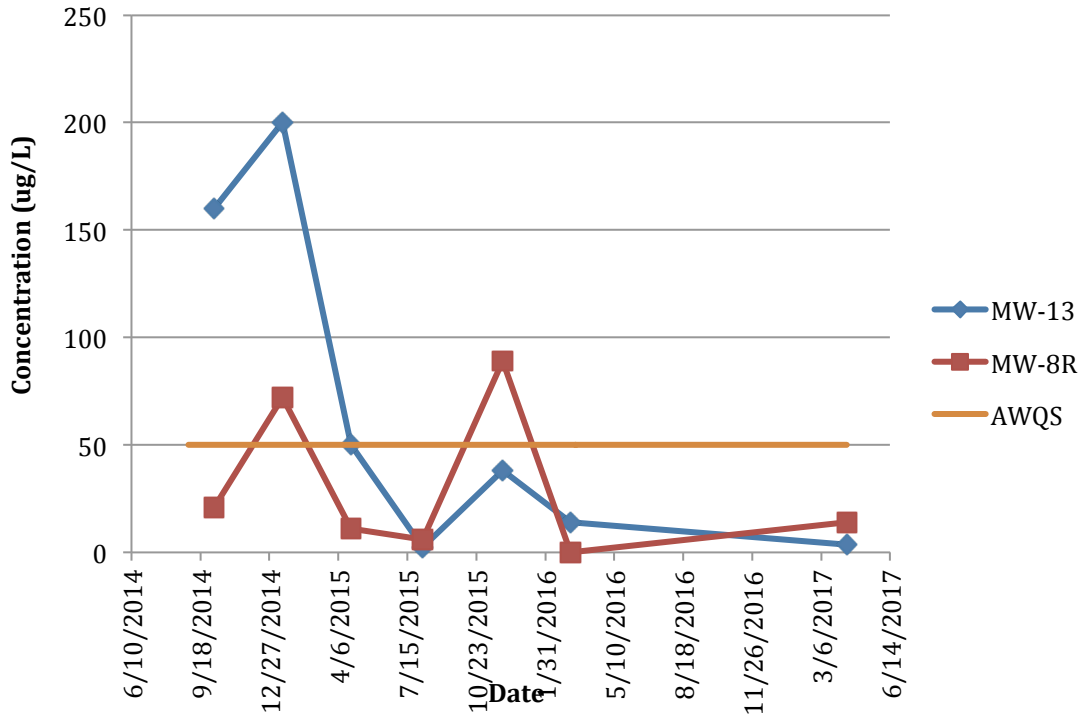


Fluorene





Pyrene



Appendix 4
Data Usability Summary Reports (DUSRs)

ORANGEBURG COMMONS
DATA USABILITY SUMMARY REPORT
Laboratory Data Package L1610895
14 July 2017

1.0 General Information

Patrick Medland of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Mansfield, MA) for the analysis of air and soil vapor samples collected April 13, 2016 at the Orangeburg Commons property (Site) located in Rockland County, New York. Samples were collected by Tenen Environmental, New York, New York (Tenen). The data were reviewed for conformance to the requirements of the following guidance documents: *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*¹ and the US EPA's *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15*² and adherence to project objectives outlined in the Site Quality Assurance Project Plan³ (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1610895 issued June 6, 2017. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SGDF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

2.0 Intended Use of Data

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the soil vapor and ambient air at the Site. Air and soil vapor samples were analyzed for:

- EPA Method TO-15 – Volatile Organic Compounds (VOCs) by GC/MS (low level);
- EPA Method TO-15 SIM – Selective Ion Monitoring of VOCs by GC/MS.

The data reviewed as part of this DUSR were validated and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- CN and full Cat. B LDR for the sample delivery group (SDG);
- Sample c-o-c forms;
- Site QAPP; and
- Field Notes.

The results of supporting quality control (QC) analyses were summarized in the CN and reported (for each method/analysis) in the LDR.

¹ New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure Investigation, Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

² https://www.epa.gov/sites/production/files/2016-03/documents/sop_hw_31_revision_6.pdf

³ Orangeburg Commons Site, Rockland County, New York, Quality Assurance Project Plan, NYDEC BCP Site No. C344073. Landmark Consultants Corporation, January 2013.

3.0 Introduction

A total of four (4) ambient air and five (5) soil vapor samples were analyzed for VOCs as listed in Section 2.0. One (1) soil vapor duplicate sample was also analyzed for VOCs. **Table 1** lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

4.0 Project Objectives

Among other items, the project objectives were to allow determination of precision, accuracy, and comparability of indoor air and soil vapor data. A duplicate sample for soil vapor was collected, though no QC criteria are stated in the QAPP for soil vapor or ambient air samples. Therefore, Tenen should evaluate duplicate sample results to determine if they meet project objectives for field precision. Sample and field duplicate results are addressed in section 5.8.

5.0 Data Review and Validation Results

The following sections include a summary of sample analytical and validation results.

5.1 Analytical Results

As stated in the CN, some sample exceptions were noted as listed below, and qualified analytical data are listed in **Table 2**.

- For Method TO-15, samples -01 (IA-RI-1) and -02 (IA-RI-2), isopropanol results exceeded calibration limits and were qualified “E” by the lab. For only this compound, the samples were re-analyzed at dilution and both results were reported by the lab. Tenen should use the re-analyzed dilution results as these are within calibration limits;
- For Method TO-15, the acetone concentration in sample -04 (IA-SS) could not be determined due to non-target compound interference. The sample result is reported as not-detected (ND) at the reporting limit (RL) and qualified “U”. ND sample results are qualified as “UJ” at the RL;
- For Method TO-15, acetone concentrations in samples -08 (SV-SS-2), -09 (SV-SS-3) and -10 (SV-RI-1 DUP) are considered estimated due to non-target compound interference. Detected acetone sample results are qualified “J” as estimated.

As summarized in the CN, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site, except for the “E” qualified data above. All other laboratory results were accepted, and ND results are reported as less than the value of the RL or method detection limit (MDL).

5.2 Preservation and Holding Times

Samples were evaluated for agreement with the c-o-c and all laboratory sample log-ins were consistent with the c-o-c. As noted in the SGDF and CN, all samples were received in the appropriate containers and in good condition. Samples were preserved in the field and prepared and analyzed within holding times specified in EPA Method TO-15 and TO-15 SIM.

5.3 Canister/Flow Controller Certification and Leak Checks

As noted in the CN, samples were released from the laboratory on April 11, 2016, two days before sample collection. Canisters were batch certified and certification results are provided in the in the “Supporting

Documentation” section of the LDR. No compounds were detected in the canisters selected for batch testing.

Canister and flow controller information was provided in the “Supporting Documentation” section of the LDR. All canister and flow controller leak checks passed; however, as noted in the CN, the relative percent differences (RPD) for samples -09 (SV-SS-3) and -10 (SV-RI-1 DUP) were outside of control limits. Since the final canister pressures recorded by the laboratory indicated that a sufficient sample volume was collected for analysis, the laboratory required no further action. No data qualifiers are required.

5.4 Calibrations

Initial (ICV) and continuing calibrations (CCV) were performed using required standard concentrations and at required frequencies except for:

- For TO-15 SIM, halothane exceeded the maximum % deviation (%D) in the CCV of WG885595-2 This compound was not reported and no qualifiers are required.

ICV and CCV data met Standard Method requirements for TO-15 and TO-15 SIM analyses.

5.5 Blanks

All method blank (MB) results were reported below the MDL for TO-15 and TO-15 SIM analyses.

5.5 Internal Standard and Surrogate Recoveries

Internal standard areas and retention times met acceptance criteria for TO-15 and TO-15 SIM analyses. Surrogates were added to all samples and blanks as required by EPA Method TO-15.

5.6 Laboratory Control Samples

The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) recoveries (if provided) for both analyses met the project objectives of 70-130 (VOCs) percent recovery (%R) and <25 RPD (or lab equivalent) with the following exceptions:

- The LCS %Rs were below standards for halothane (60%) and propane (67%) and qualified “Q” by the lab. These compounds were not reported for the samples and do not require additional qualification.

5.7 Laboratory Duplicate

For TO-15 analysis, one batch field duplicate was performed on 20 April 2016 for WG885593. For TO-15 SIM analysis one batch field duplicate was performed on 20 April 2016 for WG885595. All compounds were within RPD limits for both laboratory duplicates.

5.8 Field Precision

One soil vapor field duplicate sample (SV-RI-1 DUP) was collected with associated sample SV-RI-1. Sample and sample duplicate results for carbon disulfide, tetrahydrofuran, isopropanol, n-hexane, heptane, p,m-xylene and o-xylene exceed 50% RPD. Field duplicate results should be evaluated by Tenen to determine any impact to the data quality and project objectives/decisions and the appropriate required data qualifiers. It should be noted that the soil vapor duplicate samples were collected in succession and therefore should be used to evaluate temporal variability opposed to analysis precision.

5.9 Field Procedures

All samples should have been collected using standard industry practices, though there are instances where the field documentation does not allow for a thorough evaluation of the field procedures. These instances are listed below:

- Purging of the soil vapor sampling ports was not recorded;
- Details of the photoionization detector (PID) used, its detection limits, or method for measuring the VOCs were not provided;
- Final collection end time (16:35) and final canister pressure (-14.12 inches of mercury (in. Hg)) for sample AA-1 were not recorded in the field notes provided; and
- No chemical inventory or building usage documentation was provided.

Typically, for air and soil vapor samples collected near sea level, initial field vacuum should read above -27 in. Hg prior to sample collection. Additionally, post-test lab vacuum should be greater than 0 in. Hg and no more than 6 in. Hg greater than the final field vacuum for ambient/indoor air samples. Soil vapor sample may have a final vacuum of 0 in. Hg since they are typically shorter duration “grab” samples. Eight hour ambient/indoor air samples should have a total test time between 7.5 and 8.5 hours. As indicated on the c-o-c and on the canister and flow controller information form, all initial and final canister pressures were within criteria. As indicated on the c-o-c, 8-hour ambient and indoor air sample times were within total test time requirements.

5.10 Data Review and Validation Summary

The results of this DUSR indicate that the analytical data collected in L1610895 are usable for determining concentrations of the COCs in indoor air and soil vapor at the site. The concentrations of compounds listed on **Table 2** should be considered not detected and estimated with an approximated reporting limit (“UJ” qualified) or estimated (“J” qualified).

Table 1
Cross-Reference Field Sample Identifications and Laboratory Identifications
July 2017

Field Identification	Sample Date	Laboratory Identification	Matrix	Analysis
IA-RI-1	4/13/2016	L1610895-01	AIR	EPA Methods TO-15 and TO-15-SIM
IA-RI-2	4/13/2016	L1610895-02	AIR	EPA Methods TO-15 and TO-15-SIM
AA-1	4/13/2016	L1610895-03	AIR	EPA Methods TO-15 and TO-15-SIM
IA-SS	4/13/2016	L1610895-04	AIR	EPA Methods TO-15 and TO-15-SIM
SV-RI-1	4/13/2016	L1610895-05	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM
SV-RI-2	4/13/2016	L1610895-06	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM
SV-SS-1	4/13/2016	L1610895-07	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM
SV-SS-2	4/13/2016	L1610895-08	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM
SV-SS-3	4/13/2016	L1610895-09	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM
SV-RI-1 DUP	4/13/2016	L1610895-10	SOIL VAPOR	EPA Methods TO-15 and TO-15-SIM

Table 2
Qualified Analytical Data
July 2017

Field ID/Lab ID	Analyte	Qualification	Reason for Qualification
IA-SS / L1610895-04	acetone	(1 ppbv / 2.38 ug/m3) UJ (Method TO-15 only)	Analyte could not be determined due to non-target compound interference, estimated at RL.
SV-SS-2 / L1610895-08	acetone	J (Method TO-15 only)	Estimated concentrations due to co-elution with a non-target peak.
SV-SS-3 / L1610895-09	acetone	J (Method TO-15 only)	Estimated concentrations due to co-elution with a non-target peak.
SV-RI-1 DUP / L1610895-10	acetone	J (Method TO-15 only)	Estimated concentrations due to co-elution with a non-target peak.

Notes:

J - Value is estimated.

UJ - Value was not detected. The reported quantitation limit is approximate.

The values listed for acetone are the reporting limits.

Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

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: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 11, 2016. The canister certification results are provided as an addendum.

Sample Receipt

The sample designated SV-SS-3 (L1610895-09) had a RPD for the pre- and post-flow controller calibration check (43% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 18.0 mL/minute; the final flow rate was 11.6 mL/minute. The final pressure recorded by the laboratory of the associated canister was -5.5 inches of mercury. No further action was required.

The sample designated SV-RI-1 DUP (L1610895-10) had a RPD for the pre- and post-flow controller calibration check (25% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 18.0 mL/minute; the final flow rate was 23.2 mL/minute. The final pressure recorded by the laboratory of the associated canister was 0.0 inches of mercury. No further action was required.

L1610895-01 and -02: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1610895-04 The presence of Acetone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

L1610895-08, and -10 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1610895-05 and -06: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Project Name: ORANGEBURG COMMONS
Project Number: OC


Lab Number: L1610895
Report Date: 04/21/16

Case Narrative (continued)

Volatile Organics in Air by SIM

L1610895-05 and -06: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

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: 

Report Date: 04/21/16

Title: Technical Director/Representative



Sample Delivery Group Form

Laboratory Job number: L1610895

Project Manager: Chris Anderson

Review Date: 04/20/2016

Project Number: OC

Project Name: ORANGEBURG COMMONS

Received: 04/13/2016 16:40

Client Account: Tenen Environmental, LLC

Received by: BB

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Absent	No	No	-	No	No

ORANGEBURG COMONS
DATA USABILITY SUMMARY REPORT
Laboratory Data Package L1711542
22 June 2017

1.0 General Information

Patrick Medland of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of water samples collected 12 April 2017 at the Orangeburg Commons property (Site) located in Rockland County, New York. Samples were collected by Tenen Environmental, New York, New York (Tenen). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan¹ (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package are labeled as laboratory project L1711542 issued 19 April 2017. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SGDF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) forms for the samples are provided near the front of the full Cat. B Laboratory Data Report (LDR).

2.0 Intended Use of Data

According to the QAPP, the intended use of the data reviewed as part of this DUSR is to monitor the performance of the remedial actions listed in the Site Management Plan (not provided) and to evaluate changes in groundwater quality at the Site. Aqueous samples were analyzed for:

- EPA Method 8260C – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8270D-SIM – SVOCs by GC/MS.

One aqueous trip blank sample (TRIP BLANK) was submitted for quality control (QC) purposes to check for contamination due to sample handling, storage, and shipping procedures. This sample was analyzed for VOCs EPA Method 8260C. One aqueous field blank sample (FIELD BLANK) was submitted for QC purposes to check for contamination due to sampling and decontamination procedures. This sample was analyzed for VOCs and SVOCs EPA Methods 8260C and 8270D.

The data reviewed as part of this DUSR were validated as described in the EPA NFG and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- CN and full Cat. B LDR for the sample delivery group (SDG);
- Sample c-o-c forms;
- Site QAPP; and
- Field Notes.

¹ Orangeburg Commons Site, Rockland County, New York, Quality Assurance Project Plan, NYDEC BCP Site No. C344073. Landmark Consultants Corporation, January 2013.

The results of supporting QC analyses were summarized in the CN and reported (for each method/analysis) in the LDR.

3.0 Introduction

A total of eight (8) aqueous samples were analyzed for VOCs and SVOCs as listed in Section 2.0. Two (2) aqueous blanks were analyzed: a field blank for VOCs and SVOCs and a trip blank for VOCs only. **Table 1** lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

4.0 Project Objectives

The project objectives were to allow determination of precision, accuracy, completeness, representativeness, regulatory compatibility, and comparability of data. Per the project QAPP, one field blank is required per sampling event. One duplicate sample is required per sampling event. One trip blank is required with each SDG of VOC samples. Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) is required per sampling event.

When analytical data objectives were not specified in the QAPP, laboratory and NFG specific criteria were used and are presented in the following sections.

5.0 Data Review and Validation Results

The following sections include a summary of sample analytical and validation results.

5.1 Analytical Results

As stated in the CN, some sample exceptions were noted, and qualified analytical data are listed in **Table 2**. As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site except for benzoic acid in sample MW-3R which is rejected as detailed in Section 5.8. All other laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

5.2 Field Documentation, Preservation and Holding Times

Samples were evaluated for agreement with the c-o-c and all laboratory sample log-ins were consistent with the c-o-c. Sample IDs and sample date/times were compared between the c-o-c and daily field notes and field notes were checked for completeness. As noted in the SGDF and CN, all samples were received in the appropriate containers and in good condition. Sample receipt temperatures were within the acceptance criteria of 4 ± 2 °C. Samples were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were discrepancies and omissions that are not likely to affect the analytical results but should be noted:

- Sample TRIP BLANK is marked for VOC and SVOC analysis on the c-o-c. It was only analyzed for VOCs as required.
- In the field notes provided by Tenen for review:
 - The sampling location for MW-7R2 is recorded as both MW-7R2 and MW-7R.
 - The sampling location for MW-8R is recorded as both MW 8R and MW-8.
 - The sampling location for MW-6R is recorded as 6R.
 - Samples TRIP BLANK and MW-12 DUP and collection times were not recorded.
 - The sample time for MW-13 was not recorded.

- The sample time for MW-6R is recorded as 10:25. The sample time recorded on the c-o-c and provided in the laboratory report is 9:25.
- Geosyntec requested a review of all field documentation required by the QAPP (i.e., field notes and sampling forms). Documents that were not provided by Tenen for review or deviations from QAPP requirements are as follows:
 - The QAPP states that sampling information for each sampling location will be recorded on a data sheet; however, a data sheet was not provided by Tenen for review;
 - For sample MW-2R2, a measurement of VOCs at the top of the well casing was greater than 5 parts per million (ppm). Per the QAPP, the well should have been vented until the reading fell below 5 ppm prior to continuing pre-sampling activities. Venting was not documented in the field notes provided;
 - Sample flow rates, depths intervals, and well depths were not recorded in the field notes provided;
 - The start (arrival at the site) and end times (departure from the site) were not recorded in the field notes provided;
 - Field personnel and visitors present at the site were not recorded in the field notes provided;
 - The types and number of sample containers and preservatives used were not recorded in the field notes provided;
 - Types of sampling equipment used was not recorded in the field notes provided; and
 - No calibration information for the equipment used to measure groundwater field parameters not recorded in the field notes provided.

5.3 Calibrations

Initial (ICV) and continuing calibrations (CCV) were performed using required standard concentrations and at required frequencies. ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses except for the following compounds that are also listed in **Table 2**.

- For all samples, the percent difference (%D) in the ICV or CCV for carbon disulfide exceeded the EPA NFG standards. This compound was ND in all samples and results should be qualified “UJ”.
- For samples FIELD BLANK, MW-7R2, MW-6R, MW-13, MW-12, and MW-12 DUP, the %D in the CCV for bromochloromethane exceeded the EPA NFG standards. This compound was ND in the samples and results should be qualified “UJ”.
- For samples MW-3R, MW-2R2, TRIP BLANK, and MW-8R, the %D in the ICV for vinyl chloride exceeded the EPA NFG standards. This compound was ND in the samples and results should be qualified “UJ”.

5.4 Blanks

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

5.4.1 Field and Trip Blank Samples

One trip blank sample (TRIP BLANK) was submitted with this SDG for VOCs. One aqueous field blank sample (FIELD BLANK) was collected per the QAPP requirement and submitted for VOC and SVOC analysis. All analytes were reported below the MDL except for the following data quality exceptions are noted:

- Acetone was reported above the MDL but below the RL in both the trip blank and field blank (4.1 and 2.0 micrograms per liter ($\mu\text{g/L}$) respectively). Associated sample results were ND; therefore, no qualification is required.
- Naphthalene was reported above the MDL but below the RL in the field blank (0.09 $\mu\text{g/L}$) in SVOC SIM analysis. Samples reported ND or at a concentration greater than RL do not require qualification. The following samples had detected concentrations less than the RL and should be qualified "U" at their respective RLs (0.20 $\mu\text{g/L}$): MW-7R2, MW-6R, and MW-12.

5.4.2 Laboratory Blank Samples

All method blank (MB) results were reported below the MDL.

5.5 Internal Standard and Surrogate Recoveries

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. The surrogate recovery of 4-terphenyl-d14 for sample MW-12 was below laboratory QC limits for SVOC analysis, however all other surrogates were within limits, so no qualification is necessary.

5.6 Laboratory Control Samples

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 70-130% (VOCs) or 40-140% (SVOCs) recovery (or lab equivalent) with the following exceptions:

- The LCS/LCSD percent recovery (%R) exceeded standards for carbon disulfide. Results in all samples were reported ND and do not require qualification.
- The LCS/LCSD relative percent difference (RPD) for dichlorodifluoromethane, 2-hexanone, and trans-1,4-dichloro-2-butene exceeded standards. All results were reported ND and require no qualification.
- The LCS/LCSD %R for 4-chloroaniline was below standards. Results in all samples were reported ND and results should be qualified "UJ".
- The LCS %R for 1,3-dichlorobenzene (for SVOC analysis) was below standards. Results in all samples were reported ND and results should be qualified "UJ".

5.7 Laboratory Duplicate

No laboratory duplicate was performed, nor required for organic analyses.

5.8 Matrix Spike/Matrix Spike Duplicates

A site-specific MS/MSD was performed on sample MW-3R. The MS/MSD recoveries met the project objectives of 70-130% (VOCs) or 40-140% (SVOCs) recovery (or lab equivalent) with the following exceptions:

- Chloromethane, vinyl chloride, and naphthalene (for VOC analysis) had a MS and MSD %R exceeding laboratory acceptance criteria for the MS/MSD. The sample results were ND, so no qualification is required.
- Chloroethane, vinyl acetate, and dichlorodifluoromethane had a MSD %R exceeding laboratory acceptance criteria for the MS/MSD. The sample results were ND, so no qualification is required.

- Naphthalene and 1,4-dioxane (for VOC analysis) had a MS/MSD RPD exceeding laboratory acceptance criteria for the MS/MSD. The sample results were ND, so no qualification is required.
- 3,3'-dichlorobenzidine and 4-chloroaniline had a MS and MSD %R below laboratory acceptance criteria for the MS/MSD. The sample results were ND and should be qualified "UJ".
- As stated in the CN, "The WG994523-4/-5 MS/MSD recoveries, performed on L1711542-02, are below the acceptance criteria for benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit". The ND data for benzoic acid for MW-3R should be rejected and qualified "R".

5.9 Field Procedures

Field documentation was assessed to determine if samples were collected using standard industry practices, as detailed in the Site QAPP. Some samples (MW-3R, MW-6R, and MW-12) appear to have been collected prior to the stabilization of one or more of the indicator parameters. Depth to water was not documented during purging to assess drawdown. Sample MW-13 was collected with a bailer as documented in the field notes. Issues with sample collection and field documents (outlined in Section 5.2) should be evaluated by Tenen to determine any impact to the data quality and project objectives/decisions. Field QC sampling requirements were met.

5.10 Data Review and Validation Summary

The results of this DUSR indicate that the analytical data collected in L1711542 are usable for determining concentrations of the COCs in groundwater at the Site with the noted exception of benzoic acid at well MW-3R as this result should be rejected. The concentrations of compounds listed on **Table 2** should be considered not detected with an approximated reporting limit ("UJ" qualified) or not detected ("U" qualified).

Table 1
Cross-Reference Field Sample Identifications and Laboratory Identifications
June 2017

Field Identification	Sample Date	Laboratory Identification	Matrix	Analysis
FIELD BLANK	4/12/2017	L1711542-01	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-3R	4/12/2017	L1711542-02	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-7R2	4/12/2017	L1711542-03	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-2R2	4/12/2017	L1711542-04	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-6R	4/12/2017	L1711542-05	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-13	4/12/2017	L1711542-06	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-12	4/12/2017	L1711542-07	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
MW-12 DUP	4/12/2017	L1711542-08	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM
TRIP BLANK	4/12/2017	L1711542-09	AQUEOUS	SW-846 8260C
MW-8R	4/12/2017	L1711542-10	AQUEOUS	SW-846 8260C, 8270D, and 8270D-SIM

Table 2
Qualified Analytical Data
June 2017

Field ID	Lab ID	Analyte	Qualification	Reason for Qualification
All samples	L1711542-01 through -10	carbon disulfide	UJ	%D exceeds standards in ICV or CCV
All samples analyzed for SVOCs	L1711542-01 through -08, -10	4-chloroaniline	UJ	%R in LCS/LCSD below standards
All samples analyzed for SVOCs	L1711542-01 through -08, -10	1,3-dichlorobenzene (8270D analysis only)	UJ	%R in LCC below standards
FIELD BLANK	L1711542-01	bromochloromethane	UJ	%D exceeds standards in CCV
MW-3R	L1711542-02	vinyl chloride	UJ	%D exceeds standards in ICV
MW-3R	L1711542-02	3,3'-dichlorobenzidine and 4-chloroaniline	UJ	%R in MS/MSD below standards
MW-3R	L1711542-02	benzoic acid	R	0% R in MS/MSD
MW-7R2	L1711542-03	bromochloromethane	UJ	%D exceeds standards in CCV
MW-7R2	L1711542-03	naphthalene (8270D-SIM analysis only)	0.20 U	Detection in field blank
MW-2R2	L1711542-04	vinyl chloride	UJ	%D exceeds standards in ICV
MW-6R	L1711542-05	bromochloromethane	UJ	%D exceeds standards in CCV
MW-6R	L1711542-05	naphthalene (8270D-SIM analysis only)	0.20 U	Detection in field blank
MW-13	L1711542-06	bromochloromethane	UJ	%D exceeds standards in CCV
MW-12	L1711542-07	bromochloromethane	UJ	%D exceeds standards in CCV
MW-12	L1711542-07	naphthalene (8270D-SIM analysis only)	0.20 U	Detection in field blank
MW-12 DUP	L1711542-08	bromochloromethane	UJ	%D exceeds standards in CCV
TRIP BLANK	L1711542-09	vinyl chloride	UJ	%D exceeds standards in ICV
MW-8R	L1711542-10	vinyl chloride	UJ	%D exceeds standards in ICV

Notes:

UJ - Value was not detected. The reported quantitation limit is approximate.

U - Not detected. The associated number is the reporting limit.

R - Rejected. Data is unusable.

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

Case Narrative

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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: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

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.

Semivolatile Organics

The WG994523-4/-5 MS/MSD recoveries, performed on L1711542-02, are below the acceptance criteria for benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Semivolatile Organics by SIM

L1711542-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

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: *Melissa Cripps* Melissa Cripps

Report Date: 04/19/17

Title: Technical Director/Representative





Sample Delivery Group Form

Laboratory Job number: L1711542

Project Manager: Karyn Raymond

Review Date: 04/14/2017

Project Number: ORANGEBURG COMMONS

Project Name: ORANGEBURG COMMONS

Received: 04/12/2017 16:30

Client Account: Tenen Environmental, LLC

Received by: GD

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
B	Absent	Yes	No	3.7 - IR Gun	No	No



Sample Delivery Group Form

C	Absent	Yes	No	3.6 - IR Gun	No	No
A	Absent	Yes	No	3.9 - IR Gun	No	No

Appendix 5
Laboratory Deliverables



ANALYTICAL REPORT

Lab Number:	L1610895
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	ORANGEBURG COMMONS
Project Number:	OC
Report Date:	04/21/16

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Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1610895-01	IA-RI-1	AIR	170 RTE 303 ORANGEBURG, NY	04/13/16 16:10	04/13/16
L1610895-02	IA-RI-2	AIR	170 RTE 303 ORANGEBURG, NY	04/13/16 16:10	04/13/16
L1610895-03	AA-1	AIR	170 RTE 303 ORANGEBURG, NY	04/13/16 16:35	04/13/16
L1610895-04	IA-SS	AIR	170 RTE 303 ORANGEBURG, NY	04/13/16 16:20	04/13/16
L1610895-05	SV-RI-1	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 11:40	04/13/16
L1610895-06	SV-RI-2	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 11:17	04/13/16
L1610895-07	SV-SS-1	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 11:47	04/13/16
L1610895-08	SV-SS-2	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 11:50	04/13/16
L1610895-09	SV-SS-3	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 12:12	04/13/16
L1610895-10	SV-RI-1 DUP	SOIL_VAPOR	170 RTE 303 ORANGEBURG, NY	04/13/16 15:40	04/13/16

Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

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: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 11, 2016. The canister certification results are provided as an addendum.

Sample Receipt

The sample designated SV-SS-3 (L1610895-09) had a RPD for the pre- and post-flow controller calibration check (43% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 18.0 mL/minute; the final flow rate was 11.6 mL/minute. The final pressure recorded by the laboratory of the associated canister was -5.5 inches of mercury. No further action was required.

The sample designated SV-RI-1 DUP (L1610895-10) had a RPD for the pre- and post-flow controller calibration check (25% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 18.0 mL/minute; the final flow rate was 23.2 mL/minute. The final pressure recorded by the laboratory of the associated canister was 0.0 inches of mercury. No further action was required.

L1610895-01 and -02: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1610895-04 The presence of Acetone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

L1610895-08, and -10 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1610895-05 and -06: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

Case Narrative (continued)

Volatile Organics in Air by SIM

L1610895-05 and -06: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

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:



Elizabeth Porta

Title: Technical Director/Representative

Date: 04/21/16

AIR

Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-01
 Client ID: IA-RI-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/16 20:32
 Analyst: RY

Date Collected: 04/13/16 16:10
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.864	0.200	--	1.78	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	363	5.00	--	684	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.0	1.00	--	49.9	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	360	0.500	--	885	1.23	--	E	1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.824	0.500	--	2.43	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.20	0.200	--	10.7	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-01

Date Collected: 04/13/16 16:10

Client ID: IA-RI-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.228	0.200	--	1.53	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.391	0.200	--	1.47	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.445	0.400	--	1.93	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	0.456	0.200	--	2.74	1.20	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-01

Date Collected: 04/13/16 16:10

Client ID: IA-RI-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-01
Client ID: IA-RI-1
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/16 20:32
Analyst: RY

Date Collected: 04/13/16 16:10
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.342	0.200	--	1.69	0.989	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.028	0.020	--	0.190	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	89		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-01 D
 Client ID: IA-RI-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 07:19
 Analyst: RY

Date Collected: 04/13/16 16:10
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Isopropanol	304	1.25	--	747	3.07	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	98		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-02
 Client ID: IA-RI-2
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/16 21:05
 Analyst: RY

Date Collected: 04/13/16 16:10
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.835	0.200	--	1.72	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	344	5.00	--	648	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	20.4	1.00	--	48.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	352	0.500	--	865	1.23	--	E	1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.42	0.500	--	4.93	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.832	0.500	--	2.45	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.15	0.200	--	10.5	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-02

Date Collected: 04/13/16 16:10

Client ID: IA-RI-2

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.237	0.200	--	1.59	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.376	0.200	--	1.42	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	0.454	0.200	--	2.73	1.20	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-02

Date Collected: 04/13/16 16:10

Client ID: IA-RI-2

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-02
Client ID: IA-RI-2
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/16 21:05
Analyst: RY

Date Collected: 04/13/16 16:10
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.396	0.200	--	1.96	0.989	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.028	0.020	--	0.190	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-02 D
 Client ID: IA-RI-2
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 07:50
 Analyst: RY

Date Collected: 04/13/16 16:10
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Isopropanol	352	1.25	--	865	3.07	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-03
 Client ID: AA-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/16 21:39
 Analyst: RY

Date Collected: 04/13/16 16:35
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.543	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.61	1.00	--	3.82	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.759	0.500	--	1.87	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1



Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

SAMPLE RESULTS

Lab ID: L1610895-03
 Client ID: AA-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY

Date Collected: 04/13/16 16:35
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-03

Date Collected: 04/13/16 16:35

Client ID: AA-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	86		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-03
 Client ID: AA-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/16 21:39
 Analyst: RY

Date Collected: 04/13/16 16:35
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.405	0.200	--	2.00	0.989	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	83		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-04
 Client ID: IA-SS
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/16 22:13
 Analyst: RY

Date Collected: 04/13/16 16:20
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.620	0.200	--	1.28	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	306	5.00	--	577	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	2.78	0.500	--	6.83	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.678	0.500	--	2.36	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.917	0.500	--	2.70	1.47	--		1
Ethyl Acetate	0.751	0.500	--	2.71	1.80	--		1
Chloroform	0.349	0.200	--	1.70	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-04

Date Collected: 04/13/16 16:20

Client ID: IA-SS

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.299	0.200	--	1.23	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.515	0.200	--	1.94	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-04

Date Collected: 04/13/16 16:20

Client ID: IA-SS

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-04
 Client ID: IA-SS
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/16 22:13
 Analyst: RY

Date Collected: 04/13/16 16:20
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.362	0.200	--	1.79	0.989	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.138	0.020	--	0.868	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	88		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-05 D
 Client ID: SV-RI-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 01:32
 Analyst: RY

Date Collected: 04/13/16 11:40
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	ND	1.00	--	ND	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	ND	5.00	--	ND	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
Isopropanol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Tertiary butyl Alcohol	2.90	2.50	--	8.79	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	4.30	1.00	--	13.4	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-05 D

Date Collected: 04/13/16 11:40

Client ID: SV-RI-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	416	2.50	--	1230	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	4.04	1.00	--	14.2	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	2.46	1.00	--	10.1	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	ND	1.00	--	ND	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5
p/m-Xylene	4.92	2.00	--	21.4	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-05 D

Date Collected: 04/13/16 11:40

Client ID: SV-RI-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	4.02	1.00	--	17.5	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	96		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-05 D
Client ID: SV-RI-1
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 01:32
Analyst: RY

Date Collected: 04/13/16 11:40
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	92		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-06 D
 Client ID: SV-RI-2
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 02:03
 Analyst: RY

Date Collected: 04/13/16 11:17
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.438	0.400	--	0.904	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	92.1	10.0	--	174	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	710	2.00	--	1690	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	3.00	1.00	--	7.37	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	2.81	1.00	--	8.29	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Ethyl Acetate	4.21	1.00	--	15.2	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-06 D

Date Collected: 04/13/16 11:17

Client ID: SV-RI-2

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	49.8	1.00	--	147	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	ND	0.400	--	ND	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	ND	0.400	--	ND	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	ND	0.400	--	ND	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	1.35	0.400	--	5.09	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	ND	0.400	--	ND	1.74	--		2
p/m-Xylene	ND	0.800	--	ND	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-06 D

Date Collected: 04/13/16 11:17

Client ID: SV-RI-2

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.400	--	ND	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	9.42	0.400	--	56.6	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-06 D
Client ID: SV-RI-2
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 02:03
Analyst: RY

Date Collected: 04/13/16 11:17
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	92		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-07
 Client ID: SV-SS-1
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 02:37
 Analyst: RY

Date Collected: 04/13/16 11:47
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.219	0.200	--	0.452	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.5	1.00	--	24.9	2.38	--		1
Trichlorofluoromethane	0.216	0.200	--	1.21	1.12	--		1
Isopropanol	0.536	0.500	--	1.32	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	3.06	0.500	--	9.28	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.36	0.500	--	4.01	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.68	0.200	--	13.1	0.977	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-07

Date Collected: 04/13/16 11:47

Client ID: SV-SS-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.307	0.200	--	1.08	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.19	0.200	--	3.80	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.821	0.200	--	3.36	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.836	0.200	--	3.15	0.754	--		1
2-Hexanone	0.317	0.200	--	1.30	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.279	0.200	--	1.89	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.309	0.200	--	1.34	0.869	--		1
p/m-Xylene	1.14	0.400	--	4.95	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.211	0.200	--	0.898	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-07

Date Collected: 04/13/16 11:47

Client ID: SV-SS-1

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	0.501	0.200	--	2.18	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.213	0.200	--	1.05	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	107		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-07
Client ID: SV-SS-1
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 02:37
Analyst: RY

Date Collected: 04/13/16 11:47
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.323	0.200	--	1.60	0.989	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	104		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-08
 Client ID: SV-SS-2
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 08:24
 Analyst: RY

Date Collected: 04/13/16 11:50
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.495	0.200	--	1.02	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	9.51	5.00	--	17.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.97	1.00	--	4.68	2.38	--		1
Trichlorofluoromethane	0.248	0.200	--	1.39	1.12	--		1
Isopropanol	0.541	0.500	--	1.33	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.00	0.500	--	6.95	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.296	0.200	--	0.922	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.822	0.500	--	2.42	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.632	0.200	--	3.09	0.977	--		1



Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

SAMPLE RESULTS

Lab ID: L1610895-08
 Client ID: SV-SS-2
 Sample Location: 170 RTE 303 ORANGEBURG, NY

Date Collected: 04/13/16 11:50
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	0.616	0.500	--	1.82	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.322	0.200	--	1.13	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.252	0.200	--	0.805	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	1.20	0.200	--	5.55	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.500	0.200	--	2.05	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.05	0.200	--	3.96	0.754	--		1
2-Hexanone	0.246	0.200	--	1.01	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.661	0.200	--	2.87	0.869	--		1
p/m-Xylene	1.47	0.400	--	6.39	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.345	0.200	--	1.47	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-08

Date Collected: 04/13/16 11:50

Client ID: SV-SS-2

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	1.18	0.200	--	5.13	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.259	0.200	--	1.27	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	106		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-08
Client ID: SV-SS-2
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 08:24
Analyst: RY

Date Collected: 04/13/16 11:50
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.270	0.200	--	1.34	0.989	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	101		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-09
Client ID: SV-SS-3
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/21/16 08:58
Analyst: RY

Date Collected: 04/13/16 12:12
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	1.06	0.200	--	2.19	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.83	1.00	--	13.8	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	3.39	0.500	--	8.33	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.28	0.500	--	3.88	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.248	0.200	--	1.00	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.68	0.500	--	4.95	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-09

Date Collected: 04/13/16 12:12

Client ID: SV-SS-3

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.584	0.200	--	1.87	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.223	0.200	--	0.768	0.688	--		1
1,2-Dichloropropane	0.259	0.200	--	1.20	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.277	0.200	--	1.29	0.934	--		1
Heptane	0.262	0.200	--	1.07	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.643	0.200	--	2.42	0.754	--		1
2-Hexanone	1.37	0.200	--	5.61	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.796	0.200	--	5.40	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.356	0.200	--	1.55	0.869	--		1
p/m-Xylene	0.894	0.400	--	3.88	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-09

Date Collected: 04/13/16 12:12

Client ID: SV-SS-3

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	0.610	0.200	--	2.65	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.387	0.200	--	1.90	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	123		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	115		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-09
Client ID: SV-SS-3
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 08:58
Analyst: RY

Date Collected: 04/13/16 12:12
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	117		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	110		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-10
 Client ID: SV-RI-1 DUP
 Sample Location: 170 RTE 303 ORANGEBURG, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/16 04:17
 Analyst: RY

Date Collected: 04/13/16 15:40
 Date Received: 04/13/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloromethane	0.329	0.200	--	0.679	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.56	1.00	--	3.71	2.38	--		1
Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.635	0.500	--	1.92	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.57	0.200	--	4.89	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.835	0.500	--	2.46	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.418	0.200	--	2.04	0.977	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-10

Date Collected: 04/13/16 15:40

Client ID: SV-RI-1 DUP

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	94.7	0.500	--	279	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.401	0.200	--	1.51	0.754	--		1
2-Hexanone	0.418	0.200	--	1.71	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	2.17	0.400	--	9.43	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-10

Date Collected: 04/13/16 15:40

Client ID: SV-RI-1 DUP

Date Received: 04/13/16

Sample Location: 170 RTE 303 ORANGEBURG, NY

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	1.92	0.200	--	8.34	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.292	0.200	--	1.44	0.983	--		1
1,2,4-Trimethylbenzene	0.496	0.200	--	2.44	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	134		60-140
Bromochloromethane	120		60-140
chlorobenzene-d5	128		60-140



Project Name: ORANGEBURG COMMONS**Lab Number:** L1610895**Project Number:** OC**Report Date:** 04/21/16**SAMPLE RESULTS**

Lab ID: L1610895-10
Client ID: SV-RI-1 DUP
Sample Location: 170 RTE 303 ORANGEBURG, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/21/16 04:17
Analyst: RY

Date Collected: 04/13/16 15:40
Date Received: 04/13/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.506	0.200	--	2.50	0.989	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	127		60-140
bromochloromethane	114		60-140
chlorobenzene-d5	123		60-140



Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG885593-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1



Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG885593-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG885593-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG885595-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1



Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG885595-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/20/16 15:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG885595-4								
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG885593-3								
Chlorodifluoromethane	70		-		70-130	-		
Propylene	70		-		70-130	-		
Propane	67	Q	-		70-130	-		
Chloromethane	79		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	84		-		70-130	-		
Methanol	73		-		70-130	-		
Vinyl chloride	82		-		70-130	-		
1,3-Butadiene	88		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	95		-		70-130	-		
Chloroethane	85		-		70-130	-		
Ethyl Alcohol	93		-		70-130	-		
Dichlorofluoromethane	84		-		70-130	-		
Vinyl bromide	85		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	91		-		70-130	-		
Acetonitrile	88		-		70-130	-		
Trichlorofluoromethane	90		-		70-130	-		
iso-Propyl Alcohol	88		-		70-130	-		
Acrylonitrile	92		-		70-130	-		
Pentane	98		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG885593-3								
Ethyl ether	104		-		70-130	-		
1,1-Dichloroethene	96		-		70-130	-		
tert-Butyl Alcohol	90		-		70-130	-		
Methylene chloride	110		-		70-130	-		
3-Chloropropene	108		-		70-130	-		
Carbon disulfide	95		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		-		70-130	-		
trans-1,2-Dichloroethene	75		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	76		-		70-130	-		
Vinyl acetate	118		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		
Ethyl Acetate	86		-		70-130	-		
Chloroform	86		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
2,2-Dichloropropane	78		-		70-130	-		
1,2-Dichloroethane	83		-		70-130	-		
n-Hexane	108		-		70-130	-		
Isopropyl Ether	96		-		70-130	-		
Ethyl-Tert-Butyl-Ether	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG885593-3								
1,1,1-Trichloroethane	104		-		70-130	-		
1,1-Dichloropropene	97		-		70-130	-		
Benzene	100		-		70-130	-		
Carbon tetrachloride	104		-		70-130	-		
Cyclohexane	107		-		70-130	-		
Tertiary-Amyl Methyl Ether	92		-		70-130	-		
Dibromomethane	98		-		70-130	-		
1,2-Dichloropropane	110		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	113		-		70-130	-		
Methyl Methacrylate	104		-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	118		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	92		-		70-130	-		
1,3-Dichloropropane	96		-		70-130	-		
2-Hexanone	118		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG885593-3								
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Butyl Acetate	95		-		70-130	-		
Octane	89		-		70-130	-		
Tetrachloroethene	96		-		70-130	-		
1,1,1,2-Tetrachloroethane	92		-		70-130	-		
Chlorobenzene	96		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	100		-		70-130	-		
Bromoform	106		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	113		-		70-130	-		
o-Xylene	104		-		70-130	-		
1,2,3-Trichloropropane	98		-		70-130	-		
Nonane (C9)	111		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	94		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	96		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		
4-Ethyltoluene	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG885593-3								
1,3,5-Trimethylbenzene	100		-		70-130	-		
tert-Butylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Decane (C10)	105		-		70-130	-		
Benzyl chloride	111		-		70-130	-		
1,3-Dichlorobenzene	105		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
sec-Butylbenzene	100		-		70-130	-		
p-Isopropyltoluene	92		-		70-130	-		
1,2-Dichlorobenzene	100		-		70-130	-		
n-Butylbenzene	102		-		70-130	-		
1,2-Dibromo-3-chloropropane	96		-		70-130	-		
Undecane	107		-		70-130	-		
Dodecane (C12)	114		-		70-130	-		
1,2,4-Trichlorobenzene	106		-		70-130	-		
Naphthalene	96		-		70-130	-		
1,2,3-Trichlorobenzene	97		-		70-130	-		
Hexachlorobutadiene	111		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG885595-3								
Propylene	83		-		70-130	-		25
Dichlorodifluoromethane	72		-		70-130	-		25
Chloromethane	87		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	86		-		70-130	-		25
Vinyl chloride	89		-		70-130	-		25
1,3-Butadiene	99		-		70-130	-		25
Bromomethane	88		-		70-130	-		25
Chloroethane	92		-		70-130	-		25
Ethyl Alcohol	109		-		70-130	-		25
Vinyl bromide	86		-		70-130	-		25
Acetone	94		-		70-130	-		25
Trichlorofluoromethane	92		-		70-130	-		25
iso-Propyl Alcohol	95		-		70-130	-		25
Acrylonitrile	101		-		70-130	-		25
1,1-Dichloroethene	97		-		70-130	-		25
Methylene chloride	110		-		70-130	-		25
3-Chloropropene	112		-		70-130	-		25
Carbon disulfide	93		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		-		70-130	-		25
Halothane	60	Q	-		70-130	-		25
trans-1,2-Dichloroethene	73		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG885595-3								
1,1-Dichloroethane	87		-		70-130	-		25
Methyl tert butyl ether	76		-		70-130	-		25
Vinyl acetate	114		-		70-130	-		25
2-Butanone	92		-		70-130	-		25
cis-1,2-Dichloroethene	92		-		70-130	-		25
Ethyl Acetate	91		-		70-130	-		25
Chloroform	88		-		70-130	-		25
Tetrahydrofuran	89		-		70-130	-		25
1,2-Dichloroethane	84		-		70-130	-		25
n-Hexane	107		-		70-130	-		25
1,1,1-Trichloroethane	104		-		70-130	-		25
Benzene	100		-		70-130	-		25
Carbon tetrachloride	108		-		70-130	-		25
Cyclohexane	104		-		70-130	-		25
1,2-Dichloropropane	110		-		70-130	-		25
Bromodichloromethane	106		-		70-130	-		25
1,4-Dioxane	98		-		70-130	-		25
Trichloroethene	97		-		70-130	-		25
2,2,4-Trimethylpentane	113		-		70-130	-		25
cis-1,3-Dichloropropene	105		-		70-130	-		25
4-Methyl-2-pentanone	124		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG885595-3								
trans-1,3-Dichloropropene	91		-		70-130	-		25
1,1,2-Trichloroethane	106		-		70-130	-		25
Toluene	92		-		70-130	-		25
2-Hexanone	122		-		70-130	-		25
Dibromochloromethane	103		-		70-130	-		25
1,2-Dibromoethane	99		-		70-130	-		25
Tetrachloroethene	93		-		70-130	-		25
1,1,1,2-Tetrachloroethane	93		-		70-130	-		25
Chlorobenzene	95		-		70-130	-		25
Ethylbenzene	96		-		70-130	-		25
p/m-Xylene	100		-		70-130	-		25
Bromoform	108		-		70-130	-		25
Styrene	99		-		70-130	-		25
1,1,2,2-Tetrachloroethane	109		-		70-130	-		25
o-Xylene	102		-		70-130	-		25
Isopropylbenzene	97		-		70-130	-		25
4-Ethyltoluene	102		-		70-130	-		25
1,3,5-Trimethylbenzene	98		-		70-130	-		25
1,2,4-Trimethylbenzene	105		-		70-130	-		25
Benzyl chloride	113		-		70-130	-		25
1,3-Dichlorobenzene	103		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG885595-3								
1,4-Dichlorobenzene	94		-		70-130	-		25
sec-Butylbenzene	101		-		70-130	-		25
p-Isopropyltoluene	93		-		70-130	-		25
1,2-Dichlorobenzene	97		-		70-130	-		25
n-Butylbenzene	108		-		70-130	-		25
1,2,4-Trichlorobenzene	99		-		70-130	-		25
Naphthalene	102		-		70-130	-		25
1,2,3-Trichlorobenzene	101		-		70-130	-		25
Hexachlorobutadiene	110		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG885593-5 QC Sample: L1610220-02 Client ID: DUP Sample						
Chloromethane	0.504	0.573	ppbV	13		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	6.23	6.45	ppbV	3		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	31.9	33.4	ppbV	5		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	0.644	0.647	ppbV	0		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	1.78	1.81	ppbV	2		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	13.1	13.7	ppbV	4		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	4.48	3.78	ppbV	17		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG885593-5 QC Sample: L1610220-02 Client ID: DUP Sample					
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	0.391	0.434	ppbV	10	25
Tetrahydrofuran	29.3	30.6	ppbV	4	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.339	0.355	ppbV	5	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG885593-5 QC Sample: L1610220-02 Client ID: DUP Sample					
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.214	0.230	ppbV	7	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.247	0.262	ppbV	6	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Project Number: OC

Lab Number: L1610895

Report Date: 04/21/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG885595-5 QC Sample: L1610220-02 Client ID: DUP Sample					
Dichlorodifluoromethane	0.335	0.415	ppbV	21	25
Vinyl chloride	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.081	0.085	ppbV	5	25
Trichloroethene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25

Project Name: ORANGEBURG COMMONS

Serial_No:04211615:25
 Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1610895-01	IA-RI-1	0769	#4 AMB	04/11/16	220311		-	-	-	Pass	9.8	10.2	4
L1610895-01	IA-RI-1	965	6.0L Can	04/11/16	220311	L1609657-02	Pass	-29.3	-6.4	-	-	-	-
L1610895-02	IA-RI-2	0080	#90 SV	04/11/16	220311		-	-	-	Pass	9.8	11.4	15
L1610895-02	IA-RI-2	806	6.0L Can	04/11/16	220311	L1609657-02	Pass	-29.0	-3.6	-	-	-	-
L1610895-03	AA-1	0909	#4 AMB	04/11/16	220311		-	-	-	Pass	10.0	9.9	1
L1610895-03	AA-1	2066	6.0L Can	04/11/16	220311	L1609657-02	Pass	-29.4	-14.0	-	-	-	-
L1610895-04	IA-SS	0696	#16 AMB	04/11/16	220311		-	-	-	Pass	10.0	10.9	9
L1610895-04	IA-SS	925	6.0L Can	04/11/16	220311	L1609657-02	Pass	-29.3	-4.8	-	-	-	-
L1610895-05	SV-RI-1	0756	#30 SV	04/11/16	220311		-	-	-	Pass	17.6	16.0	10
L1610895-05	SV-RI-1	2034	2.7L Can	04/11/16	220311	L1610070-02	Pass	-29.4	-5.3	-	-	-	-
L1610895-06	SV-RI-2	0076	#16 AMB	04/11/16	220311		-	-	-	Pass	18.0	20.1	11
L1610895-06	SV-RI-2	123	2.7L Can	04/11/16	220311	L1610070-02	Pass	-29.3	0	-	-	-	-
L1610895-07	SV-SS-1	0244	#20 AMB	04/11/16	220311		-	-	-	Pass	17.8	19.3	8
L1610895-07	SV-SS-1	522	2.7L Can	04/11/16	220311	L1610070-02	Pass	-29.3	-4.3	-	-	-	-
L1610895-08	SV-SS-2	0215	#16 AMB	04/11/16	220311		-	-	-	Pass	17.7	20.6	15

Project Name: ORANGEBURG COMMONS

Serial_No:04211615:25
Lab Number: L1610895

Project Number: OC

Report Date: 04/21/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1610895-08	SV-SS-2	545	2.7L Can	04/11/16	220311	L1610070-02	Pass	-28.4	-0.8	-	-	-	-
L1610895-09	SV-SS-3	0216	#30 SV	04/11/16	220311		-	-	-	Pass	18.0	11.6	43
L1610895-09	SV-SS-3	2237	2.7L Can	04/11/16	220311	L1610070-02	Pass	-29.3	-5.5	-	-	-	-
L1610895-10	SV-RI-1 DUP	0271	#90 AMB	04/11/16	220311		-	-	-	Pass	18.0	23.2	25
L1610895-10	SV-RI-1 DUP	373	2.7L Can	04/11/16	220311	L1610070-02	Pass	-29.3	0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02
 Client ID: CAN 1663 SHELF 52
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/04/16 17:42
 Analyst: MB

Date Collected: 04/04/16 12:00
 Date Received: 04/04/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02 Date Collected: 04/04/16 12:00
 Client ID: CAN 1663 SHELF 52 Date Received: 04/04/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02 Date Collected: 04/04/16 12:00
 Client ID: CAN 1663 SHELF 52 Date Received: 04/04/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02
 Client ID: CAN 1663 SHELF 52
 Sample Location:

Date Collected: 04/04/16 12:00
 Date Received: 04/04/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1609657**Project Number:** CANISTER QC BAT**Report Date:** 04/21/16**Air Canister Certification Results**

Lab ID: L1609657-02

Date Collected: 04/04/16 12:00

Client ID: CAN 1663 SHELF 52

Date Received: 04/04/16

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02
 Client ID: CAN 1663 SHELF 52
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/04/16 17:42
 Analyst: MB

Date Collected: 04/04/16 12:00
 Date Received: 04/04/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02 Date Collected: 04/04/16 12:00
 Client ID: CAN 1663 SHELF 52 Date Received: 04/04/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1609657
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1609657-02 Date Collected: 04/04/16 12:00
 Client ID: CAN 1663 SHELF 52 Date Received: 04/04/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02
 Client ID: CAN 2043 SHELF 14
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/07/16 10:41
 Analyst: RY

Date Collected: 04/06/16 16:00
 Date Received: 04/07/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02 Date Collected: 04/06/16 16:00
 Client ID: CAN 2043 SHELF 14 Date Received: 04/07/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02 Date Collected: 04/06/16 16:00
 Client ID: CAN 2043 SHELF 14 Date Received: 04/07/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02
 Client ID: CAN 2043 SHELF 14
 Sample Location:

Date Collected: 04/06/16 16:00
 Date Received: 04/07/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02 Date Collected: 04/06/16 16:00
 Client ID: CAN 2043 SHELF 14 Date Received: 04/07/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02
 Client ID: CAN 2043 SHELF 14
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/07/16 10:41
 Analyst: RY

Date Collected: 04/06/16 16:00
 Date Received: 04/07/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02 Date Collected: 04/06/16 16:00
 Client ID: CAN 2043 SHELF 14 Date Received: 04/07/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1610070
Report Date: 04/21/16

Air Canister Certification Results

Lab ID: L1610070-02
 Client ID: CAN 2043 SHELF 14
 Sample Location:

Date Collected: 04/06/16 16:00
 Date Received: 04/07/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: ORANGEBURG COMMONS**Project Number:** OC**Lab Number:** L1610895**Report Date:** 04/21/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1610895-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-02A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-03A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-04A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-05A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-06A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-07A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-08A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-09A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1610895-10A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

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).
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.
LCS D	- 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.
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.
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

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.

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.

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).

Report Format: Data Usability Report



Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

Data Qualifiers

- 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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: ORANGEBURG COMMONS
Project Number: OC

Lab Number: L1610895
Report Date: 04/21/16

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: 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.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, 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, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: Orangeburg Commons

Project Location: 170 Rte 303

Project #: OC

Project Manager: Matt Carroll

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Date Rec'd in Lab: 4/14/16

Report Information - Data Deliverables

FAX
 ADEx

Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)

Other Formats:

EMAIL (standard pdf report)
 Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L1610895

Billing Information

Same as Client info PO #:

Client Information

Client: Tenen Environmental

Address: 121 W 27th St #303
New York, NY

Phone: 646 6062332

Fax:

Email: mcarroll@tenen-env.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
10895-01	IA-RI-1	4/13/16	0806	1610	30.64	-6.34	AA	KM	6	965	0769	X					
-02	IA-RI-2	4/13/16	0807	1610	30.02	-3.30	AA	KM	6	806	0080	X					
-03	AA-1	4/13/16	0816	1635	30.62	-14.12	AA	KM	6	2066	0909	X					
-04	IA-SS	4/13/16	0825	1620	30.08	-4.86	AA	KM	6	925	0696	X					
-05	SV-RI-1	4/13/16	0905	1140	30.41	-5.44	SV	KM	2.75	2034	0756	X					
-06	SV-RI-2	4/13/16	0917	1117	30.34	-0.01	SV	KM	2.75	123	0076	X					
-07	SV-SS-1	4/13/16	0947	1147	30.12	-4.90	SV	KM	2.75	522	0244	X					
-08	SV-SS-2	4/13/16	0950	1150	27.20	-1.28	SV	KM	2.75	545	0215	X					
-09	SV-SS-3	4/13/16	0959	1212	30.41	-5.77	SV	KM	2.75	2257	0216	X					
-10	SV-RI-1 DUP	4/13/16	1340	1540	30.32	0.0	SV	KM	2.75	373	0221	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Rec'd: Al Williams

Relinquished By: [Signature] Date/Time: 4/13/16 1830
 Received By: [Signature] Date/Time: 4-13-16 1830
Tom [Signature] 4-13-16 2200
Al Williams 4-13-16 2200
[Signature] 4-14-16 1:40
[Signature] 4-14-16 1:40



ANALYTICAL REPORT

Lab Number:	L1711542
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	ORANGEBURG COMMONS
Project Number:	ORANGEBURG COMMONS
Report Date:	04/19/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1711542-01	FIELD BLANK	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 15:15	04/12/17
L1711542-02	MW-3R	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 14:25	04/12/17
L1711542-03	MW-7R2	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 09:50	04/12/17
L1711542-04	MW-2R2	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 16:05	04/12/17
L1711542-05	MW-6R	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 09:25	04/12/17
L1711542-06	MW-13	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 08:15	04/12/17
L1711542-07	MW-12	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 11:10	04/12/17
L1711542-08	MW-12 DUP	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 11:30	04/12/17
L1711542-09	TRIP BLANK	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 00:00	04/12/17
L1711542-10	MW-8R	WATER	1 STEVEN'S WAY, ORANGEBURG, NY	04/12/17 16:20	04/12/17

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

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: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

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.

Semivolatile Organics

The WG994523-4/-5 MS/MSD recoveries, performed on L1711542-02, are below the acceptance criteria for benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Semivolatile Organics by SIM

L1711542-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 04/19/17

ORGANICS

VOLATILES

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01
 Client ID: FIELD BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 14:33
 Analyst: NL

Date Collected: 04/12/17 15:15
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01
 Client ID: FIELD BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 15:15
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01

Date Collected: 04/12/17 15:15

Client ID: FIELD BLANK

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02
 Client ID: MW-3R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 22:36
 Analyst: PD

Date Collected: 04/12/17 14:25
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02
 Client ID: MW-3R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 14:25
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02

Date Collected: 04/12/17 14:25

Client ID: MW-3R

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03
 Client ID: MW-7R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 15:05
 Analyst: NL

Date Collected: 04/12/17 09:50
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.18	J	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03

Date Collected: 04/12/17 09:50

Client ID: MW-7R2

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	4.3		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03

Date Collected: 04/12/17 09:50

Client ID: MW-7R2

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04 D
 Client ID: MW-2R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 23:32
 Analyst: PD

Date Collected: 04/12/17 16:05
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	20	5.8	40
1,1-Dichloropropene	ND		ug/l	100	28.	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
1,3-Dichlorobenzene	ND		ug/l	100	28.	40

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04 D
 Client ID: MW-2R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 16:05
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
1,4-Dichlorobenzene	ND		ug/l	100	28.	40
Methyl tert butyl ether	ND		ug/l	100	28.	40
p/m-Xylene	ND		ug/l	100	28.	40
o-Xylene	ND		ug/l	100	28.	40
Xylenes, Total	ND		ug/l	100	28.	40
cis-1,2-Dichloroethene	ND		ug/l	100	28.	40
1,2-Dichloroethene, Total	ND		ug/l	100	28.	40
Dibromomethane	ND		ug/l	200	40.	40
1,2,3-Trichloropropane	ND		ug/l	100	28.	40
Acrylonitrile	ND		ug/l	200	60.	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
Vinyl acetate	ND		ug/l	200	40.	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
2,2-Dichloropropane	ND		ug/l	100	28.	40
1,2-Dibromoethane	ND		ug/l	80	26.	40
1,3-Dichloropropane	ND		ug/l	100	28.	40
1,1,1,2-Tetrachloroethane	ND		ug/l	100	28.	40
Bromobenzene	ND		ug/l	100	28.	40
n-Butylbenzene	ND		ug/l	100	28.	40
sec-Butylbenzene	ND		ug/l	100	28.	40
tert-Butylbenzene	ND		ug/l	100	28.	40
o-Chlorotoluene	ND		ug/l	100	28.	40
p-Chlorotoluene	ND		ug/l	100	28.	40
1,2-Dibromo-3-chloropropane	ND		ug/l	100	28.	40
Hexachlorobutadiene	ND		ug/l	100	28.	40
Isopropylbenzene	ND		ug/l	100	28.	40
p-Isopropyltoluene	ND		ug/l	100	28.	40
Naphthalene	3200		ug/l	100	28.	40
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	100	28.	40
1,2,4-Trimethylbenzene	ND		ug/l	100	28.	40

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04 D
 Client ID: MW-2R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 16:05
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	10000	2400	40
p-Diethylbenzene	ND		ug/l	80	28.	40
p-Ethyltoluene	ND		ug/l	80	28.	40
1,2,4,5-Tetramethylbenzene	ND		ug/l	80	22.	40
Ethyl ether	ND		ug/l	100	28.	40
trans-1,4-Dichloro-2-butene	ND		ug/l	100	28.	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-05
 Client ID: MW-6R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 15:37
 Analyst: BD

Date Collected: 04/12/17 09:25
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMO

Report Date: 04/19/17

SAMPLE RESULTS

Lab ID: L1711542-05
 Client ID: MW-6R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 09:25
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-05

Date Collected: 04/12/17 09:25

Client ID: MW-6R

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06
 Client ID: MW-13
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 17:12
 Analyst: BD

Date Collected: 04/12/17 08:15
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06

Date Collected: 04/12/17 08:15

Client ID: MW-13

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.1	J	ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06

Date Collected: 04/12/17 08:15

Client ID: MW-13

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07
 Client ID: MW-12
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 16:09
 Analyst: BD

Date Collected: 04/12/17 11:10
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07

Date Collected: 04/12/17 11:10

Client ID: MW-12

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07

Date Collected: 04/12/17 11:10

Client ID: MW-12

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08
 Client ID: MW-12 DUP
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 16:40
 Analyst: BD

Date Collected: 04/12/17 11:30
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08
 Client ID: MW-12 DUP
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 11:30
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08

Date Collected: 04/12/17 11:30

Client ID: MW-12 DUP

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-09
 Client ID: TRIP BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 23:04
 Analyst: PD

Date Collected: 04/12/17 00:00
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMO

Report Date: 04/19/17

SAMPLE RESULTS

Lab ID: L1711542-09
 Client ID: TRIP BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 00:00
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.1	J	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-09

Date Collected: 04/12/17 00:00

Client ID: TRIP BLANK

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10 D
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/18/17 23:59
 Analyst: PD

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles by GC/MS						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	ND		ug/l	25	3.4	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	ND		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	ND		ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
1,3-Dichloropropene, Total	ND		ug/l	12	3.6	25
1,1-Dichloropropene	ND		ug/l	62	18.	25
Bromoform	ND		ug/l	50	16.	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	4.2	25
Benzene	ND		ug/l	12	4.0	25
Toluene	ND		ug/l	62	18.	25
Ethylbenzene	ND		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	ND		ug/l	25	1.8	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	4.2	25
trans-1,2-Dichloroethene	ND		ug/l	62	18.	25
Trichloroethene	ND		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25
1,3-Dichlorobenzene	ND		ug/l	62	18.	25

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10 D
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by GC/MS						
1,4-Dichlorobenzene	ND		ug/l	62	18.	25
Methyl tert butyl ether	ND		ug/l	62	18.	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25
Xylenes, Total	ND		ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
1,2-Dichloroethene, Total	ND		ug/l	62	18.	25
Dibromomethane	ND		ug/l	120	25.	25
1,2,3-Trichloropropane	ND		ug/l	62	18.	25
Acrylonitrile	ND		ug/l	120	38.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	ND		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
Vinyl acetate	ND		ug/l	120	25.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
2,2-Dichloropropane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,3-Dichloropropane	ND		ug/l	62	18.	25
1,1,1,2-Tetrachloroethane	ND		ug/l	62	18.	25
Bromobenzene	ND		ug/l	62	18.	25
n-Butylbenzene	ND		ug/l	62	18.	25
sec-Butylbenzene	ND		ug/l	62	18.	25
tert-Butylbenzene	ND		ug/l	62	18.	25
o-Chlorotoluene	ND		ug/l	62	18.	25
p-Chlorotoluene	ND		ug/l	62	18.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Hexachlorobutadiene	ND		ug/l	62	18.	25
Isopropylbenzene	ND		ug/l	62	18.	25
p-Isopropyltoluene	ND		ug/l	62	18.	25
Naphthalene	2400		ug/l	62	18.	25
n-Propylbenzene	ND		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
1,3,5-Trimethylbenzene	ND		ug/l	62	18.	25
1,2,4-Trimethylbenzene	ND		ug/l	62	18.	25

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10 D
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS						
1,4-Dioxane	ND		ug/l	6200	1500	25
p-Diethylbenzene	ND		ug/l	50	18.	25
p-Ethyltoluene	ND		ug/l	50	18.	25
1,2,4,5-Tetramethylbenzene	ND		ug/l	50	14.	25
Ethyl ether	ND		ug/l	62	18.	25
trans-1,4-Dichloro-2-butene	ND		ug/l	62	18.	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 09:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 01,03,05-08 Batch: WG995301-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 09:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 01,03,05-08 Batch: WG995301-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 09:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 01,03,05-08 Batch: WG995301-5					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 15:37
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 02,04,09-10 Batch: WG995399-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 15:37
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 02,04,09-10 Batch: WG995399-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/18/17 15:37
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS for sample(s): 02,04,09-10 Batch: WG995399-5					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 01,03,05-08 Batch: WG995301-3 WG995301-4								
Methylene chloride	110		120		70-130	9		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	120		130		63-132	8		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	120		120		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	92		100		62-150	8		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		120		67-130	9		20
Bromodichloromethane	110		120		67-130	9		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	110		110		54-136	0		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		120		70-130	9		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 01,03,05-08 Batch: WG995301-3 WG995301-4								
Chloromethane	93		110		64-130	17		20
Bromomethane	120		120		39-139	0		20
Vinyl chloride	89		95		55-140	7		20
Chloroethane	98		110		55-138	12		20
1,1-Dichloroethene	89		97		61-145	9		20
trans-1,2-Dichloroethene	110		120		70-130	9		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		120		70-130	9		20
Dibromomethane	110		120		70-130	9		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	120		120		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	110		140		36-147	24	Q	20
Acetone	68		76		58-148	11		20
Carbon disulfide	110		130		51-130	17		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 01,03,05-08 Batch: WG995301-3 WG995301-4								
2-Butanone	98		96		63-138	2		20
Vinyl acetate	94		93		70-130	1		20
4-Methyl-2-pentanone	85		86		59-130	1		20
2-Hexanone	86		82		57-130	5		20
Bromochloromethane	120		130		70-130	8		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	110		100		70-130	10		20
1,1,1,2-Tetrachloroethane	120		120		64-130	0		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	83		79		41-144	5		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	72		72		70-130	0		20
n-Propylbenzene	110		110		69-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS Associated sample(s): 01,03,05-08 Batch: WG995301-3 WG995301-4								
1,2,3-Trichlorobenzene	77		79		70-130	3		20
1,2,4-Trichlorobenzene	83		84		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	98		104		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	120		120		70-130	0		20
Ethyl ether	89		87		59-134	2		20
trans-1,4-Dichloro-2-butene	91		84		70-130	8		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	102		98		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	105		107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 Batch: WG995399-3 WG995399-4								
Methylene chloride	98		98		70-130	0		20
1,1-Dichloroethane	97		100		70-130	3		20
Chloroform	96		97		70-130	1		20
Carbon tetrachloride	94		99		63-132	5		20
1,2-Dichloropropane	99		99		70-130	0		20
Dibromochloromethane	96		90		63-130	6		20
1,1,2-Trichloroethane	100		95		70-130	5		20
Tetrachloroethene	93		99		70-130	6		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		94		70-130	6		20
1,1,1-Trichloroethane	94		99		67-130	5		20
Bromodichloromethane	96		94		67-130	2		20
trans-1,3-Dichloropropene	98		90		70-130	9		20
cis-1,3-Dichloropropene	97		92		70-130	5		20
1,1-Dichloropropene	95		100		70-130	5		20
Bromoform	93		86		54-136	8		20
1,1,2,2-Tetrachloroethane	100		90		67-130	11		20
Benzene	95		99		70-130	4		20
Toluene	95		100		70-130	5		20
Ethylbenzene	93		100		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 Batch: WG995399-3 WG995399-4								
Chloromethane	120		120		64-130	0		20
Bromomethane	100		100		39-139	0		20
Vinyl chloride	120		130		55-140	8		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	99		100		61-145	1		20
trans-1,2-Dichloroethene	98		100		70-130	2		20
Trichloroethene	96		98		70-130	2		20
1,2-Dichlorobenzene	98		96		70-130	2		20
1,3-Dichlorobenzene	95		98		70-130	3		20
1,4-Dichlorobenzene	95		97		70-130	2		20
Methyl tert butyl ether	110		94		63-130	16		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	96		98		70-130	2		20
Dibromomethane	100		92		70-130	8		20
1,2,3-Trichloropropane	100		93		64-130	7		20
Acrylonitrile	100		88		70-130	13		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	92		86		58-148	7		20
Carbon disulfide	180	Q	220	Q	51-130	20		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 Batch: WG995399-3 WG995399-4								
2-Butanone	100		84		63-138	17		20
Vinyl acetate	110		95		70-130	15		20
4-Methyl-2-pentanone	100		86		59-130	15		20
2-Hexanone	100		80		57-130	22	Q	20
Bromochloromethane	100		98		70-130	2		20
2,2-Dichloropropane	98		96		63-133	2		20
1,2-Dibromoethane	99		91		70-130	8		20
1,3-Dichloropropane	100		95		70-130	5		20
1,1,1,2-Tetrachloroethane	96		95		64-130	1		20
Bromobenzene	96		98		70-130	2		20
n-Butylbenzene	95		100		53-136	5		20
sec-Butylbenzene	94		100		70-130	6		20
tert-Butylbenzene	95		100		70-130	5		20
o-Chlorotoluene	95		100		70-130	5		20
p-Chlorotoluene	94		100		70-130	6		20
1,2-Dibromo-3-chloropropane	88		79		41-144	11		20
Hexachlorobutadiene	95		100		63-130	5		20
Isopropylbenzene	92		100		70-130	8		20
p-Isopropyltoluene	95		100		70-130	5		20
Naphthalene	100		85		70-130	16		20
n-Propylbenzene	93		100		69-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 Batch: WG995399-3 WG995399-4								
1,2,3-Trichlorobenzene	97		80		70-130	19		20
1,2,4-Trichlorobenzene	99		92		70-130	7		20
1,3,5-Trimethylbenzene	94		100		64-130	6		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
1,4-Dioxane	80		82		56-162	2		20
p-Diethylbenzene	96		100		70-130	4		20
p-Ethyltoluene	94		100		70-130	6		20
1,2,4,5-Tetramethylbenzene	98		99		70-130	1		20
Ethyl ether	110		98		59-134	12		20
trans-1,4-Dichloro-2-butene	98		79		70-130	21	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		94		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	101		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 QC Batch ID: WG995399-6 WG995399-7 QC Sample: L1711542-02 Client ID: MW-3R												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	ND	10	11	110		12	120		70-130	9		20
Carbon tetrachloride	ND	10	11	110		11	110		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		12	120		70-130	9		20
Dibromochloromethane	ND	10	10	100		11	110		63-130	10		20
1,1,2-Trichloroethane	ND	10	11	110		12	120		70-130	9		20
Tetrachloroethene	ND	10	10	100		11	110		70-130	10		20
Chlorobenzene	ND	10	10	100		11	110		75-130	10		20
Trichlorofluoromethane	ND	10	12	120		13	130		62-150	8		20
1,2-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		12	120		67-130	9		20
Bromodichloromethane	ND	10	11	110		12	120		67-130	9		20
trans-1,3-Dichloropropene	ND	10	11	110		11	110		70-130	0		20
cis-1,3-Dichloropropene	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloropropene	ND	10	11	110		12	120		70-130	9		20
Bromoform	ND	10	9.5	95		10	100		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		12	120		67-130	9		20
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	10	100		11	110		70-130	10		20
Ethylbenzene	ND	10	10	100		11	110		70-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 QC Batch ID: WG995399-6 WG995399-7 QC Sample: L1711542-02 Client ID: MW-3R												
Chloromethane	ND	10	14	140	Q	15	150	Q	64-130	7		20
Bromomethane	ND	10	7.9	79		9.6	96		39-139	19		20
Vinyl chloride	ND	10	14	140		15	150	Q	55-140	7		20
Chloroethane	ND	10	13	130		14	140	Q	55-138	7		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
trans-1,2-Dichloroethene	ND	10	11	110		12	120		70-130	9		20
Trichloroethene	ND	10	10	100		11	110		70-130	10		20
1,2-Dichlorobenzene	ND	10	10	100		11	110		70-130	10		20
1,3-Dichlorobenzene	ND	10	9.9	99		11	110		70-130	11		20
1,4-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
Methyl tert butyl ether	ND	10	12	120		13	130		63-130	8		20
p/m-Xylene	ND	20	20	100		22	110		70-130	10		20
o-Xylene	ND	20	21	105		22	110		70-130	5		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Dibromomethane	ND	10	11	110		12	120		70-130	9		20
1,2,3-Trichloropropane	ND	10	11	110		12	120		64-130	9		20
Acrylonitrile	ND	10	12	120		13	130		70-130	8		20
Styrene	ND	20	21	105		22	110		70-130	5		20
Dichlorodifluoromethane	ND	10	14	140		15	150	Q	36-147	7		20
Acetone	ND	10	12	120		12	120		58-148	0		20
Carbon disulfide	ND	10	10	100		11	110		51-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 QC Batch ID: WG995399-6 WG995399-7 QC Sample: L1711542-02 Client ID: MW-3R												
2-Butanone	ND	10	10	100		12	120		63-138	18		20
Vinyl acetate	ND	10	13	130		14	140	Q	70-130	7		20
4-Methyl-2-pentanone	ND	10	12	120		13	130		59-130	8		20
2-Hexanone	ND	10	12	120		13	130		57-130	8		20
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
2,2-Dichloropropane	ND	10	11	110		12	120		63-133	9		20
1,2-Dibromoethane	ND	10	11	110		11	110		70-130	0		20
1,3-Dichloropropane	ND	10	11	110		12	120		70-130	9		20
1,1,1,2-Tetrachloroethane	ND	10	10	100		11	110		64-130	10		20
Bromobenzene	ND	10	10	100		11	110		70-130	10		20
n-Butylbenzene	ND	10	9.7	97		10	100		53-136	3		20
sec-Butylbenzene	ND	10	9.8	98		10	100		70-130	2		20
tert-Butylbenzene	ND	10	9.9	99		11	110		70-130	11		20
o-Chlorotoluene	ND	10	9.9	99		11	110		70-130	11		20
p-Chlorotoluene	ND	10	9.9	99		11	110		70-130	11		20
1,2-Dibromo-3-chloropropane	ND	10	9.5	95		10	100		41-144	5		20
Hexachlorobutadiene	ND	10	8.7	87		10	100		63-130	14		20
Isopropylbenzene	ND	10	9.8	98		10	100		70-130	2		20
p-Isopropyltoluene	ND	10	9.8	98		10	100		70-130	2		20
Naphthalene	ND	10	20	200	Q	15	150	Q	70-130	29	Q	20
n-Propylbenzene	ND	10	9.8	98		10	100		69-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS Associated sample(s): 02,04,09-10 QC Batch ID: WG995399-6 WG995399-7 QC Sample: L1711542-02 Client ID: MW-3R												
1,2,3-Trichlorobenzene	ND	10	11	110		13	130		70-130	17		20
1,2,4-Trichlorobenzene	ND	10	10	100		12	120		70-130	18		20
1,3,5-Trimethylbenzene	ND	10	10	100		10	100		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	10	100		11	110		70-130	10		20
1,4-Dioxane	ND	500	390	78		530	106		56-162	30	Q	20
p-Diethylbenzene	ND	10	9.8	98		11	110		70-130	12		20
p-Ethyltoluene	ND	10	10	100		11	110		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	10	100		11	110		70-130	10		20
Ethyl ether	ND	10	12	120		12	120		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	11	110		12	120		70-130	9		20

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	108		108		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	101		101		70-130
Toluene-d8	101		100		70-130

SEMIVOLATILES

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01
 Client ID: FIELD BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 02:17
 Analyst: SZ

Date Collected: 04/12/17 15:15
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01
 Client ID: FIELD BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Date Collected: 04/12/17 15:15
 Date Received: 04/12/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	52		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-01
 Client ID: FIELD BLANK
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 12:48
 Analyst: KL

Date Collected: 04/12/17 15:15
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.09	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	80		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02
 Client ID: MW-3R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 02:43
 Analyst: SZ

Date Collected: 04/12/17 14:25
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02

Date Collected: 04/12/17 14:25

Client ID: MW-3R

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	51		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-02
 Client ID: MW-3R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 13:19
 Analyst: KL

Date Collected: 04/12/17 14:25
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	3.1		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	5.1		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.11	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	1.8		ug/l	0.20	0.02	1
Benzo(a)pyrene	1.5		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	2.2		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.78		ug/l	0.20	0.04	1
Chrysene	1.8		ug/l	0.20	0.04	1
Acenaphthylene	0.04	J	ug/l	0.20	0.04	1
Anthracene	0.79		ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.93		ug/l	0.20	0.04	1
Fluorene	1.2		ug/l	0.20	0.04	1
Phenanthrene	0.50		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.27		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.98		ug/l	0.20	0.04	1
Pyrene	4.0		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	74		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03
 Client ID: MW-7R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 03:09
 Analyst: SZ

Date Collected: 04/12/17 09:50
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	3.9		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03

Date Collected: 04/12/17 09:50

Client ID: MW-7R2

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	66.		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	47		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-03 D
 Client ID: MW-7R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 13:51
 Analyst: KL

Date Collected: 04/12/17 09:50
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	28		ug/l	1.0	0.35	10
2-Chloronaphthalene	ND		ug/l	2.0	0.35	10
Fluoranthene	47		ug/l	2.0	0.38	10
Hexachlorobutadiene	ND		ug/l	5.0	0.36	10
Naphthalene	5.6		ug/l	2.0	0.43	10
Benzo(a)anthracene	19		ug/l	2.0	0.18	10
Benzo(a)pyrene	14		ug/l	2.0	0.39	10
Benzo(b)fluoranthene	19		ug/l	2.0	0.16	10
Benzo(k)fluoranthene	7.1		ug/l	2.0	0.42	10
Chrysene	20		ug/l	2.0	0.38	10
Acenaphthylene	ND		ug/l	2.0	0.35	10
Anthracene	10		ug/l	2.0	0.35	10
Benzo(ghi)perylene	8.1		ug/l	2.0	0.42	10
Fluorene	14		ug/l	2.0	0.37	10
Phenanthrene	42		ug/l	2.0	0.15	10
Dibenzo(a,h)anthracene	2.5		ug/l	2.0	0.39	10
Indeno(1,2,3-cd)pyrene	8.4		ug/l	2.0	0.40	10
Pyrene	37		ug/l	2.0	0.40	10
2-Methylnaphthalene	2.4		ug/l	2.0	0.45	10
Pentachlorophenol	ND		ug/l	8.0	2.2	10
Hexachlorobenzene	ND		ug/l	8.0	0.32	10
Hexachloroethane	ND		ug/l	8.0	0.30	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	98		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04
Client ID: MW-2R2
Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/18/17 03:36
Analyst: SZ

Date Collected: 04/12/17 16:05
Date Received: 04/12/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	13.		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	37.		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04

Date Collected: 04/12/17 16:05

Client ID: MW-2R2

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	14.		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	2.2	J	ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	1.2	J	ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	49.		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	49		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04 D2
Client ID: MW-2R2
Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/17 11:47
Analyst: KL

Date Collected: 04/12/17 16:05
Date Received: 04/12/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	320		ug/l	10	3.5	100
Naphthalene	1600		ug/l	20	4.3	100
2-Methylnaphthalene	150		ug/l	20	4.5	100

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-04 D
 Client ID: MW-2R2
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 14:22
 Analyst: KL

Date Collected: 04/12/17 16:05
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	250	E	ug/l	0.50	0.18	5
2-Chloronaphthalene	ND		ug/l	1.0	0.18	5
Fluoranthene	12		ug/l	1.0	0.19	5
Hexachlorobutadiene	ND		ug/l	2.5	0.18	5
Naphthalene	1100	E	ug/l	1.0	0.22	5
Benzo(a)anthracene	2.3		ug/l	1.0	0.09	5
Benzo(a)pyrene	1.8		ug/l	1.0	0.20	5
Benzo(b)fluoranthene	2.3		ug/l	1.0	0.08	5
Benzo(k)fluoranthene	0.84	J	ug/l	1.0	0.21	5
Chrysene	2.1		ug/l	1.0	0.19	5
Acenaphthylene	1.2		ug/l	1.0	0.18	5
Anthracene	8.4		ug/l	1.0	0.18	5
Benzo(ghi)perylene	1.0		ug/l	1.0	0.21	5
Fluorene	61		ug/l	1.0	0.18	5
Phenanthrene	38		ug/l	1.0	0.08	5
Dibenzo(a,h)anthracene	0.30	J	ug/l	1.0	0.20	5
Indeno(1,2,3-cd)pyrene	1.1		ug/l	1.0	0.20	5
Pyrene	8.2		ug/l	1.0	0.20	5
2-Methylnaphthalene	140	E	ug/l	1.0	0.22	5
Pentachlorophenol	ND		ug/l	4.0	1.1	5
Hexachlorobenzene	ND		ug/l	4.0	0.16	5
Hexachloroethane	ND		ug/l	4.0	0.15	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	87		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-05
 Client ID: MW-6R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 04:54
 Analyst: SZ

Date Collected: 04/12/17 09:25
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-05

Date Collected: 04/12/17 09:25

Client ID: MW-6R

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	44		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-05
 Client ID: MW-6R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 14:54
 Analyst: KL

Date Collected: 04/12/17 09:25
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	0.21		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.36		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.06	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.18	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	0.18	J	ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.27		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.10	J	ug/l	0.20	0.04	1
Chrysene	0.19	J	ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	0.09	J	ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.14	J	ug/l	0.20	0.04	1
Fluorene	0.11	J	ug/l	0.20	0.04	1
Phenanthrene	0.27		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.14	J	ug/l	0.20	0.04	1
Pyrene	0.32		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	0.70	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	65		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06
 Client ID: MW-13
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 05:20
 Analyst: SZ

Date Collected: 04/12/17 08:15
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	0.88	J	ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06

Date Collected: 04/12/17 08:15

Client ID: MW-13

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	7.4		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	43		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	43		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-06
 Client ID: MW-13
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 15:25
 Analyst: KL

Date Collected: 04/12/17 08:15
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	5.1		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	4.9		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	1.1		ug/l	0.20	0.04	1
Benzo(a)anthracene	0.95		ug/l	0.20	0.02	1
Benzo(a)pyrene	0.70		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	1.0		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.37		ug/l	0.20	0.04	1
Chrysene	0.99		ug/l	0.20	0.04	1
Acenaphthylene	0.05	J	ug/l	0.20	0.04	1
Anthracene	1.5		ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.48		ug/l	0.20	0.04	1
Fluorene	2.8		ug/l	0.20	0.04	1
Phenanthrene	3.4		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.15	J	ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.50		ug/l	0.20	0.04	1
Pyrene	3.6		ug/l	0.20	0.04	1
2-Methylnaphthalene	0.11	J	ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	62		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07
 Client ID: MW-12
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 05:47
 Analyst: SZ

Date Collected: 04/12/17 11:10
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07

Date Collected: 04/12/17 11:10

Client ID: MW-12

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	41		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	39	Q	41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-07
 Client ID: MW-12
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 15:56
 Analyst: KL

Date Collected: 04/12/17 11:10
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.28		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.09	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.18	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	0.23		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.30		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.11	J	ug/l	0.20	0.04	1
Chrysene	0.18	J	ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.14	J	ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.05	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.15	J	ug/l	0.20	0.04	1
Pyrene	0.31		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	61		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08
 Client ID: MW-12 DUP
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 06:13
 Analyst: SZ

Date Collected: 04/12/17 11:30
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08

Date Collected: 04/12/17 11:30

Client ID: MW-12 DUP

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	46		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	48		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-08
 Client ID: MW-12 DUP
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 21:55
 Analyst: DV

Date Collected: 04/12/17 11:30
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.38		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	0.25		ug/l	0.20	0.02	1
Benzo(a)pyrene	0.28		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.42		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.18	J	ug/l	0.20	0.04	1
Chrysene	0.26		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	0.04	J	ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.21		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.07	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.23		ug/l	0.20	0.04	1
Pyrene	0.39		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	86		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/18/17 06:39
 Analyst: SZ

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	8.7		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	41.		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10

Date Collected: 04/12/17 16:20

Client ID: MW-8R

Date Received: 04/12/17

Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	25.		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	1.8	J	ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	56.		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	47		41-149

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10 D2
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/19/17 12:18
 Analyst: KL

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	360		ug/l	5.0	1.8	50
Naphthalene	870		ug/l	10	2.2	50
2-Methylnaphthalene	170		ug/l	10	2.2	50

Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMO**Report Date:** 04/19/17**SAMPLE RESULTS**

Lab ID: L1711542-10 D
 Client ID: MW-8R
 Sample Location: 1 STEVEN'S WAY, ORANGEBURG, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/18/17 16:59
 Analyst: KL

Date Collected: 04/12/17 16:20
 Date Received: 04/12/17
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM						
Acenaphthene	260	E	ug/l	0.50	0.18	5
2-Chloronaphthalene	ND		ug/l	1.0	0.18	5
Fluoranthene	20		ug/l	1.0	0.19	5
Hexachlorobutadiene	ND		ug/l	2.5	0.18	5
Naphthalene	560	E	ug/l	1.0	0.22	5
Benzo(a)anthracene	4.2		ug/l	1.0	0.09	5
Benzo(a)pyrene	3.3		ug/l	1.0	0.20	5
Benzo(b)fluoranthene	4.3		ug/l	1.0	0.08	5
Benzo(k)fluoranthene	1.6		ug/l	1.0	0.21	5
Chrysene	3.8		ug/l	1.0	0.19	5
Acenaphthylene	1.0		ug/l	1.0	0.18	5
Anthracene	12		ug/l	1.0	0.18	5
Benzo(ghi)perylene	1.8		ug/l	1.0	0.21	5
Fluorene	77		ug/l	1.0	0.18	5
Phenanthrene	79		ug/l	1.0	0.08	5
Dibenzo(a,h)anthracene	0.53	J	ug/l	1.0	0.20	5
Indeno(1,2,3-cd)pyrene	2.0		ug/l	1.0	0.20	5
Pyrene	14		ug/l	1.0	0.20	5
2-Methylnaphthalene	130	E	ug/l	1.0	0.22	5
Pentachlorophenol	ND		ug/l	4.0	1.1	5
Hexachlorobenzene	ND		ug/l	4.0	0.16	5
Hexachloroethane	ND		ug/l	4.0	0.15	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	91		41-149

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/17/17 21:55
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS for sample(s): 01-08,10 Batch: WG994523-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/17/17 21:55
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS for sample(s): 01-08,10 Batch: WG994523-1					
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/17/17 21:55
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS for sample(s): 01-08,10 Batch: WG994523-1					
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	22		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	38		23-120
2-Fluorobiphenyl	40		15-120
2,4,6-Tribromophenol	31		10-120
4-Terphenyl-d14	59		41-149

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/16/17 02:21
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM for sample(s): 01-08,10 Batch: WG994525-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
2-Methylnaphthalene	ND		ug/l	0.20	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMM

Report Date: 04/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/16/17 02:21
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/15/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM for sample(s): 01-08,10 Batch: WG994525-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	83		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS Associated sample(s): 01-08,10 Batch: WG994523-2 WG994523-3								
Acenaphthene	54		60		37-111	11		30
1,2,4-Trichlorobenzene	44		56		39-98	24		30
Hexachlorobenzene	59		64		40-140	8		30
Bis(2-chloroethyl)ether	53		61		40-140	14		30
2-Chloronaphthalene	49		58		40-140	17		30
1,2-Dichlorobenzene	40		52		40-140	26		30
1,3-Dichlorobenzene	38	Q	50		40-140	27		30
1,4-Dichlorobenzene	38		51		36-97	29		30
3,3'-Dichlorobenzidine	41		42		40-140	2		30
2,4-Dinitrotoluene	67		69		48-143	3		30
2,6-Dinitrotoluene	63		69		40-140	9		30
Fluoranthene	60		62		40-140	3		30
4-Chlorophenyl phenyl ether	58		62		40-140	7		30
4-Bromophenyl phenyl ether	62		65		40-140	5		30
Bis(2-chloroisopropyl)ether	51		59		40-140	15		30
Bis(2-chloroethoxy)methane	58		66		40-140	13		30
Hexachlorobutadiene	38	Q	48		40-140	23		30
Hexachlorocyclopentadiene	46		56		40-140	20		30
Hexachloroethane	37	Q	48		40-140	26		30
Isophorone	57		65		40-140	13		30
Naphthalene	46		54		40-140	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS Associated sample(s): 01-08,10 Batch: WG994523-2 WG994523-3								
Nitrobenzene	61		70		40-140	14		30
NDPA/DPA	60		62		40-140	3		30
n-Nitrosodi-n-propylamine	57		65		29-132	13		30
Bis(2-ethylhexyl)phthalate	65		70		40-140	7		30
Butyl benzyl phthalate	66		69		40-140	4		30
Di-n-butylphthalate	63		65		40-140	3		30
Di-n-octylphthalate	61		65		40-140	6		30
Diethyl phthalate	61		63		40-140	3		30
Dimethyl phthalate	59		65		40-140	10		30
Benzo(a)anthracene	59		61		40-140	3		30
Benzo(a)pyrene	59		61		40-140	3		30
Benzo(b)fluoranthene	58		62		40-140	7		30
Benzo(k)fluoranthene	60		63		40-140	5		30
Chrysene	58		60		40-140	3		30
Acenaphthylene	54		61		45-123	12		30
Anthracene	59		60		40-140	2		30
Benzo(ghi)perylene	59		61		40-140	3		30
Fluorene	57		61		40-140	7		30
Phenanthrene	57		60		40-140	5		30
Dibenzo(a,h)anthracene	60		63		40-140	5		30
Indeno(1,2,3-cd)pyrene	59		61		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS Associated sample(s): 01-08,10 Batch: WG994523-2 WG994523-3								
Pyrene	59		61		26-127	3		30
Biphenyl	55		64		40-140	15		30
4-Chloroaniline	24	Q	25	Q	40-140	4		30
2-Nitroaniline	64		70		52-143	9		30
3-Nitroaniline	42		44		25-145	5		30
4-Nitroaniline	58		59		51-143	2		30
Dibenzofuran	55		60		40-140	9		30
2-Methylnaphthalene	46		55		40-140	18		30
1,2,4,5-Tetrachlorobenzene	50		61		2-134	20		30
Acetophenone	60		69		39-129	14		30
2,4,6-Trichlorophenol	58		63		30-130	8		30
p-Chloro-m-cresol	58		64		23-97	10		30
2-Chlorophenol	54		62		27-123	14		30
2,4-Dichlorophenol	60		69		30-130	14		30
2,4-Dimethylphenol	48		48		30-130	0		30
2-Nitrophenol	64		74		30-130	14		30
4-Nitrophenol	40		42		10-80	5		30
2,4-Dinitrophenol	61		64		20-130	5		30
4,6-Dinitro-o-cresol	71		73		20-164	3		30
Pentachlorophenol	48		46		9-103	4		30
Phenol	31		36		12-110	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS Associated sample(s): 01-08,10 Batch: WG994523-2 WG994523-3								
2-Methylphenol	50		55		30-130	10		30
3-Methylphenol/4-Methylphenol	52		59		30-130	13		30
2,4,5-Trichlorophenol	59		66		30-130	11		30
Benzoic Acid	14		16		10-164	13		30
Benzyl Alcohol	47		53		26-116	12		30
Carbazole	58		60		55-144	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	45		52		21-120
Phenol-d6	33		37		10-120
Nitrobenzene-d5	70		81		23-120
2-Fluorobiphenyl	61		66		15-120
2,4,6-Tribromophenol	70		74		10-120
4-Terphenyl-d14	66		68		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM Associated sample(s): 01-08,10 Batch: WG994525-2 WG994525-3								
Acenaphthene	73		85		37-111	15		40
2-Chloronaphthalene	72		86		40-140	18		40
Fluoranthene	89		90		40-140	1		40
Hexachlorobutadiene	54		68		40-140	23		40
Naphthalene	66		80		40-140	19		40
Benzo(a)anthracene	88		88		40-140	0		40
Benzo(a)pyrene	97		97		40-140	0		40
Benzo(b)fluoranthene	95		96		40-140	1		40
Benzo(k)fluoranthene	93		94		40-140	1		40
Chrysene	83		84		40-140	1		40
Acenaphthylene	80		94		40-140	16		40
Anthracene	84		90		40-140	7		40
Benzo(ghi)perylene	96		99		40-140	3		40
Fluorene	78		88		40-140	12		40
Phenanthrene	77		82		40-140	6		40
Dibenzo(a,h)anthracene	96		99		40-140	3		40
Indeno(1,2,3-cd)pyrene	102		104		40-140	2		40
Pyrene	89		90		26-127	1		40
2-Methylnaphthalene	69		83		40-140	18		40
Pentachlorophenol	91		93		9-103	2		40
Hexachlorobenzene	77		85		40-140	10		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM Associated sample(s): 01-08,10 Batch: WG994525-2 WG994525-3								
Hexachloroethane	51		64		40-140	23		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		61		21-120
Phenol-d6	44		53		10-120
Nitrobenzene-d5	80		98		23-120
2-Fluorobiphenyl	75		89		15-120
2,4,6-Tribromophenol	94		100		10-120
4-Terphenyl-d14	93		92		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

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 Associated sample(s): 01-08,10 QC Batch ID: WG994523-4 WG994523-5 QC Sample: L1711542-02 Client ID: MW-3R												
1,2,4-Trichlorobenzene	ND	40	21	53		20	50		39-98	5		30
Bis(2-chloroethyl)ether	ND	40	22	55		21	53		40-140	5		30
1,2-Dichlorobenzene	ND	40	20	50		18	45		40-140	11		30
1,3-Dichlorobenzene	ND	40	20	50		18	45		40-140	11		30
1,4-Dichlorobenzene	ND	40	19	48		17	43		36-97	11		30
3,3'-Dichlorobenzidine	ND	40	5.6	14	Q	4.1J	10	Q	40-140	31	Q	30
2,4-Dinitrotoluene	ND	40	24	60		27	68		48-143	12		30
2,6-Dinitrotoluene	ND	40	24	60		26	65		40-140	8		30
4-Chlorophenyl phenyl ether	ND	40	22	55		24	60		40-140	9		30
4-Bromophenyl phenyl ether	ND	40	22	55		25	63		40-140	13		30
Bis(2-chloroisopropyl)ether	ND	40	21	53		20	50		40-140	5		30
Bis(2-chloroethoxy)methane	ND	40	23	58		23	58		40-140	0		30
Hexachlorocyclopentadiene	ND	40	23	58		22	55		40-140	4		30
Isophorone	ND	40	22	55		23	58		40-140	4		30
Nitrobenzene	ND	40	24	60		24	60		40-140	0		30
NDPA/DPA	ND	40	22	55		24	60		40-140	9		30
n-Nitrosodi-n-propylamine	ND	40	22	55		22	55		29-132	0		30
Bis(2-ethylhexyl)phthalate	ND	40	24	60		26	65		40-140	8		30
Butyl benzyl phthalate	ND	40	26	65		28	70		40-140	7		30
Di-n-butylphthalate	ND	40	24	60		25	63		40-140	4		30
Di-n-octylphthalate	ND	40	23	58		25	63		40-140	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

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 Associated sample(s): 01-08,10 QC Batch ID: WG994523-4 WG994523-5 QC Sample: L1711542-02 Client ID: MW-3R												
Diethyl phthalate	ND	40	22	55		24	60		40-140	9		30
Dimethyl phthalate	ND	40	22	55		25	63		40-140	13		30
Biphenyl	ND	40	23	58		24	60		40-140	4		30
4-Chloroaniline	ND	40	7.8	20	Q	8.4	21	Q	40-140	7		30
2-Nitroaniline	ND	40	24	60		28	70		52-143	15		30
3-Nitroaniline	ND	40	14	35		17	43		25-145	19		30
4-Nitroaniline	ND	40	22	55		25	63		51-143	13		30
Dibenzofuran	ND	40	22	55		23	58		40-140	4		30
1,2,4,5-Tetrachlorobenzene	ND	40	22	55		23	58		2-134	4		30
Acetophenone	ND	40	24	60		24	60		39-129	0		30
2,4,6-Trichlorophenol	ND	40	23	58		25	63		30-130	8		30
p-Chloro-m-cresol	ND	40	22	55		25	63		23-97	13		30
2-Chlorophenol	ND	40	22	55		22	55		27-123	0		30
2,4-Dichlorophenol	ND	40	24	60		24	60		30-130	0		30
2,4-Dimethylphenol	ND	40	19	48		20	50		30-130	5		30
2-Nitrophenol	ND	40	26	65		27	68		30-130	4		30
4-Nitrophenol	ND	40	15	38		18	45		10-80	18		30
2,4-Dinitrophenol	ND	40	25	63		28	70		20-130	11		30
4,6-Dinitro-o-cresol	ND	40	27	68		30	75		20-164	11		30
Phenol	ND	40	12	30		12	30		12-110	0		30
2-Methylphenol	ND	40	20	50		20	50		30-130	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

Project Number: ORANGEBURG COMMONS

Report Date: 04/19/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS Associated sample(s): 01-08,10 QC Batch ID: WG994523-4 WG994523-5 QC Sample: L1711542-02 Client ID: MW-3R												
3-Methylphenol/4-Methylphenol	ND	40	20	50		21	53		30-130	5		30
2,4,5-Trichlorophenol	ND	40	23	58		26	65		30-130	12		30
Benzoic Acid	ND	40	ND	0	Q	ND	0	Q	10-164	NC		30
Benzyl Alcohol	ND	40	18	45		19	48		26-116	5		30
Carbazole	ND	40	22	55		24	60		55-144	9		30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2,4,6-Tribromophenol	67		75		10-120
2-Fluorobiphenyl	57		59		15-120
2-Fluorophenol	44		42		21-120
4-Terphenyl-d14	61		63		41-149
Nitrobenzene-d5	69		67		23-120
Phenol-d6	31		30		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS

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<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS-SIM Associated sample(s): 01-08,10 QC Batch ID: WG994525-4 WG994525-5 QC Sample: L1711542-02 Client ID: MW-3R												
Acenaphthene	3.1	40	30	67		31	70		37-111	3		40
2-Chloronaphthalene	ND	40	27	68		27	68		40-140	0		40
Fluoranthene	5.1	40	34	72		37	80		40-140	8		40
Hexachlorobutadiene	ND	40	24	60		22	55		40-140	9		40
Naphthalene	0.11J	40	26	65		25	63		40-140	4		40
Benzo(a)anthracene	1.8	40	31	73		34	81		40-140	9		40
Benzo(a)pyrene	1.5	40	31	74		34	81		40-140	9		40
Benzo(b)fluoranthene	2.2	40	33	77		36	85		40-140	9		40
Benzo(k)fluoranthene	0.78	40	29	71		31	76		40-140	7		40
Chrysene	1.8	40	30	71		33	78		40-140	10		40
Acenaphthylene	0.04J	40	29	73		30	75		40-140	3		40
Anthracene	0.79	40	28	68		30	73		40-140	7		40
Benzo(ghi)perylene	0.93	40	32	78		34	83		40-140	6		40
Fluorene	1.2	40	30	72		32	77		40-140	6		40
Phenanthrene	0.50	40	28	69		30	74		40-140	7		40
Dibenzo(a,h)anthracene	0.27	40	31	77		32	79		40-140	3		40
Indeno(1,2,3-cd)pyrene	0.98	40	33	80		35	85		40-140	6		40
Pyrene	4.0	40	32	70		35	78		26-127	9		40
2-Methylnaphthalene	ND	40	28	70		27	68		40-140	4		40
Pentachlorophenol	ND	40	30	75		32	80		9-103	6		40
Hexachlorobenzene	ND	40	28	70		29	73		40-140	4		40

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
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<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS-SIM Associated sample(s): 01-08,10 QC Batch ID: WG994525-4 WG994525-5 QC Sample: L1711542-02 Client ID: MW-3R												
Hexachloroethane	ND	40	24	60		21	53		40-140	13		40

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
2,4,6-Tribromophenol	84		90		10-120
2-Fluorobiphenyl	81		81		15-120
2-Fluorophenol	54		51		21-120
4-Terphenyl-d14	83		82		41-149
Nitrobenzene-d5	82		79		23-120
Phenol-d6	42		40		10-120

Project Name: ORANGEBURG COMMONS

Lab Number: L1711542

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711542-01A	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-01B	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-01C	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-01D	Amber 1000ml unpreserved	B	7	3.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-01E	Amber 1000ml unpreserved	B	7	3.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02A	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02A1	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02A2	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02B	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02B1	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02B2	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02C	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02C1	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02C2	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-02D	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02D1	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02D2	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02E	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02E1	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-02E2	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-03A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-03B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-03C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711542-03D	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-03E	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-04A	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-04B	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-04C	Vial HCl preserved	C	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1711542-04D	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-04E	Amber 1000ml unpreserved	C	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-05A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-05B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-05C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-05D	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-05E	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-06A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-06B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-06C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-06D	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-06E	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-07A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-07B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-07C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-07D	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-07E	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-08A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-08B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-08C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1711542-08D	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-08E	Amber 1000ml unpreserved	A	7	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-09A	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-09B	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-10A	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-10B	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: ORANGEBURG COMMONS**Lab Number:** L1711542**Project Number:** ORANGEBURG COMMONS**Report Date:** 04/19/17**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711542-10C	Vial HCl preserved	B	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1711542-10D	Amber 1000ml unpreserved	B	7	3.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1711542-10E	Amber 1000ml unpreserved	B	7	3.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

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).
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.
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

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.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGEBURG COMMONS
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Data Qualifiers

- 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.

Project Name: ORANGEBURG COMMONS
Project Number: ORANGEBURG COMMONS

Lab Number: L1711542
Report Date: 04/19/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

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: 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, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **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.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

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

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

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of

Date Rec'd in Lab

4/12/17

ALPHA Job #

1711542

Project Information

Project Name: ORANGEBURG COMMONS
Project Location: 1 STEPHEN'S WAY, ORANGEBURG, NY
Project # ORANGEBURG COMMONS

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client Info
PO #

Client Information

Client: Tenen Environmental
Address: 121 W 27th Street
MANHATTAN, NY, 10001
Phone: 646-606-2332
Fax:
Email: UACAROU@TENEN-ENV.COM

(Use Project name as Project #)
Project Manager: NATTCAROU
ALPHAQuote #:

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:

Turn-Around Time

Standard Due Date:
Rush (only if pre approved) # of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

NYTCL 9260	NYTCL 9270																				
------------	------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

T
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B
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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
11542-01	FIELD BLANK	4/12/17	1515	W	CE	X	X								
-02	NW-2R	4/12/17	1425	W	CE	X	X								
	NW-3R NS	↓	1430	W	CE	X	X								
	NW-3R NS(D)		u	1435	W	CE	X	X							
-03	NW7R2		0950	W	CE	X	X								
-04	NW-2R2		1605	W	CE	X	X								
-05	NW-6R		0925	W	MEA	X	X								
-06	NW-13		0915	W	CE	V	X								
-07	NW-12		1110	W	MEA	X	X								
-08	NW-12 DUP		1130	W	MEA	X	X								

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
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

Preservative

B A

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.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	4/12/17 16:25	<u>[Signature]</u>	4/12/17 16:30
<u>[Signature]</u>	4/12/17 19:05	<u>[Signature]</u>	4/12/17 19:20
<u>[Signature]</u>	4/12/17 23:40	<u>[Signature]</u>	4/12/17 23:40



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

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of 2

Date Rec'd in Lab

4/12/17

ALPHA Job #
2171542

Project Information

Project Name: OR Orangeburg Commons

Project Location:

Project # Orangeburg Commons

(Use Project name as Project #)

Project Manager: Matt Carroll

ALPHAQuote #:

Turn-Around Time

Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B
 EQUS (1 File) EQUS (4 File)
 Other

Billing Information

Same as Client Info
PO #

Client Information

Client: TREN Environmental

Address: 121W 27th Street

Phone: 646-606-2332

Fax:

Email:

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:

ANALYSIS

NY TL 07100
NY TL 07110

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

T
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Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments			
		Date	Time																
11542-09	TRMP BLANK	4/12/17	---	W	---	X	X												
-10	UN-OR	4/12/17	1020	W	MEP	X	X												

- Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
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
Preservative B A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>John J. Allen</u>	<u>4/12/17 10:25</u>	<u>Paul Magella</u>	<u>4/12/17 16:30</u>
<u>John J. Allen</u>	<u>4/12/17 19:05</u>	<u>Paul Magella</u>	<u>4/12/17 19:20</u>
<u>Paul Magella</u>	<u>4/12/17 23:46</u>	<u>Ben</u>	<u>4/12/17 23:16</u>

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.)



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No. C344073			
Site Name Orangeburg Commons			
Site Address: 170 Route 303 Zip Code: 10962			
City/Town: Orangeburg			
County: Rockland			
Site Acreage: 15.8			
Reporting Period: May 16, 2016 to May 16, 2017			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

		Box 2A
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C344073	Box 3	
Description of Institutional Controls		
<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
74.15-1-21	FB Orangetown LLC c/o RD Management LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
<p>(1) The controlled property may be used for commercial use as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and industrial use as described in 6 NYCRR Part 375-1.8(g)(2)(iv);</p> <p>(2) All engineering controls must be operated and maintained as specified in the Site Management Plan (SMP);</p> <p>(3) All engineering controls must be inspected at a frequency and in a manner defined in the SMP;</p> <p>(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Rockland County Department of Health to render it safe for use as drinking water or for industrial purposed, and the user must first notify and obtain written approval to do so from the Department;</p> <p>(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;</p> <p>(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;</p> <p>(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;</p> <p>(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;</p> <p>(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;</p> <p>(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.</p>		

	Box 4
Description of Engineering Controls	

Parcel
74.15-1-21

Engineering Control

Vapor Mitigation
Cover System

Cover System

Sub-Slab Depressurization Systems

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C344073

Box 6

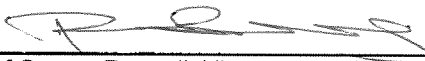
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Richard J. Birdoff at c/o RD Management LLC
810 Seventh Avenue, 10th Floor; New York, NY 10019
print name print business address

am certifying as Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Matthew M. Carroll at 862 Union Street, 1D; Brooklyn, NY 11215,
print name print business address

am certifying as a Qualified Environmental Professional for the Remedial Party
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



Stamp
(Required for PE)

7/20/17

Date