



TECHNICAL
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**PHASE I SOIL REMEDIATION:
WELL INSTALLATION AND BASELINE SAMPLING REPORT**

**Walkill Wellfield Site
City of Middletown
Orange County, New York**

January 11, 2021

GBTS Project: LM97145

22 IBM Road – Suite 101
Poughkeepsie, NY 12601
(845) 452-1658 www.gallagherbassett.com

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GBTS Project: LM97145

Prepared By:

**Gallagher Bassett Technical Services
22 IBM Road – Suite 101
Poughkeepsie, New York 12601**

Prepared For:

**Laurwal Holding Corporation
P.O. Box 117
Hartsdale, New York 10530**

Environmental investigation services were performed by Gallagher Bassett Technical Services (GBTS). The undersigned have reviewed this Well Installation and Baseline Sampling Report and certify to Laurwal Holding Corporation that the information provided in this document is accurate as of the date of issuance by this office.



Richard Hooker
Gallagher Bassett Technical Services
Manager – Environmental Consulting



Scott Spitzer
Gallagher Bassett Technical Services
Technical Director – Environmental Consulting

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1.0 INTRODUCTION

1.1 Purpose

This *Well Installation and Baseline Sampling Report* (Report) describes environmental fieldwork at the Wallkill Wellfield Site, located at 20 Industrial Place, City of Middletown, Orange County, New York. Site construction and investigation activities were performed by Gallagher Bassett Technical Services (GBTS) and authorized subcontractors, following the USEPA-approved *Phase I Remedial Design Document* (RDD), in order to address previously identified contamination of sub-slab soils by chlorinated solvents. This report documents installation of a network of wells within the on-Site building, and collection of baseline soil and groundwater samples, in support of planned in situ treatment of impacted soil and groundwater.

This Report describes all fieldwork methodologies for the work conducted by GBTS, and includes discussions of the resulting analytical data from media sampling.

1.2 Site Location and Description

The Site is an irregular, approximately 4.3-acre parcel, occupied by an approximately 40,000-square foot commercial building to the north and undeveloped wooded land to the south. The building is currently occupied by a furniture warehouse. Fieldwork activities were conducted at the northern-central portion of the warehouse, near a previous soil boring (SB-8) that contained elevated concentrations of chlorinated volatile organic compounds (CVOCs). Site Location and Fieldwork Maps (Figures 1 and 2) are provided in Appendix A.

The Site has overall downward slopes to the south, with surface elevations from approximately 640 to 600 feet above mean sea level. Groundwater flows in a southerly direction from Highland Avenue towards Industrial Place Extension. Fill soils are likely to have been imported to level the northern portion of the property prior to construction of the on-site building. The lowest property elevation is near the southern property edge, adjacent to the northwestern side of Industrial Place Extension.

1.3 Previously Documented Environmental Conditions

Chlorinated solvents, including tetrachloroethylene (PCE) and trichloroethylene (TCE), were previously used at the Site during production of electrical components. Prior investigations indicated the presence of chlorinated solvents in soil and groundwater as a result of historical on-Site discharges (off-Site groundwater impacts were identified in the 1980s and investigations conducted in the early 1990s identified PCE, and trace concentrations of TCE, in on-Site soils and groundwater). The RDD summarizes known environmental conditions and specifies an in situ treatment methodology to address residual CVOC-impacted soil beneath the building slab.

Soils containing PCE at concentrations warranting active remediation are present beneath a portion of the building concrete slab (immediate vicinity of SB-8). An in-situ chemical oxidation

(ISCO) treatment, introducing oxidants into the source zone in order to reduce contaminants of concern, is proposed to address these contamination conditions. ISCO treatment of organic contaminants is a well-established technology widely used to both directly destroy target compounds in soil and groundwater, and to create conditions (e.g., mass reduction) that favor natural attenuation. ISCO treatment is appropriate for treatment of contaminants at the Site.

Excavation and off-site removal of PCE-impacted soil is not considered to be a practical or cost-effective response action at the Site, based on the presence of the building. ISCO treatment by direct subsurface injection/recirculation of an oxidant/water solution may be implemented at the Site safely without significantly disrupting ongoing commercial activities, and has a high likelihood of diminishing residual contamination.

The proposed treatment of soils requires the installation of injection and extraction wells within the building, followed by recirculation of an in-situ chemical solution to treat the existing PCE contamination located beneath the slab. The final design parameters are determined by a bench test of soil and groundwater collected from beneath the building slab, and evaluation of the remedial action requires comparison of post-treatment and pre-treatment (baseline) soil and groundwater solvent concentrations.

2.0 FIELDWORK ACTIVITIES

2.1 Summary of Services

Fieldwork was conducted in June and July 2020. GBTS performed or supervised all activities, including advancement of eight (8) soil borings and installation of six (6) wells required for the planned in situ treatment, and collection of soil and groundwater for bench testing (in support of finalizing the remedial design) and to establish pre-remediation baseline conditions. A map indicating fieldwork locations and Site features is provided in Appendix A.

2.2 Fieldwork Activities

2.2.1 Site Preparation Services

The drilling subcontractor requested a complete utility markout (required by state regulations) and on-site personnel reviewed the markout and underground utility locations prior to the start of fieldwork.

GBTS notified building tenants of upcoming work, described planned activities and discussed any likely constraints on normal commercial operations, and provided updates as work progressed.

2.2.2 Fieldwork Dates

Extension of borings for collection of baseline soil sampling and installation of monitoring wells was conducted from June 29 to July 2, the newly installed wells were developed on July 15, and groundwater was sampled on July 27, 2020.

2.2.3 On-site Personnel

One or more qualified personnel from GBTS, as well as representatives from the USEPA's selected oversight contractor (HDR), were present at the Site during all fieldwork activities. A representative from the remediation subcontractor (MEC^x) was present on June 29 and 30 to assist with the final placement of wells and collect bulk soil from borings for bench testing. A representative from USEPA, as well as senior personnel from HDR, performed a brief site inspection on July 1. The drilling and well installation subcontractor (Core Down Drilling [CDD]) was present from June 29 through July 2.

All personnel arriving at the Site received a safety orientation, COVID-19 temperature screening, and complied with required sign-in procedures as specified in the Site Health and Safety Plan.

2.2.4 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) was implemented during all ground-intrusive activities (installation of borings and wells), in accordance with RDD Section 3.3, using a two-tiered system of stationary photo-ionization detectors (PIDs) and multiple dust meters.

PIDs were placed at the perimeter of treatment area and at secondary locations approximately 30-50 feet from the perimeter, as allowed by the work sequence, logistics, and physical configuration within the building. There were no exceedances of the screening criteria (VOCs: 2.5 parts per million [ppm] above normal factory [pre-screened] background levels, dust: 150 $\mu\text{g}/\text{m}^3$), and no significant VOC or dust readings were recorded (i.e., VOCs did not exceed an absolute value of 2.5 ppm and dust levels were well below criteria except for several short-term transient events). Dust monitoring data are provided in Appendix E.

2.2.5 Fieldwork Methodology

General Protocols

Encountered material was screened (as appropriate) with a properly calibrated MiniRAE 3000 (Model PGM 7320) PID for volatile organic vapors. GBTS documented field observations in log books, including specific characteristics, the presence of foreign materials, and any indications of contamination). Relevant information from GBTS logs is summarized in Appendix B.

GBTS collected samples in conformance with the RDD Standard Operating Procedures (SOPs). All field personnel wore dedicated, disposable gloves during relevant fieldwork activities, and any non-dedicated sampling instruments were decontaminated prior to media collection.

All baseline samples were collected into appropriately-sized containers provided by the laboratory (with preservatives as required for the specific analysis), and were maintained at proper temperatures (using ice-packs and coolers as needed) while in GBTS's custody.

Samples were transported via courier (June 30 and July 1 for soil and July 28 for groundwater), under chain of custody, to York Analytical Laboratories, Inc., a New York State Department of Health-certified laboratory (ELAP Certification Number 10854) for chemical analyses.

Soil collected for bench testing was directly handled, collected and transported by the MEC^x representative. Groundwater collected for bench testing was shipped to a MEC^x facility via FedEx overnight service on July 28, 2020.

Extension of Soil Borings

CDD saw-cut the concrete floor on June 29 and advanced soil borings on June 29 (EMW-01 and EMW-02) and June 30 (IMW-01 to IMW-06) using a Geoprobe (model 54DT) direct-push corer equipped with disposable acetate sleeves (used to prevent the cross contamination of soil samples). Soil was recovered at each boring location at intervals of 4 feet to a maximum depth of 16 feet below surface grade (bsg). Refusal (likely on bedrock) was met from 6.5 to 16 feet bsg.

Extension of borings was slowed by the dense nature of the subsurface and a coring barrel snapped-off at IMW-01 at 4 feet, resulting in placement of a new boring several inches to the side of the first location. Two attempts were made to complete IMW-03, with refusal at 6.5 feet, and IMW-04 met refusal at 8.5 feet.

Subsurface material generally consisted of fine sand (likely structural fill) in the upper 4 feet, clayey to sandy silt with some gravel in the 4 to 8 feet interval, a dense layer of silty medium to coarse sand with gravel and sandy gravel in the 8 to 12 feet interval, and underlying gravel in a matrix of fine sand, silt and/or clay at deeper intervals. Wet soil was generally seen in the 8 to 12 feet interval with obvious saturated material generally at approximately 10 feet bsg.

PID readings were recorded at borings as follows (no other field evidence of contamination was observed during the fieldwork):

Location	Soil Depth	PID Reading
EMW-01	Top of bore hole	111 ppm
	11-12 ft	14 ppm
EMW-02	12-16 ft	3 ppm
IMW-02	12-13 ft	3 ppm
IMW-05	11-12 ft	18 ppm
	13-14 ft	9 ppm
IMW-06	11-12	9 ppm

Soil samples were collected directly from the acetate sleeves utilizing clean, disposable equipment. Soil collection for VOC analysis was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits.

Ten soil samples were collected from the following depths (feet below building slab):

Location	Boring Depth	Collection Interval
EMW-01	15.5 ft (refusal)	11-12, 13-14
EMW-02	16 ft	12-16
IMW-01	15 ft (refusal)	14-15
IMW-02	13 ft (refusal)	12-13
IMW-03	6.5 ft (refusal)	<i>No sample collected</i>
IMW-04	8 ft (refusal)	<i>No sample collected</i>
IMW-05	14 ft (refusal)	11-12, 13-14
IMW-06	15 ft	11-12 (plus duplicate), 13-15

Monitoring Well Installation, Development and Sampling

All soil borings, with exception of IMW-03 and IMW-04 (shallow refusal and no saturated soil found) were completed as permanent monitoring wells by over-drilling the boreholes using a Geoprobe (model 7822DT) equipped with a hollow stem auger. The auger was advanced to refusal depths of approximately 14.5 to 16 feet (drilling was slowed by dense subsurface conditions). Each well was constructed of two-inch PVC casing and 7 to 8 feet of 0.01-inch slotted PVC well screening (extending to the base of the well). The annular space between the well screen and the borehole was backfilled with clean #1 silica sand to approximately 2 feet above the screen, 2 to 3 feet of bentonite clay was placed above the sand and the remaining annular space above the bentonite seal was then grouted with concrete. Well casings were equipped with gripper caps and were finished with steel "drive-over" covers.

Monitoring well development was conducted July 15 in order to clear fine-grained material that might have settled around the well screen and to enhance the natural hydraulic connection between the well screen and the surrounding soils. Prior to development, each monitoring well casing was opened and the well column was immediately screened with a PID to document the presence of any volatile organic vapors. Water removed from each monitoring well was visually inspected for indications of contamination. Development was conducted using submersible and peristaltic pumps with dedicated plastic tubing, and was considered complete when purged water no longer appeared to be turbid.

Monitoring wells were sampled on July 27 using USEPA “Low Stress” (low flow) methodology, after field parameters stabilized during purging. PID readings recorded at the top of the casing after removing the protective cap ranged from approximately 4 to 154 ppm, with peak readings at EMW-01 (the next highest reading was 39 ppm at IMW-01; slight odors were also noted at both these locations); no evidence of non-aqueous phase liquid was observed at any monitoring wells. Static groundwater depths (from top of the casings) ranged from 7.59 feet (IMW-01) to 8.48 feet (IMW-05).

Samples from all wells were collected in 40-ml glass vials preserved with hydrochloric acid, with a triple volume collected at EMW-01 for laboratory MS/MSD analysis. Additional water volume was collected from EMW-01 (20, 1-liter amber glass jars) for bench testing by MEC^x.

2.3 Laboratory Analysis

2.3.1 Standards, Criteria and/or Guidance

The RDD indicates a risk based, site-specific cleanup level (SSCL) of 12 ppm for PCE.

Laboratory results for all compounds detected in water are compared to NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values (AWQS), provided in Technical and Operational Guidance Series 1.1.1.

2.3.2 Sample Submission

All soil and groundwater samples were analyzed for CVOCs using USEPA Method 8260. Soil samples were collected as per the RDD, with at least one sample collected from the bottom of the boring, with additional material collected at the depth interval with peak PID reading as measured in the field (only one sample was collected when the peak PID reading occurred at the bottom interval). Submission of soil samples was biased based on field observations, including the presence or absence of elevated PID readings, unusual odors, discoloration, or, any other unusual patterns.

Sample IMW-01 14-15 was analyzed for total petroleum hydrocarbons (TPH) at the request of MEC^x.

2.3.3 Laboratory Results

A summary of the results of the laboratory analyses is presented below. Results are referenced as parts per million (ppm, equivalent to milligrams per kilogram) for soil and parts per billion (ppb, equivalent to micrograms per liter) for groundwater. Data summary tables and laboratory reports are provided as Appendices C and D, respectively.

Soil

PCE and related degradation products were detected in all soil samples (no other CVOCs were reported).

All ten samples contained PCE (2.2 to 11 ppm), TCE (0.058 to 0.42 ppm) and cis-dichloroethylene (DCE; 0.023 to 0.55 ppm). Trans-DCE was reported in two samples (0.0022 and 0.0037 ppm), and vinyl chloride (VC) was reported in three samples (0.0088 to 0.015 ppm). Peak PCE was reported in sample EMW-01 13-14 at 11 ppm, just below the SSCL of 12 ppm.

TPH was reported as non-detect in sample IMW-01 14-15.

GROUNDWATER

All wells contained PCE (332 to 1,240 ppb), TCE (20.3 to 352 ppb), cis-DCE (117 to 1,930 ppb), trans-DCE (1.03 to 40.8 ppb) and VC (0.42 to 499 ppb). Three wells additionally contained low levels of 1,1,1-trichloroethane (0.67 to 0.84 ppb). Peak levels of PCE occurred at EMW-01, which corresponds to the highest concentrations reported in soil. Total CVOCs ranged from 587 to 3,514 ppb (reported at EMW-02).

2.4 Design Parameter Evaluation Report

MEC^x performed a design parameter evaluation (DPE) using soil and groundwater samples collected during the fieldwork events (a DPE report is provided in Appendix F). The purpose of the DPE was to provide qualitative and quantitative data supporting design of the planned in-situ chemical oxidation (ISCO) treatment to address contamination beneath the on-Site building. Based on bench testing results, and accounting for the use of four rather than six injection wells, MEC^x, provided recommendations for field reagent formulations for the ISCO treatment, and is prepared to move forward with the remedial fieldwork.

3.0 CONCLUSIONS AND RECOMMENDATIONS

GBTs has completed well installation and baseline soil and groundwater sampling at the Wallkill Wellfield Site, in accordance with the USEPA-approved Phase I Remedial Design Document.

Required soil and groundwater samples have been collected and analyzed to establish baseline conditions, and media has been provided to the remediation subcontractor, MEC^x, in support of bench testing and refinement of the proposed remedial design. PCE and related CVOCs have been documented in soil and groundwater beneath the building slab. Although PCE levels are relatively low compared to the SSCL, groundwater in the vicinity of SB-8 has been impacted, indicating that contamination is present at levels warranting further remedial action.

Site remediation should be conducted in accordance with final recommendations and fieldwork protocols from MEC^x. Based on the initial soil and groundwater sampling results, it is expected that the proposed ISCO applicable will effectively reduce contamination conditions.

APPENDIX A: Figures



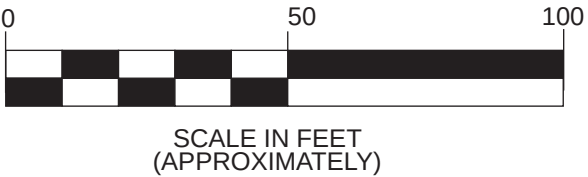
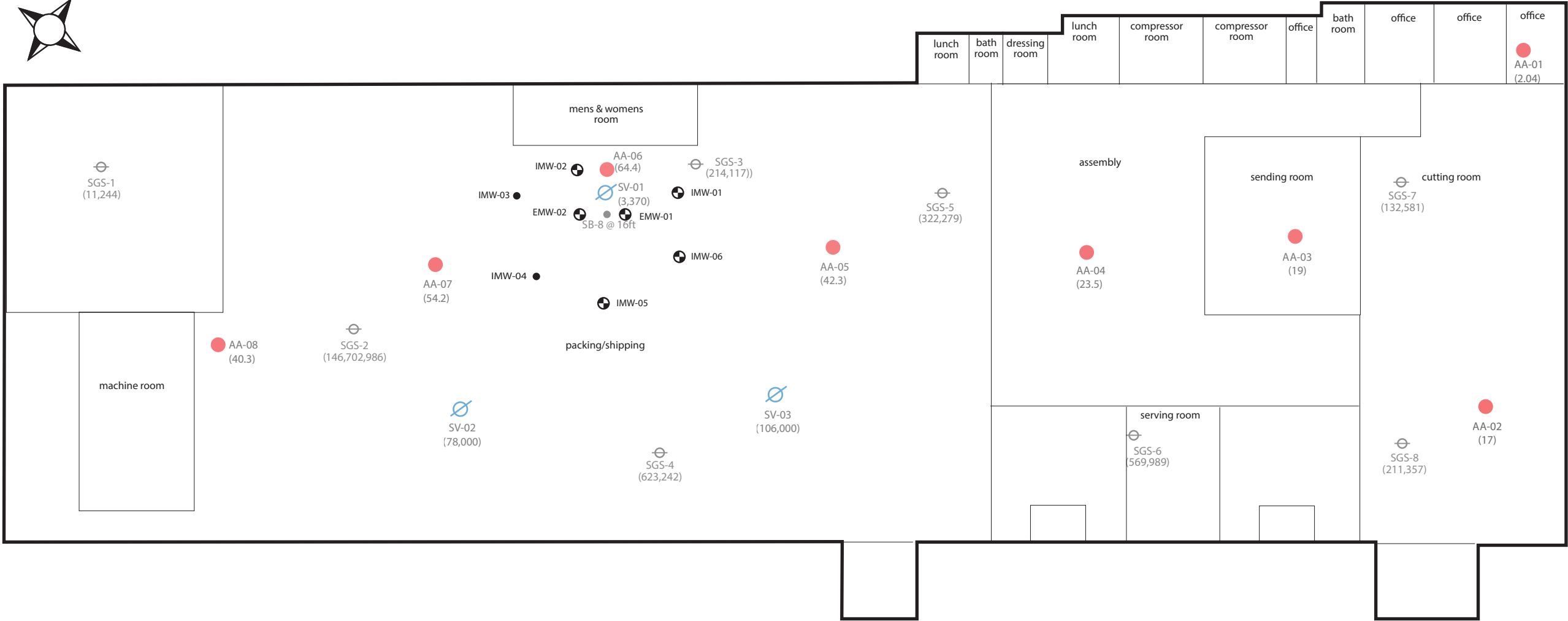
Figure 1
Site Location
Wallkill Wellfield Site
20 Industrial Place, City of Middletown
Orange County, New York

Legend:
— site border

File: LM97145.51

January 2021

Appendix A



Legend:

- subject property border
- boring location (no sample collected) 2020
- well location 2020
- previous soil boring location
- 2006 soil vapor sample location (SGS-#)
- 2019 soil vapor sample location (SV-#)
- 2019 ambient air sample location (AA-#)

All vapor and air results in $\mu\text{g}/\text{m}^3$

Figure 2: Fieldwork Map

Walkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145.50

Scale as shown

January 2021

Appendix A

APPENDIX B: Fieldwork Logs

APPENDIX B – FIELDWORK PHOTOGRAPHS



1. Cutting floor slab



2. Preparing to breaking concrete with rotary hammer



3. Advancing soil borings



4. Typical cut boring sleeve

APPENDIX B – FIELDWORK PHOTOGRAPHS



5. Over drilling boreholes with auger



6. Over drilling boreholes with auger



7. Newly installed well



8. Well finished flush with concrete slab

Soil Boring Log

EMW-01 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-29 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Fair to cloudy, 70s and 80s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (50%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 8' (100%)	Brown, Clayey and Sandy SILT, some Gravel	Sly	0.0	ND	ND	ND	
8 – 12' (100%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	14	ND	ND	ND	11-12
	Material densely packed, moist then wet towards bottom						
12 – 16' (100%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 15.5' *****	Wet	0.0	ND	ND	ND	13-14
Notes Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval Field Evidence of Contamination PID reading (14 ppm) at ~11-12' and 111 ppm at top of borehole; no other field evidence of contamination Saturated Soils Start at ~10' Field Notes Monitoring well EMW-01 set on 2020-06-30 at approximately 15.5' below slab, screen from 7.5-15.5'							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log

EMW-02 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-29 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Fair to cloudy, 70s and 80s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (50%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 8' (100%)	Brown, Clayey and Sandy SILT, some Gravel	SI	0.0	ND	ND	ND	
8 – 12' (75%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	0.0	ND	ND	ND	
	Material densely packed, moist then wet towards bottom						
12 – 16' (75%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 16' *****	Wet	3	ND	ND	ND	12-16
Notes Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval Field Evidence of Contamination PID reading (3 ppm) at 12-16'; no other field evidence of contamination Saturated Soils Start at ~10' Field Notes Monitoring well EMW-02 set on 2020-06-30 at approximately 16' below slab, screen from 9-16'							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log

IMW-01 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-30 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (50%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 8' (100%)	Brown, Clayey and Sandy SILT, some Gravel	SI	0.0	ND	ND	ND	
8 – 12' (75%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	0.0	ND	ND	ND	
	Material densely packed, moist then wet towards bottom						
12 – 15' (90%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 15' *****	Wet	0.0	ND	ND	ND	14-15
Notes Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval Field Evidence of Contamination No field evidence of contamination Saturated Soils Start at ~10' Field Notes Barrel snapped at 4' – boring offset and re-drilled. Monitoring well IMW-01 set on 2020-07-01 at approximately 14.5' below slab, screen from 6.5-14.5', auger cutting teeth replaced during installation							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log

IMW-02 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling							<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-30 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F							
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED	
	SOIL / MATERIAL DESCRIPTION							
0 – 4' (80%)	Brown, F SAND	SI	0.0	ND	ND	ND		
4 – 8' (100%)	Brown, Clayey and Sandy SILT, some Gravel	SI	0.0	ND	ND	ND		
8 – 12' (80%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	0.0	ND	ND	ND		
	Material densely packed, moist then wet towards bottom							
12 – 13' (90%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 13' *****	Wet	3	ND	ND	ND	12-13	
Notes Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval Field Evidence of Contamination PID reading (3 ppm) at 12-13'; no other field evidence of contamination Saturated Soils Start at ~10' Field Notes Monitoring well IMW-02 set on 2020-07-02 at approximately 16' below slab, screen from 8-16'								

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



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IMW-03 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						GBTS PROJECT LM97145
	DATE: 2020-06-30 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (50%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 6.5' <i>no recovery</i>	***** End of Boring (Refusal) at 6.5' *****						
Notes Fill Materials Likely construction fill from below slab to ~4 Field Evidence of Contamination No field evidence of contamination Saturated Soils Not encountered Field Notes Shallow refusal at 6.5', boring offset but with same result; no monitoring well installed							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log

IMW-04 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-30 DRILLER (Rig) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (50%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 8' <i>no recovery</i>	***** End of Boring (Refusal) at 8.5' *****						
Notes Fill Materials Likely construction fill from below slab to ~4 Field Evidence of Contamination No field evidence of contamination Saturated Soils Not encountered Field Notes Shallow refusal at 8.5', boring offset but with same result; no monitoring well installed							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



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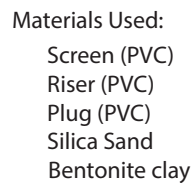
IMW-05 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling							GBTS PROJECT LM97145
	DATE: 2020-06-30 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F							
	BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION							
0 – 4' (90%)	Brown, F SAND	SI	0.0	ND	ND	ND		
4 – 8' (90%)	Brown, Clayey and Sandy SILT, some Gravel	SI	0.0	ND	ND	ND		
8 – 12' (100%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	18	ND	ND	ND	11-12	
	Material densely packed, moist then wet towards bottom							
12 – 14' (90%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 14' *****	Wet	9	ND	ND	ND	13-14	
Notes								
Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval								
Field Evidence of Contamination Peak PID readings (18 ppm) at 11-12', lower (9 ppm) at 13-14'; no other field evidence of contamination								
Saturated Soils Start at ~10'								
Field Notes Monitoring well IMW-05 set on 2020-07-01 at approximately 16' below slab, screen from 8-16'								

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log

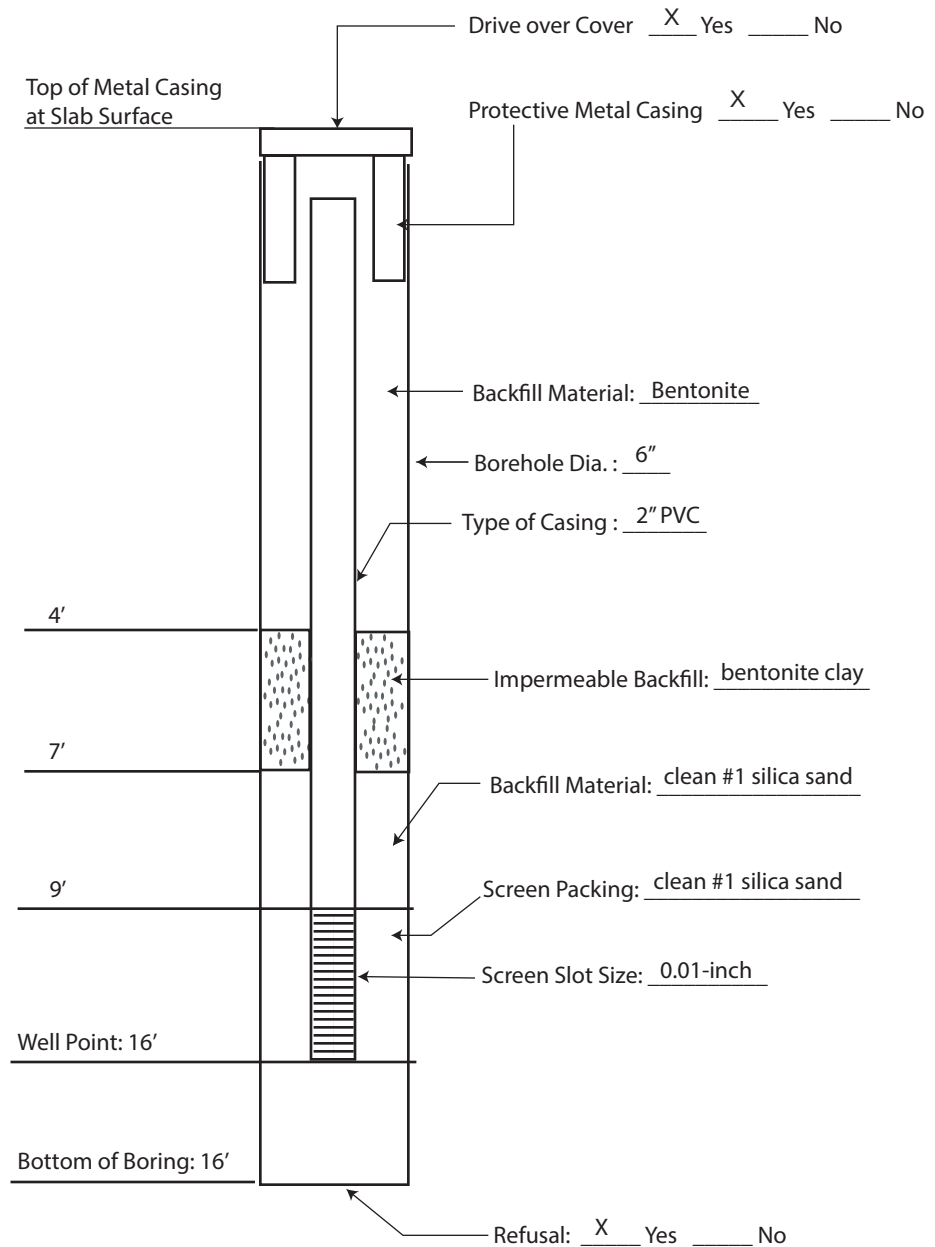
IMW-06 (SHEET 1 OF 1)	Walkill Wellfield Site - Baseline Soil Sampling						<i>GBTS PROJECT LM97145</i>
	DATE: 2020-06-30 DRILLER (RIG) Core Down (54DT Geoprobe, 4' macro-core) GBTS STAFF: S. Spitzer WEATHER: Cloudy, 60s and 70s F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: concrete slab, approximately 6"	MOISTURE	PID (ppm)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 4' (90%)	Brown, F SAND	SI	0.0	ND	ND	ND	
4 – 8' (90%)	Brown, Clayey and Sandy SILT, some Gravel	SI	0.0	ND	ND	ND	
8 – 12' (100%)	Brown, Silty M-C SAND w/ Gravel, and Sandy GRAVEL	Wet	9	ND	ND	ND	11-12
	Material densely packed, moist then wet towards bottom						
12 – 15' (90%)	Brown and gray, GRAVEL with F Sand, Silt and Clay ***** Saturated at ~10' ***** ***** End of Boring (Refusal) at 15' *****	Wet	0.0	ND	ND	ND	13-15
Notes Fill Materials Likely construction fill from below slab to ~4', with potential fill from pre-construction grading (no debris noted) in 4-8' interval Field Evidence of Contamination PID reading (9 ppm) at 11-12'; no other field evidence of contamination Saturated Soils Start at ~10' Field Notes Monitoring well IMW-06 set on 2020-07-02 at approximately 14.8' below slab, screen from 7.8-14.8'							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
SI (slight) **F** (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)



Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

Appendix B



Materials Used:
Screen (PVC)
Riser (PVC)
Plug (PVC)
Silica Sand
Bentonite clay

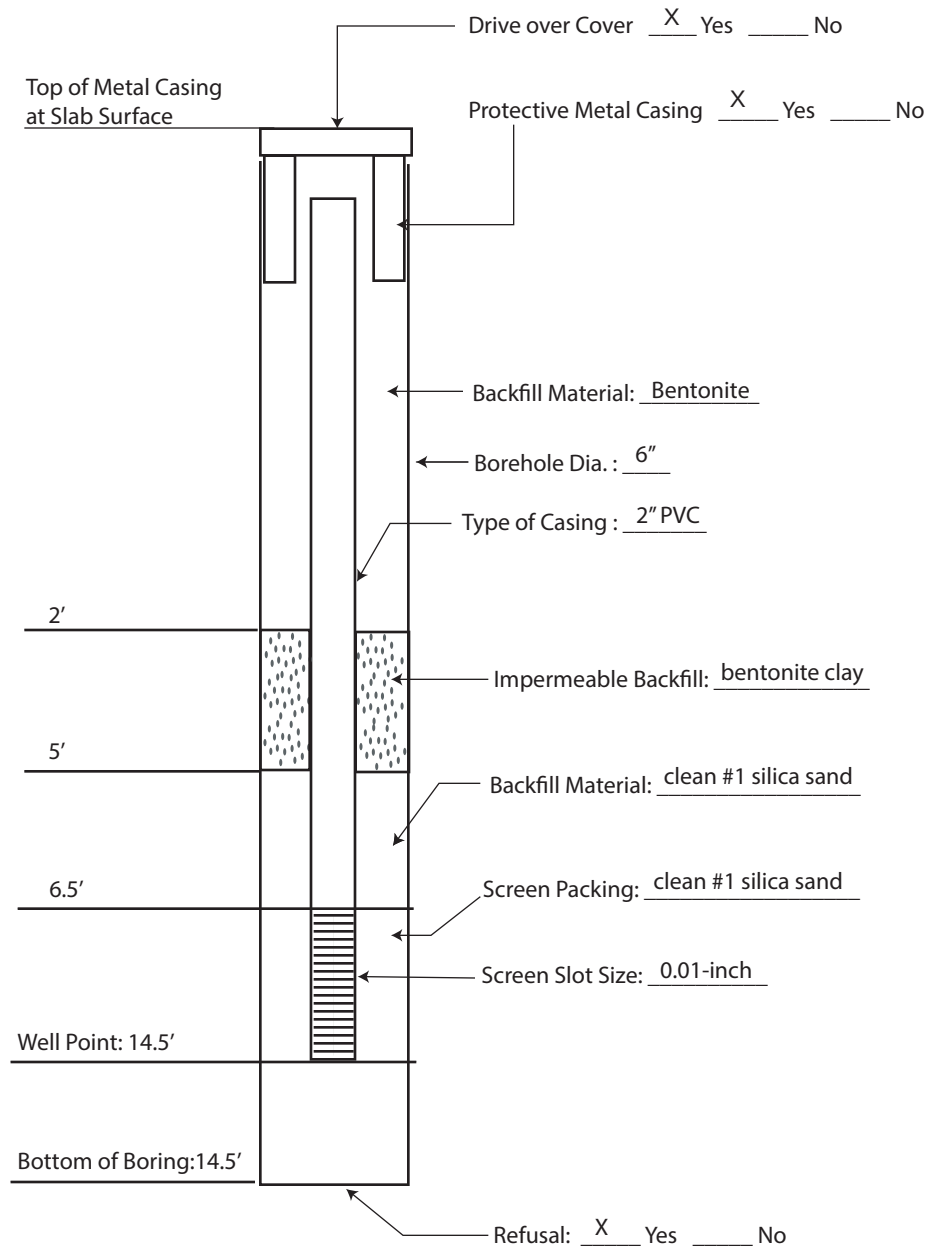
Monitor Well Construction Log - EMW-02

Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145

January 2021

Appendix B



Materials Used:
Screen (PVC)
Riser (PVC)
Plug (PVC)
Silica Sand
Bentonite clay

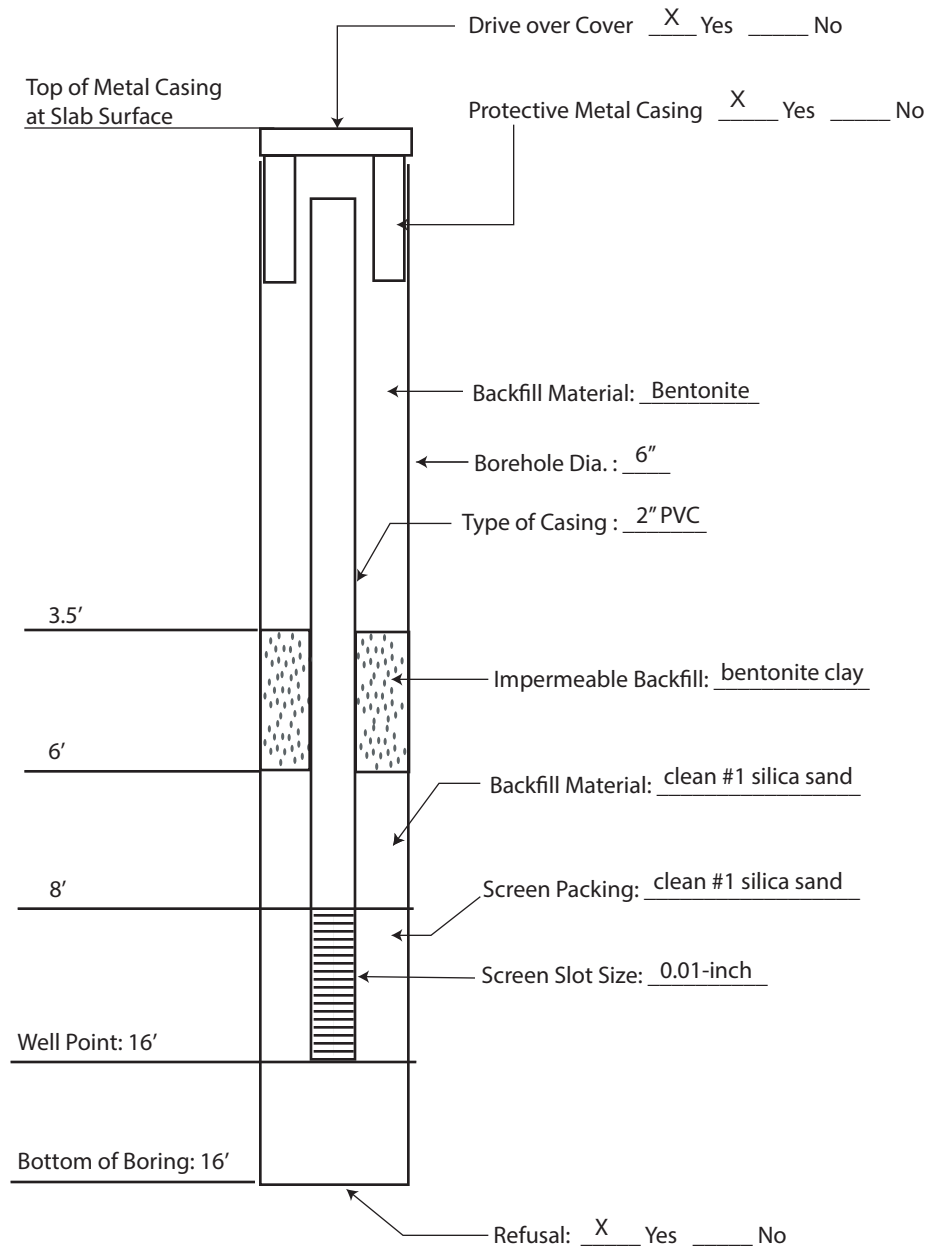
Monitor Well Construction Log - IMW-01

Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145

January 2021

Appendix B



Materials Used:
Screen (PVC)
Riser (PVC)
Plug (PVC)
Silica Sand
Bentonite clay

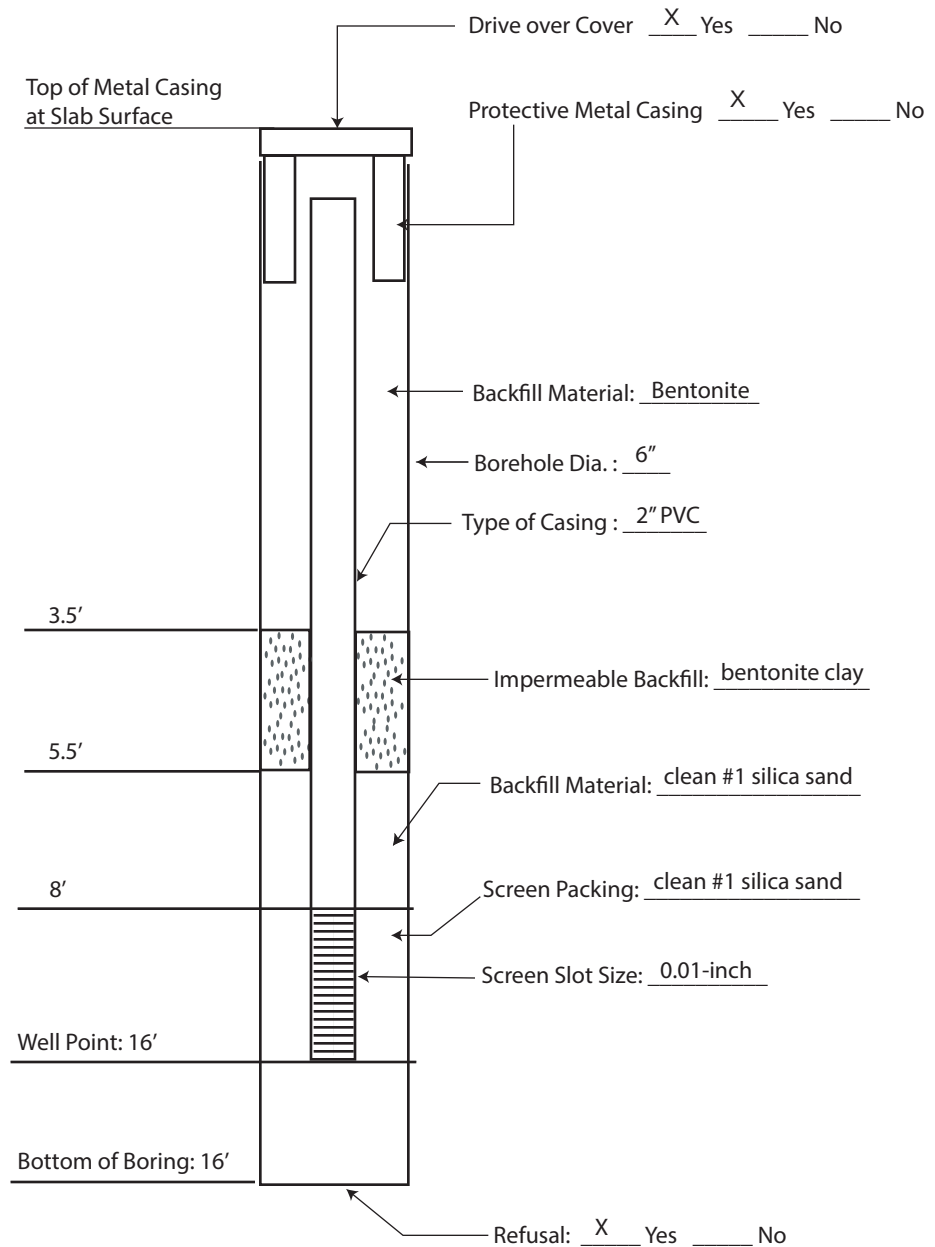
Monitor Well Construction Log - IMW-02

Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145

January 2021

Appendix B



Materials Used:
Screen (PVC)
Riser (PVC)
Plug (PVC)
Silica Sand
Bentonite clay

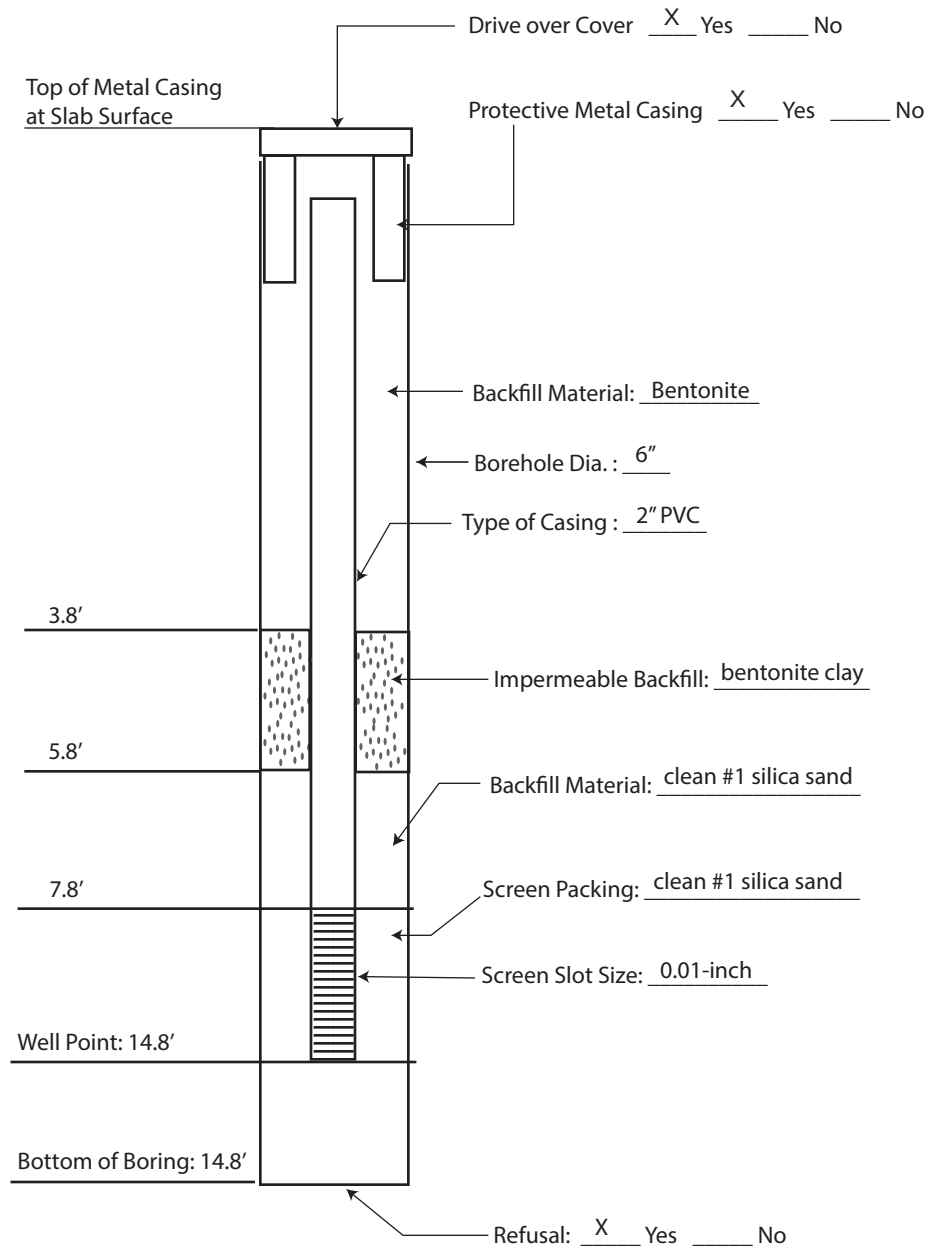
Monitor Well Construction Log - IMW-05

Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145

January 2021

Appendix B



Materials Used:
Screen (PVC)
Riser (PVC)
Plug (PVC)
Silica Sand
Bentonite clay

Monitor Well Construction Log - IMW-06

Wallkill Wellfield Site
20 Industrial Place
City of Middletown
Orange County, New York

File: LM97145

January 2021

Appendix B

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Walkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: _____

Well ID: EMW-1
 PID Reading: 154.4 ppm
 Depth of well: 15.71
 Depth to water: 7.84'
 Pump type: _____

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
13:24	21.37	5.30	93	0.444	0.0	1.63	7.89	100	
13:27	20.81	5.17	104	0.458	0.0	0.57	7.90	90	
13:30	20.27	5.20	104	0.524	0.0	0.46	7.90	90	
13:33	19.86	5.24	103	0.570	0.0	0.43	7.90	90	
13:36	19.63	5.24	101	0.644	0.0	0.38	7.90	100	
13:39	19.47	5.30	100	0.684	0.0	0.37	7.90	100	
13:42	19.38	5.32	98	0.714	0.0	0.38			
13:45	19.36	5.33	97	0.737	0.0	0.37	7.90	100	SAMPLE

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 13:12 - 13:45
 Total purge time: 33 min
 Total volume: ~1 gal
 Purge rate: 90 mL/min - 120 mL/min

CHARACTERISTICS:
 Odor: none | slight | moderate | strong
 Sheen: none | slight | moderate | strong
 L/DNAPL: Yes | No | L/DNAPL thickness (in.): _____

NOTES:

13:45 - 13:
 Triplicate volume collected for
 MS/MSD analysis

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Wallkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: Sunny + 90°

Well ID: EMW-2
 PID Reading: 19.4
 Depth of well: 15.24
 Depth to water: 8.01
 Pump type: peristaltic

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
1236	18.16	6.76	155	1.14	0.0	1.08			clear
1239	17.81	6.60	147	1.14	0.0	0.83			
1242	17.70	6.60	122	1.14	0.0	0.58		110	
1245	17.47	6.61	112	1.14	0.0	0.53			
1248	17.27	6.62	119	1.14	0.0	0.48	8.07		
1251	17.24	6.63	87	1.14	0.0	0.47			
1254	17.25	6.63	76	1.14	0.0	0.47			
1257	17.25	6.63	75	1.14	0.0	0.46	8.09		
1300	17.24	6.64	70	1.14	0.0	0.45			
1303	17.18	6.66	64	1.13	0.0	0.44	8.09		
Sample							8.01		

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 1235/1305
 Total purge time: 30 min
 Total volume: ~ 1 gal
 Purge rate: 110 mL/min

CHARACTERISTICS:

Odor: none | slight | moderate | strong

Sheen: none | slight | moderate | strong

L/DNAPL: Yes No L/DNAPL thickness (in.): _____

NOTES:

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Walkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: _____

Well ID: LMW-1
 PID Reading: 39.1
 Depth of well: 15.83
 Depth to water: 7.59'
 Pump type: _____

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
12:03	20.49	5.34	66	0.427	5.7	4.15	7.69	100	
12:06	20.62	5.37	49	0.435	5.6	1.74	7.70	100	
12:09	20.47	5.36	40	0.434	2.0	1.43	7.70	100	
12:12	20.41	5.36	37	0.434	1.6	1.32	7.70	100	
12:15	20.35	5.35	34	0.433	2.8	1.88	7.70	100	
12:18	20.14	5.34	29	0.436	4.3	0.98			
12:21	20.06	5.34	29	0.439	3.5	0.92			
12:24	19.98	5.33	30	0.481	3.6	0.86	7.70	100	
12:27	19.91	5.31	33	0.624	3.4	0.83			
12:30	19.86	5.31	37	0.791	3.3	0.80			
12:33	19.81	5.33	38	0.843	3.5	0.78	7.70		
12:36	19.86	5.34	39	0.867	3.2	0.76			SAMPLE

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 11:47 - 12:36
 Total purge time: 49 min
 Total volume: ~1.5 gal
 Purge rate: 100 - 110 mL/min

CHARACTERISTICS: Sulfur
 Odor: none | slight | moderate | strong
 Sheen: none | slight | moderate | strong
 L/DNAPL: Yes | No | L/DNAPL thickness (in.): _____

NOTES:

12:36 - 12:40 sample time

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Walkkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: Sunny + 90°

Well ID: 1mw-2
 PID Reading: 11.2
 Depth of well: 15.75
 Depth to water: 7.60
 Pump type: peristaltic

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
1003	20.91	6.01	136	0.423	0.0	6.58			Clear
1006	20.05	5.67	149	0.423	0.0	5.10			
1009	20.05	5.63	173	0.423	0.0	4.69			
1012	18.76	5.55	187	0.430	0.0	4.25		110	
1015	18.14	5.55	189	0.431	0.0	4.30	7.72		
1018	17.49	5.56	191	0.431	0.0	4.13	7.73		
1021	17.23	5.57	193	0.429	0.0	3.84		100	
1024	17.15	5.56	195	0.427	0.0	3.59			
1027	17.23	5.58	196	0.425	0.0	3.61			
1030	17.46	5.59	197	0.422	0.0	3.62			
1033	17.39	5.62	198	0.420	0.0	3.48			
1036	17.20	5.68	196	0.422	0.0	3.27			
1039	17.13	5.70	196	0.423	0.0	3.14	7.78	110	
1045							7.70		

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 1000 / 1045
 Total purge time: 45 min
 Total volume: ~ 1.25 Gal
 Purge rate: 110 ml/min

CHARACTERISTICS:

Odor: none | slight | moderate | strong

Sheen: none | slight | moderate | strong

L/DNAPL: Yes (No) L/DNAPL thickness (in.):

NOTES:

↑ post sample

DUP-20200727 @ 10:50

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Wallkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: _____

Well ID: 1MW-5
 PID Reading: 3-4
 Depth of well: 16'
 Depth to water: 8.48'
 Pump type: Peristaltic Pump

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
10:47	21.68	5.33	59	0.982	0.0	3.26	8.55	120	
10:50	21.00	5.30	73	0.988	0.0	2.19	8.55	120	
10:53	20.41	5.40	74	0.992	0.0	1.85	8.56	120	
10:56	20.03	5.37	79	0.980	0.0	1.57	8.56	120	
10:59	19.69	5.35	84	0.975	0.0	1.36	8.57	120	
11:02	19.51	5.38	84	0.971	0.0	1.25	8.56	100	
11:05	19.48	5.38	85	0.971	0.0	1.24	8.56	110	
11:07	19.42	5.37	85	0.970	0.0	1.16	8.56	110	
11:10	19.38	5.36	87	0.967	0.0	1.06	8.56	110	SAMPLE

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 10:33 - 11:10
 Total purge time: 37 min
 Total volume: 0.9 Gallons
 Purge rate: 100 mL/sample - 120 mL/min

CHARACTERISTICS:

Odor: none | slight | moderate | strong

Sheen: none | slight | moderate | strong

L/DNAPL: Yes | No | L/DNAPL thickness (in.): _____

NOTES:

11:10 - 11:15 SAMPLE

GROUNDWATER MONITORING WELL PURGE DATA SHEET



TECHNICAL SERVICES

Project Name: Wallkill Wellfield
 GBTS PROJECT #: LM97145
 Date: 7/26/2020
 Field Personnel: MK + ES
 Weather: Sunny + 90°

Well ID: 1MW-6
 PID Reading: 6.2
 Depth of well: 14.34
 Depth to water: 7.89
 Pump type: peristaltic

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
1130	18.47	6.37	180	1.11	0.0	1.13			clear
1133	18.13	6.36	181	1.12	0.0	0.93			
1136	17.83	6.37	180	1.12	0.0	0.71			
1139	17.75	6.39	178	1.12	0.0	0.72	7.92	110	
1142	17.30	6.42	176	1.13	0.0	0.68			
1145	17.13	6.45	174	1.13	0.0	0.63			
1148	17.05	6.48	173	1.12	0.0	0.59			
1151	17.01	6.50	171	1.12	0.0	0.55			
1154	17.00	6.51	170	1.12	0.0	0.54	7.93		
1157	16.99	6.52	169	1.12	0.0	0.55			
1200	16.97	6.52	168	1.12	0.0	0.56			
1203	16.93	6.53	167	1.12	0.0	0.55			
1206				sample					
							7.92		

*** STABILIZATION CRITERIA ***

Temp +/- 3% pH +/- 0.1 ORP +/- 10 Spec Cond +/- 3% Turb +/- 10% DO +/- 10%

*** PURGED WATER DETAILS ***

Start/End time: 1130 / 1205
 Total purge time: 35 min
 Total volume: ~ 1 gal
 Purge rate: 110 mL/min

CHARACTERISTICS:

Odor: none | slight | moderate | strong

Sheen: none | slight | moderate | strong

L/DNAPL: Yes | No | L/DNAPL thickness (in.): _____

NOTES:

APPENDIX C: Data Summary Tables

Table 1: CVOCs in Soil, Baseline Data

Wallkill Wellfield Site

Phase I - Soil Remediation

All data in mg/Kg (ppm) U= Not Detected ≥ value PCE site-specific clean-up level 12 ppm	Sample ID	EMW-01 11-12		EMW-01 13-14		EMW-02 12-16		IMW-01 14-15		IMW-02 12-13	
	Sample Date	(2020-06-29)		(2020-06-29)		(2020-06-29)		(2020-06-30)		(2020-06-30)	
	Dilution Factor	100		100		100		100		100	
VOCs, 8260		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1,1-Trichloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1,2,2-Tetrachloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1,2-Trichloro-1,2,2-trifluoroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1,2-Trichloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1-Dichloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1-Dichloroethylene (1,1-DCE)		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,1-dichloropropylene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2,3-trichlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2,3-trichloropropane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2,4-trichlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2-dibromo-3-chloropropane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2-dichlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2-dichloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,2-dichloropropane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,3-dichlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,3-dichloropropane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
1,4-dichlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
2,2-dichloropropane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
2-chloroethylvinyl ether		0.0081	U	0.01	U	0.0084	U	0.0082	U	0.0089	U
2-chlorotoluene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
4-chlorotoluene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Bromochloromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Bromodichloromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Carbon tetrachloride		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Chlorobenzene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Chloroethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Chloroform		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Chloromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
cis-1,2-Dichloroethylene (cis-DCE)		0.25	E	0.06		0.045		0.048		0.023	
cis-1,3-Dichloropropylene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Dibromochloromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Dichlorodifluoromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Hexachlorobutadiene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Methylene chloride		0.004	U	0.005	U	0.0042	U	0.0041	U	0.0045	U
Tetrachloroethylene (PCE)		2.3	D	11	D	6.9	D	2.2	D	5.8	D
trans-1,2-Dichloroethylene (trans-DCE)		0.0022	J	0.0025	U	0.0021	U	0.002	U	0.0022	U
trans-1,3-Dichloropropylene		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Trichloroethylene (TCE)		0.42	D	0.11		0.093		0.078		0.058	
Trichlorofluoromethane		0.002	U	0.0025	U	0.0021	U	0.002	U	0.0022	U
Vinyl chloride (VC)		0.0088		0.0025	U	0.0021	U	0.002	U	0.0022	U

Analyte Detected

Result Qualifiers: J = approximate E = estimated D = diluted

Table 1: CVOCs in Soil, Baseline Data

Walkill Wellfield Site

Phase I - Soil Remediation

All data in mg/Kg (ppm) U= Not Detected ≥ value PCE site-specific clean-up level 12 ppm	Sample ID	IMW-05 11-12		IMW-05 13-14		IMW-06 11-12		DUP-20200630		IMW-06 13-15	
	Sample Date	(2020-06-30)		(2020-06-30)		(2020-06-30)		(2020-06-30)		(2020-06-30)	
	Dilution Factor	100		100		100		100		100	
VOCs, 8260		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1,1-Trichloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1,2,2-Tetrachloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1,2-Trichloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1-Dichloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1-Dichloroethylene (1,1-DCE)		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,1-dichloropropylene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2,3-trichlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2,3-trichloropropane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2,4-trichlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2-dibromo-3-chloropropane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2-dichlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2-dichloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,2-dichloropropane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,3-dichlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,3-dichloropropane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
1,4-dichlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
2,2-dichloropropane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
2-chloroethylvinyl ether		0.0092	U	0.0081	U	0.011	U	0.0096	U	0.012	U
2-chlorotoluene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
4-chlorotoluene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Bromochloromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Bromodichloromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Carbon tetrachloride		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Chlorobenzene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Chloroethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Chloroform		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Chloromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
cis-1,2-Dichloroethylene (cis-DCE)		0.097		0.08		0.55	E	0.55	D	0.11	
cis-1,3-Dichloropropylene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Dibromochloromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Dichlorodifluoromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Hexachlorobutadiene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Methylene chloride		0.0046	U	0.0041	U	0.0056	U	0.0048	U	0.0059	U
Tetrachloroethylene (PCE)		2.6	D	3.8	D	8	D	6.8	D	8.9	D
trans-1,2-Dichloroethylene (trans-DCE)		0.0023	U	0.002	U	0.0028	U	0.0037	J	0.003	U
trans-1,3-Dichloropropylene		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Trichloroethylene (TCE)		0.19		0.18		0.41		0.95	D	0.24	
Trichlorofluoromethane		0.0023	U	0.002	U	0.0028	U	0.0024	U	0.003	U
Vinyl chloride (VC)		0.0023	U	0.002	U	0.0098		0.015		0.003	U

Analyte Detected

Result Qualifiers: J = approximate E = estimated D = diluted

Table Page 2 of 4

Table 2: CVOCs in Groundwater, Baseline Data

Wallkill Wellfield Site

Phase I - Soil Remediation

All data in µg/L (parts per billion, ppb) U= Not Detected ≥ value Data above AWQS shown in Bold	Sample ID	IMW-1 20200727		IMW-2 20200727		DUP-20200727		IMW-5 20200727		IMW-6 20200727	
	Sample Date	(2020-07-27)		(2020-07-27)		(2020-07-27)		(2020-07-27)		(2020-07-27)	
	Dilution Factor	25		10		20		25		25	
VOCs, 8260	AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	0.82		0.2	U	0.2	U	0.67		0.84	
1,1,2,2-Tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1-Dichloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1-Dichloroethylene (1,1-DCE)	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,1-Dichloropropylene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2,3-Trichlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dichloropropane	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,3-Dichlorobenzene	3	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,3-Dichloropropane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1,4-Dichlorobenzene	3	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2,2-Dichloropropane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-Chlorotoluene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
4-Chlorotoluene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Bromochloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Bromodichloromethane	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Carbon tetrachloride	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chloroethane	5	14		0.2	U	0.2	U	0.2	U	0.2	U
Chloroform	7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Chloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene (cis-DCE)	5	558	D	120		117		354	D	755	D
cis-1,3-Dichloropropylene	0.4	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dibromochloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene (PCE)	5	741	D	332	D	365	D	1,130	D	936	D
trans-1,2-Dichloroethylene (trans-DCE)	5	5.1		1.04		1.03		3.54		8.04	
trans-1,3-Dichloropropylene	0.4	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Trichloroethylene (TCE)	5	203	D	134		132		175	D	263	D
Trichlorofluoromethane	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Vinyl chloride (VC)	2	30.1		0.2	U	0.42	J	100		65.5	

Analyte Detected

Concentrations above AWQS

Result Qualifiers: J = approximate D = diluted

AWQS = NYSDEC ambient water quality standard

Table 2: CVOCs in Groundwater, Baseline Data

Wallkill Wellfield Site

Phase I - Soil Remediation

All data in µg/L (parts per billion, ppb) U= Not Detected ≥ value Data above AWQS shown in Bold		Sample ID	EMW-1 20200727		EMW-2 20200727	
		Sample Date	(2020-07-27)		(2020-07-27)	
		Dilution Factor	25		50	
VOCs, 8260	AWQS		Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5		0.2	U	0.2	U
1,1,1-Trichloroethane	5		0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5		0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5		0.2	U	0.2	U
1,1,2-Trichloroethane	1		0.2	U	0.2	U
1,1-Dichloroethane	5		0.2	U	0.2	U
1,1-Dichloroethylene (1,1-DCE)	5		0.2	U	0.2	U
1,1-Dichloropropylene	5		0.2	U	0.2	U
1,2,3-Trichlorobenzene	5		0.2	U	0.2	U
1,2,3-Trichloropropane	0.04		0.2	U	0.2	U
1,2,4-Trichlorobenzene	5		0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04		0.2	U	0.2	U
1,2-Dichlorobenzene	3		0.2	U	0.2	U
1,2-Dichloroethane	0.6		0.2	U	0.2	U
1,2-Dichloropropane	1		0.2	U	0.2	U
1,3-Dichlorobenzene	3		0.2	U	0.2	U
1,3-Dichloropropane	5		0.2	U	0.2	U
1,4-Dichlorobenzene	3		0.2	U	0.2	U
2,2-Dichloropropane	5		0.2	U	0.2	U
2-Chlorotoluene	5		0.2	U	0.2	U
4-Chlorotoluene	5		0.2	U	0.2	U
Bromochloromethane	5		0.2	U	0.2	U
Bromodichloromethane	50		0.2	U	0.2	U
Carbon tetrachloride	5		0.2	U	0.2	U
Chlorobenzene	5		0.2	U	0.2	U
Chloroethane	5		0.2	U	0.2	U
Chloroform	7		0.2	U	0.2	U
Chloromethane	5		0.2	U	0.2	U
cis-1,2-Dichloroethylene (cis-DCE)	5		576	D	1,930	D
cis-1,3-Dichloropropylene	0.4		0.2	U	0.2	U
Dibromochloromethane	5		0.2	U	0.2	U
Dichlorodifluoromethane	5		0.2	U	0.2	U
Hexachlorobutadiene	0.5		0.2	U	0.2	U
Methylene chloride	5		1	U	1	U
Tetrachloroethylene (PCE)	5		1,240	D	786	D
trans-1,2-Dichloroethylene (trans-DCE)	5		6.29		40.8	
trans-1,3-Dichloropropylene	0.4		0.2	U	0.2	U
Trichloroethylene (TCE)	5		352	D	258	D
Trichlorofluoromethane	5		0.2	U	0.2	U
Vinyl chloride (VC)	2		113		499	D

Analyte Detected

Concentrations above AWQS

Result Qualifiers: J = approximate D = diluted

AWQS = NYSDEC ambient water quality standard

APPENDIX D: Laboratory Reports



Technical Report

prepared for:

Gallagher Bassett - Poughkeepsie, NY

22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Report Date: 07/09/2020

Client Project ID: LM97145

York Project (SDG) No.: 20F1157

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/09/2020
Client Project ID: LM97145
York Project (SDG) No.: 20F1157

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 30, 2020 and listed below. The project was identified as your project: **LM97145**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20F1157-01	EMW-01 11-12	Soil	06/29/2020	06/30/2020
20F1157-02	EMW-01 13-14	Soil	06/29/2020	06/30/2020
20F1157-03	EMW-02 12-16	Soil	06/29/2020	06/30/2020
20F1157-04	TB-20200629	Water	06/29/2020	06/30/2020

General Notes for York Project (SDG) No.: 20F1157

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 07/09/2020





Sample Information

Client Sample ID: EMW-01 11-12

York Sample ID: 20F1157-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20F1157

LM97145

Soil

June 29, 2020 12:00 am

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0081	0.016	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ



Sample Information

Client Sample ID: EMW-01 11-12

York Sample ID: 20F1157-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20F1157

LM97145

Soil

June 29, 2020 12:00 am

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.25	VOA-E	mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0040	0.0081	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
127-18-4	Tetrachloroethylene	2.3		mg/kg dry	0.20	0.40	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 11:35	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.0022	J	mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
79-01-6	Trichloroethylene	0.42		mg/kg dry	0.20	0.40	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 11:35	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
75-01-4	Vinyl Chloride	0.0088		mg/kg dry	0.0020	0.0040	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:28	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	99.6 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	76-130								



Sample Information

Client Sample ID: EMW-01 11-12

York Sample ID: 20F1157-01

York Project (SDG) No.
20F1157

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 29, 2020 12:00 am

Date Received
06/30/2020

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.8		%	0.100	1	SM 2540G Certifications: CTDOH	07/01/2020 08:30	07/01/2020 13:57	WJM

Sample Information

Client Sample ID: EMW-01 13-14

York Sample ID: 20F1157-02

York Project (SDG) No.
20F1157

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 29, 2020 12:00 am

Date Received
06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ



Sample Information

Client Sample ID: EMW-01 13-14

York Sample ID: 20F1157-02

York Project (SDG) No.
20F1157

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 29, 2020 12:00 am

Date Received
06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.010	0.020	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.060		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0050	0.010	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ
127-18-4	Tetrachloroethylene	11		mg/kg dry	0.25	0.50	100	EPA 8260C Certifications:	07/02/2020 10:09	07/08/2020 12:01	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications:	07/02/2020 10:09	07/03/2020 04:50	LLJ



Sample Information

Client Sample ID: EMW-01 13-14

York Sample ID: 20F1157-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20F1157

LM97145

Soil

June 29, 2020 12:00 am

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
79-01-6	Trichloroethylene	0.11		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/03/2020 04:50	LLJ
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	109 %									
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %									
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	108 %									

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.4		%	0.100	1	SM 2540G Certifications: CTDOH	07/01/2020 08:34	07/01/2020 14:29	WJM

Sample Information

Client Sample ID: EMW-02 12-16

York Sample ID: 20F1157-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20F1157

LM97145

Soil

June 29, 2020 12:00 am

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 10:09	07/08/2020 12:54	LLJ



Sample Information

Client Sample ID: EMW-02 12-16

York Sample ID: 20F1157-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20F1157

LM97145

Soil

June 29, 2020 12:00 am

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP	07/08/2020 12:54	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP	07/08/2020 12:54	LLJ
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0084	0.017	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications:	07/02/2020 10:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:54	LLJ



Sample Information

Client Sample ID: EMW-02 12-16

York Sample ID: 20F1157-03

York Project (SDG) No.

20F1157

Client Project ID

LM97145

Matrix

Soil

Collection Date/Time

June 29, 2020 12:00 am

Date Received

06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.045		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
75-09-2	Methylene chloride	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
127-18-4	Tetrachloroethylene	6.9		mg/kg dry	0.21	0.42	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 13:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
79-01-6	Trichloroethylene	0.093		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 10:09	07/08/2020 12:54	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	103 %	77-125								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	100 %	85-120								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	102 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.7		%	0.100	1	SM 2540G Certifications: CTDOH	07/01/2020 08:34	07/01/2020 14:29	WJM



Sample Information

Client Sample ID: TB-20200629

York Sample ID: 20F1157-04

York Project (SDG) No.
20F1157

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
June 29, 2020 12:00 am

Date Received
06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ



Sample Information

Client Sample ID: TB-20200629

York Sample ID: 20F1157-04

York Project (SDG) No.
20F1157

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
June 29, 2020 12:00 am

Date Received
06/30/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 12:11	07/02/2020 18:40	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	98.0 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	98.3 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	70-130								



Analytical Batch Summary

Batch ID: BG00006 **Preparation Method:** % Solids Prep **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20F1157-01	EMW-01 11-12	07/01/20

Batch ID: BG00007 **Preparation Method:** % Solids Prep **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20F1157-02	EMW-01 13-14	07/01/20
20F1157-03	EMW-02 12-16	07/01/20

Batch ID: BG00165 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F1157-04	TB-20200629	07/02/20
BG00165-BLK1	Blank	07/02/20
BG00165-BS1	LCS	07/02/20
BG00165-BSD1	LCS Dup	07/02/20

Batch ID: BG00168 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F1157-02	EMW-01 13-14	07/02/20
BG00168-BLK1	Blank	07/02/20
BG00168-BS1	LCS	07/02/20
BG00168-BSD1	LCS Dup	07/02/20

Batch ID: BG00377 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F1157-01	EMW-01 11-12	07/02/20
20F1157-01RE1	EMW-01 11-12	07/02/20
20F1157-02RE1	EMW-01 13-14	07/02/20
20F1157-03	EMW-02 12-16	07/02/20
20F1157-03RE1	EMW-02 12-16	07/02/20
BG00377-BLK1	Blank	07/08/20
BG00377-BLK2	Blank	07/08/20
BG00377-BS1	LCS	07/08/20
BG00377-BSD1	LCS Dup	07/08/20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00165 - EPA 5030B											
Blank (BG00165-BLK1)						Prepared & Analyzed: 07/02/2020					
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Tetrachloroethylene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	9.59		"	10.0		95.9	70-130				
Surrogate: SURR: Toluene-d8	9.86		"	10.0		98.6	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.5		"	10.0		105	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00165 - EPA 5030B											
LCS (BG00165-BS1)						Prepared & Analyzed: 07/02/2020					
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126			30	
1,1,1-Trichloroethane	12.8		"	10.0		128	70-130			20	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.5		"	10.0		145	70-130	High Bias		20	
1,1,2-Trichloroethane	9.76		"	10.0		97.6	70-130			20	
1,1-Dichloroethane	11.9		"	10.0		119	70-130			20	
1,1-Dichloroethylene	13.3		"	10.0		133	70-130	High Bias		20	
1,1-Dichloropropylene	12.8		"	10.0		128	83-133			30	
1,2,3-Trichlorobenzene	6.63		"	10.0		66.3	70-130	Low Bias		20	
1,2,3-Trichloropropane	10.6		"	10.0		106	77-128			30	
1,2,4-Trichlorobenzene	7.89		"	10.0		78.9	70-130			20	
1,2-Dibromo-3-chloropropane	9.06		"	10.0		90.6	40-160			20	
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130			20	
1,2-Dichloroethane	10.6		"	10.0		106	70-130			20	
1,2-Dichloropropane	10.4		"	10.0		104	70-130			20	
1,3-Dichlorobenzene	10.8		"	10.0		108	70-130			20	
1,3-Dichloropropane	10.1		"	10.0		101	81-125			30	
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130			20	
2,2-Dichloropropane	11.7		"	10.0		117	56-150			30	
2-Chlorotoluene	10.9		"	10.0		109	79-130			30	
4-Chlorotoluene	11.0		"	10.0		110	79-128			30	
Bromochloromethane	11.6		"	10.0		116	70-130			20	
Bromodichloromethane	10.3		"	10.0		103	70-130			20	
Carbon tetrachloride	12.8		"	10.0		128	70-130			20	
Chlorobenzene	10.8		"	10.0		108	70-130			20	
Chloroethane	12.7		"	10.0		127	40-160			20	
Chloroform	11.4		"	10.0		114	70-130			20	
Chloromethane	6.37		"	10.0		63.7	40-160			20	
cis-1,2-Dichloroethylene	11.6		"	10.0		116	70-130			20	
cis-1,3-Dichloropropylene	10.1		"	10.0		101	70-130			20	
Dibromochloromethane	9.92		"	10.0		99.2	70-130			20	
Dichlorodifluoromethane	17.0		"	10.0		170	40-160	High Bias		20	
Hexachlorobutadiene	7.99		"	10.0		79.9	67-146			30	
Methylene chloride	11.2		"	10.0		112	70-130			20	
Tetrachloroethylene	11.0		"	10.0		110	70-130			20	
trans-1,2-Dichloroethylene	12.5		"	10.0		125	70-130			20	
trans-1,3-Dichloropropylene	9.76		"	10.0		97.6	70-130			20	
Trichloroethylene	11.5		"	10.0		115	70-130			20	
Trichlorofluoromethane	14.6		"	10.0		146	40-160			20	
Vinyl Chloride	13.2		"	10.0		132	70-130	High Bias		20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.0		"	10.0		100	70-130				
Surrogate: SURR: Toluene-d8	9.81		"	10.0		98.1	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.2		"	10.0		102	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00165 - EPA 5030B											
LCS Dup (BG00165-BSD1)						Prepared & Analyzed: 07/02/2020					
1,1,1,2-Tetrachloroethane	10.8		ug/L	10.0		108	82-126		2.43	30	
1,1,1-Trichloroethane	12.2		"	10.0		122	70-130		5.03	20	
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	70-130		5.84	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.3		"	10.0		133	70-130	High Bias	8.91	20	
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130		6.83	20	
1,1-Dichloroethane	11.6		"	10.0		116	70-130		2.21	20	
1,1-Dichloroethylene	12.5		"	10.0		125	70-130		6.66	20	
1,1-Dichloropropylene	12.3		"	10.0		123	83-133		4.30	30	
1,2,3-Trichlorobenzene	8.81		"	10.0		88.1	70-130		28.2	20	Non-dir.
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128		7.01	30	
1,2,4-Trichlorobenzene	9.36		"	10.0		93.6	70-130		17.0	20	
1,2-Dibromo-3-chloropropane	10.2		"	10.0		102	40-160		12.3	20	
1,2-Dichlorobenzene	10.9		"	10.0		109	70-130		5.76	20	
1,2-Dichloroethane	11.5		"	10.0		115	70-130		7.50	20	
1,2-Dichloropropane	10.6		"	10.0		106	70-130		2.00	20	
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130		1.41	20	
1,3-Dichloropropane	10.7		"	10.0		107	81-125		5.87	30	
1,4-Dichlorobenzene	10.7		"	10.0		107	70-130		1.03	20	
2,2-Dichloropropane	12.2		"	10.0		122	56-150		4.34	30	
2-Chlorotoluene	10.8		"	10.0		108	79-130		1.47	30	
4-Chlorotoluene	11.1		"	10.0		111	79-128		0.635	30	
Bromochloromethane	12.2		"	10.0		122	70-130		5.12	20	
Bromodichloromethane	10.5		"	10.0		105	70-130		2.12	20	
Carbon tetrachloride	12.1		"	10.0		121	70-130		5.71	20	
Chlorobenzene	10.9		"	10.0		109	70-130		1.01	20	
Chloroethane	12.1		"	10.0		121	40-160		5.00	20	
Chloroform	11.6		"	10.0		116	70-130		1.65	20	
Chloromethane	7.20		"	10.0		72.0	40-160		12.2	20	
cis-1,2-Dichloroethylene	11.6		"	10.0		116	70-130		0.689	20	
cis-1,3-Dichloropropylene	10.9		"	10.0		109	70-130		6.95	20	
Dibromochloromethane	10.5		"	10.0		105	70-130		6.06	20	
Dichlorodifluoromethane	13.7		"	10.0		137	40-160		21.0	20	Non-dir.
Hexachlorobutadiene	9.21		"	10.0		92.1	67-146		14.2	30	
Methylene chloride	11.5		"	10.0		115	70-130		3.00	20	
Tetrachloroethylene	10.6		"	10.0		106	70-130		3.61	20	
trans-1,2-Dichloroethylene	12.2		"	10.0		122	70-130		2.27	20	
trans-1,3-Dichloropropylene	10.4		"	10.0		104	70-130		6.83	20	
Trichloroethylene	11.1		"	10.0		111	70-130		3.37	20	
Trichlorofluoromethane	13.1		"	10.0		131	40-160		10.5	20	
Vinyl Chloride	12.1		"	10.0		121	70-130		8.79	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURR: Toluene-d8	9.80		"	10.0		98.0	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00168 - EPA 5035A

Blank (BG00168-BLK1)

Prepared: 07/02/2020 Analyzed: 07/03/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,1-Dichloroethylene	ND	0.0050	"
1,1-Dichloropropylene	ND	0.0050	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
2-Chloroethylvinyl ether	ND	0.020	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
cis-1,2-Dichloroethylene	ND	0.0050	"
cis-1,3-Dichloropropylene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Methylene chloride	ND	0.010	"
Tetrachloroethylene	ND	0.0050	"
trans-1,2-Dichloroethylene	ND	0.0050	"
trans-1,3-Dichloropropylene	ND	0.0050	"
Trichloroethylene	ND	0.0050	"
Trichlorofluoromethane	ND	0.0050	"
Vinyl Chloride	ND	0.0050	"

Surrogate: SURR: 1,2-Dichloroethane-d4	53.6	ug/L	50.0	107	77-125
Surrogate: SURR: Toluene-d8	50.7	"	50.0	101	85-120
Surrogate: SURR: p-Bromofluorobenzene	53.4	"	50.0	107	76-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00168 - EPA 5035A											
LCS (BG00168-BS1)						Prepared: 07/02/2020 Analyzed: 07/03/2020					
1,1,1,2-Tetrachloroethane	53.0		ug/L	50.0		106	75-129				
1,1,1-Trichloroethane	61.8		"	50.0		124	71-137				
1,1,2,2-Tetrachloroethane	52.8		"	50.0		106	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	92.4		"	50.0		185	58-146	High Bias			
1,1,2-Trichloroethane	52.0		"	50.0		104	83-123				
1,1-Dichloroethane	57.8		"	50.0		116	75-130				
1,1-Dichloroethylene	64.2		"	50.0		128	64-137				
1,1-Dichloropropylene	59.2		"	50.0		118	77-127				
1,2,3-Trichlorobenzene	46.1		"	50.0		92.3	81-140				
1,2,3-Trichloropropane	58.1		"	50.0		116	81-126				
1,2,4-Trichlorobenzene	42.6		"	50.0		85.2	80-141				
1,2-Dibromo-3-chloropropane	56.3		"	50.0		113	74-142				
1,2-Dichlorobenzene	49.8		"	50.0		99.6	85-122				
1,2-Dichloroethane	63.1		"	50.0		126	71-133				
1,2-Dichloropropane	53.9		"	50.0		108	81-122				
1,3-Dichlorobenzene	48.8		"	50.0		97.7	84-124				
1,3-Dichloropropane	54.9		"	50.0		110	83-123				
1,4-Dichlorobenzene	47.0		"	50.0		94.1	84-124				
2,2-Dichloropropane	58.0		"	50.0		116	67-136				
2-Chloroethylvinyl ether	60.5		"	50.0		121	10-166				
2-Chlorotoluene	53.3		"	50.0		107	78-127				
4-Chlorotoluene	47.1		"	50.0		94.1	79-125				
Bromochloromethane	56.1		"	50.0		112	74-129				
Bromodichloromethane	54.1		"	50.0		108	81-124				
Carbon tetrachloride	58.8		"	50.0		118	66-143				
Chlorobenzene	52.2		"	50.0		104	86-120				
Chloroethane	91.0		"	50.0		182	51-142	High Bias			
Chloroform	58.4		"	50.0		117	76-131				
Chloromethane	82.0		"	50.0		164	49-132	High Bias			
cis-1,2-Dichloroethylene	57.6		"	50.0		115	74-132				
cis-1,3-Dichloropropylene	51.9		"	50.0		104	81-129				
Dibromochloromethane	50.8		"	50.0		102	10-200				
Dichlorodifluoromethane	79.0		"	50.0		158	28-158				
Hexachlorobutadiene	53.6		"	50.0		107	83-133				
Methylene chloride	57.2		"	50.0		114	57-141				
Tetrachloroethylene	49.9		"	50.0		99.8	80-129				
trans-1,2-Dichloroethylene	60.2		"	50.0		120	72-132				
trans-1,3-Dichloropropylene	50.5		"	50.0		101	78-132				
Trichloroethylene	57.5		"	50.0		115	84-123				
Trichlorofluoromethane	92.4		"	50.0		185	62-140	High Bias			
Vinyl Chloride	81.6		"	50.0		163	52-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	56.8		"	50.0		114	77-125				
Surrogate: SURR: Toluene-d8	50.1		"	50.0		100	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.6		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00168 - EPA 5035A											
LCS Dup (BG00168-BSD1)						Prepared: 07/02/2020 Analyzed: 07/03/2020					
1,1,1,2-Tetrachloroethane	56.1		ug/L	50.0		112	75-129		5.70	30	
1,1,1-Trichloroethane	66.0		"	50.0		132	71-137		6.52	30	
1,1,2,2-Tetrachloroethane	55.5		"	50.0		111	79-129		4.91	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	95.3		"	50.0		191	58-146	High Bias	3.09	30	
1,1,2-Trichloroethane	53.4		"	50.0		107	83-123		2.62	30	
1,1-Dichloroethane	60.8		"	50.0		122	75-130		5.01	30	
1,1-Dichloroethylene	68.2		"	50.0		136	64-137		6.15	30	
1,1-Dichloropropylene	62.6		"	50.0		125	77-127		5.63	30	
1,2,3-Trichlorobenzene	50.0		"	50.0		100	81-140		8.03	30	
1,2,3-Trichloropropane	60.5		"	50.0		121	81-126		4.06	30	
1,2,4-Trichlorobenzene	48.1		"	50.0		96.1	80-141		12.1	30	
1,2-Dibromo-3-chloropropane	58.4		"	50.0		117	74-142		3.64	30	
1,2-Dichlorobenzene	53.5		"	50.0		107	85-122		7.18	30	
1,2-Dichloroethane	64.5		"	50.0		129	71-133		2.24	30	
1,2-Dichloropropane	56.2		"	50.0		112	81-122		4.20	30	
1,3-Dichlorobenzene	53.8		"	50.0		108	84-124		9.68	30	
1,3-Dichloropropane	56.7		"	50.0		113	83-123		3.15	30	
1,4-Dichlorobenzene	51.8		"	50.0		104	84-124		9.59	30	
2,2-Dichloropropane	61.0		"	50.0		122	67-136		5.01	30	
2-Chloroethylvinyl ether	61.0		"	50.0		122	10-166		0.806	30	
2-Chlorotoluene	58.5		"	50.0		117	78-127		9.19	30	
4-Chlorotoluene	51.8		"	50.0		104	79-125		9.47	30	
Bromochloromethane	58.2		"	50.0		116	74-129		3.67	30	
Bromodichloromethane	56.1		"	50.0		112	81-124		3.63	30	
Carbon tetrachloride	62.5		"	50.0		125	66-143		6.07	30	
Chlorobenzene	55.4		"	50.0		111	86-120		5.95	30	
Chloroethane	98.1		"	50.0		196	51-142	High Bias	7.45	30	
Chloroform	61.5		"	50.0		123	76-131		5.21	30	
Chloromethane	84.8		"	50.0		170	49-132	High Bias	3.25	30	
cis-1,2-Dichloroethylene	60.1		"	50.0		120	74-132		4.30	30	
cis-1,3-Dichloropropylene	54.4		"	50.0		109	81-129		4.65	30	
Dibromochloromethane	52.6		"	50.0		105	10-200		3.35	30	
Dichlorodifluoromethane	82.8		"	50.0		166	28-158	High Bias	4.61	30	
Hexachlorobutadiene	59.4		"	50.0		119	83-133		10.3	30	
Methylene chloride	59.5		"	50.0		119	57-141		3.90	30	
Tetrachloroethylene	54.6		"	50.0		109	80-129		8.98	30	
trans-1,2-Dichloroethylene	64.0		"	50.0		128	72-132		6.15	30	
trans-1,3-Dichloropropylene	52.9		"	50.0		106	78-132		4.74	30	
Trichloroethylene	61.2		"	50.0		122	84-123		6.30	30	
Trichlorofluoromethane	95.3		"	50.0		191	62-140	High Bias	3.09	30	
Vinyl Chloride	84.6		"	50.0		169	52-130	High Bias	3.63	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	55.5		"	50.0		111	77-125				
Surrogate: SURR: Toluene-d8	49.7		"	50.0		99.5	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.4		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00377 - EPA 5035A

Blank (BG00377-BLK1)

Prepared & Analyzed: 07/08/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Chloroethylvinyl ether	ND	0.020	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Tetrachloroethylene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	51.3		ug/L	50.0		103	77-125				
Surrogate: SURR: Toluene-d8	49.4		"	50.0		98.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.7		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00377 - EPA 5035A

Blank (BG00377-BLK2)

Prepared & Analyzed: 07/08/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Chloroethylvinyl ether	ND	0.020	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Tetrachloroethylene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	51.0		ug/L	50.0		102	77-125				
Surrogate: SURR: Toluene-d8	49.4		"	50.0		98.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.5		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00377 - EPA 5035A											
LCS (BG00377-BS1)						Prepared & Analyzed: 07/08/2020					
1,1,1,2-Tetrachloroethane	45.6		ug/L	50.0		91.2	75-129				
1,1,1-Trichloroethane	52.7		"	50.0		105	71-137				
1,1,2,2-Tetrachloroethane	45.4		"	50.0		90.8	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	68.3		"	50.0		137	58-146				
1,1,2-Trichloroethane	45.0		"	50.0		89.9	83-123				
1,1-Dichloroethane	50.8		"	50.0		102	75-130				
1,1-Dichloroethylene	53.9		"	50.0		108	64-137				
1,1-Dichloropropylene	52.9		"	50.0		106	77-127				
1,2,3-Trichlorobenzene	46.4		"	50.0		92.8	81-140				
1,2,3-Trichloropropane	48.0		"	50.0		96.0	81-126				
1,2,4-Trichlorobenzene	46.8		"	50.0		93.6	80-141				
1,2-Dibromo-3-chloropropane	43.6		"	50.0		87.3	74-142				
1,2-Dichlorobenzene	46.0		"	50.0		92.1	85-122				
1,2-Dichloroethane	52.5		"	50.0		105	71-133				
1,2-Dichloropropane	45.0		"	50.0		90.1	81-122				
1,3-Dichlorobenzene	47.1		"	50.0		94.2	84-124				
1,3-Dichloropropane	46.2		"	50.0		92.4	83-123				
1,4-Dichlorobenzene	46.7		"	50.0		93.3	84-124				
2,2-Dichloropropane	52.1		"	50.0		104	67-136				
2-Chloroethylvinyl ether	55.1		"	50.0		110	10-166				
2-Chlorotoluene	46.3		"	50.0		92.6	78-127				
4-Chlorotoluene	46.5		"	50.0		93.0	79-125				
Bromochloromethane	48.1		"	50.0		96.2	74-129				
Bromodichloromethane	44.4		"	50.0		88.8	81-124				
Carbon tetrachloride	50.0		"	50.0		99.9	66-143				
Chlorobenzene	46.8		"	50.0		93.5	86-120				
Chloroethane	65.9		"	50.0		132	51-142				
Chloroform	51.8		"	50.0		104	76-131				
Chloromethane	70.2		"	50.0		140	49-132	High Bias			
cis-1,2-Dichloroethylene	50.1		"	50.0		100	74-132				
cis-1,3-Dichloropropylene	45.4		"	50.0		90.8	81-129				
Dibromochloromethane	44.2		"	50.0		88.3	10-200				
Dichlorodifluoromethane	76.2		"	50.0		152	28-158				
Hexachlorobutadiene	50.1		"	50.0		100	83-133				
Methylene chloride	49.5		"	50.0		99.0	57-141				
Tetrachloroethylene	48.1		"	50.0		96.2	80-129				
trans-1,2-Dichloroethylene	53.5		"	50.0		107	72-132				
trans-1,3-Dichloropropylene	44.0		"	50.0		88.1	78-132				
Trichloroethylene	49.4		"	50.0		98.9	84-123				
Trichlorofluoromethane	68.3		"	50.0		137	62-140				
Vinyl Chloride	68.2		"	50.0		136	52-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	52.0		"	50.0		104	77-125				
Surrogate: SURR: Toluene-d8	48.8		"	50.0		97.6	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.3		"	50.0		98.7	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00377 - EPA 5035A											
LCS Dup (BG00377-BSD1)						Prepared & Analyzed: 07/08/2020					
1,1,1,2-Tetrachloroethane	49.2		ug/L	50.0		98.4	75-129		7.64	30	
1,1,1-Trichloroethane	58.1		"	50.0		116	71-137		9.86	30	
1,1,2,2-Tetrachloroethane	50.2		"	50.0		100	79-129		9.96	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	74.8		"	50.0		150	58-146	High Bias	9.06	30	
1,1,2-Trichloroethane	48.3		"	50.0		96.6	83-123		7.12	30	
1,1-Dichloroethane	55.3		"	50.0		111	75-130		8.48	30	
1,1-Dichloroethylene	60.3		"	50.0		121	64-137		11.2	30	
1,1-Dichloropropylene	58.6		"	50.0		117	77-127		10.3	30	
1,2,3-Trichlorobenzene	50.6		"	50.0		101	81-140		8.66	30	
1,2,3-Trichloropropane	54.3		"	50.0		109	81-126		12.4	30	
1,2,4-Trichlorobenzene	50.3		"	50.0		101	80-141		7.21	30	
1,2-Dibromo-3-chloropropane	49.6		"	50.0		99.1	74-142		12.7	30	
1,2-Dichlorobenzene	49.5		"	50.0		98.9	85-122		7.14	30	
1,2-Dichloroethane	56.6		"	50.0		113	71-133		7.37	30	
1,2-Dichloropropane	48.3		"	50.0		96.6	81-122		7.03	30	
1,3-Dichlorobenzene	51.0		"	50.0		102	84-124		7.89	30	
1,3-Dichloropropane	50.2		"	50.0		100	83-123		8.24	30	
1,4-Dichlorobenzene	50.0		"	50.0		100	84-124		6.93	30	
2,2-Dichloropropane	57.4		"	50.0		115	67-136		9.72	30	
2-Chloroethylvinyl ether	59.8		"	50.0		120	10-166		8.21	30	
2-Chlorotoluene	50.4		"	50.0		101	78-127		8.50	30	
4-Chlorotoluene	50.8		"	50.0		102	79-125		8.82	30	
Bromochloromethane	52.3		"	50.0		105	74-129		8.42	30	
Bromodichloromethane	48.3		"	50.0		96.5	81-124		8.33	30	
Carbon tetrachloride	55.4		"	50.0		111	66-143		10.3	30	
Chlorobenzene	50.4		"	50.0		101	86-120		7.61	30	
Chloroethane	74.4		"	50.0		149	51-142	High Bias	12.1	30	
Chloroform	56.6		"	50.0		113	76-131		8.88	30	
Chloromethane	77.5		"	50.0		155	49-132	High Bias	9.83	30	
cis-1,2-Dichloroethylene	55.3		"	50.0		111	74-132		9.77	30	
cis-1,3-Dichloropropylene	49.3		"	50.0		98.7	81-129		8.27	30	
Dibromochloromethane	47.9		"	50.0		95.8	10-200		8.13	30	
Dichlorodifluoromethane	86.2		"	50.0		172	28-158	High Bias	12.3	30	
Hexachlorobutadiene	54.5		"	50.0		109	83-133		8.41	30	
Methylene chloride	54.7		"	50.0		109	57-141		9.98	30	
Tetrachloroethylene	52.8		"	50.0		106	80-129		9.22	30	
trans-1,2-Dichloroethylene	58.1		"	50.0		116	72-132		8.22	30	
trans-1,3-Dichloropropylene	47.4		"	50.0		94.9	78-132		7.43	30	
Trichloroethylene	53.5		"	50.0		107	84-123		7.89	30	
Trichlorofluoromethane	74.8		"	50.0		150	62-140	High Bias	9.06	30	
Vinyl Chloride	76.1		"	50.0		152	52-130	High Bias	10.9	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	52.7		"	50.0		105	77-125				
Surrogate: SURR: Toluene-d8	48.9		"	50.0		97.8	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.7		"	50.0		99.5	76-130				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20F1157-01	EMW-01 11-12	40mL Vial with Stir Bar-Cool 4° C
20F1157-02	EMW-01 13-14	40mL Vial with Stir Bar-Cool 4° C
20F1157-03	EMW-02 12-16	40mL Vial with Stir Bar-Cool 4° C
20F1157-04	TB-20200629	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

VOA-E	The concentration reported for this analyte is an estimated value above the linear range of the instrument for EPA SW846-5035/8260 (>200ppb). Re-analysis using 5035/8260 medium level prep. resulted in a detection below the reporting limit (<500ppb).
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

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

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

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



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

Certification for pH is no longer offered by NYDOH ELAP.

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

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



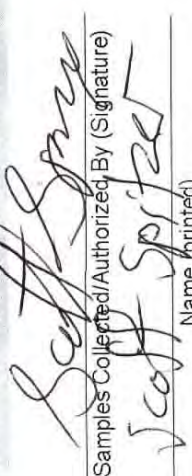
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page 7 of 7

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

York Project No. 20F1157

YOUR Information		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Gallagher Bassett Company: Technical Services	SAME	Name: Scott Spitzer		SAME		LM97145		RUSH-Same Day	Summary Report	X	
Address: 22 IBM Road	Name:	Company:		Name: Brenda		Purchase Order #		RUSH-Next Day	QA Report		
Poughkeepsie, NY	Address:	Address:						RUSH-Two Day	CT RCP		
Phone: (845) 452-1658	E-mail:	E-mail:						RUSH-Three Day	CT RCP DQADUE Pkg		
Contact: Scott Spitzer								RUSH-Four Day	NY ASP A Package		
E-mail:								Standard (5-7day)	NY ASP B Package	X	
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.										NJDEP Reduced Deliv	
				Matrix Codes		Volatiles		Metals		Full Lists	
S - soil				8260 full		TTC's		RCRA8		Pri.Poll.	
Other - specify(oil, etc)				624		Site Spec.		PP13 list		TCL Organics	
WW - wastewater				STARS list		Nassau Co.		BN Only		TAL Met/CN	
GW - groundwater				BTX		Suffolk Co.		Acids Only		Full TCLP	
DW - drinking water				MTBE		Ketones		PAH list		Full App IX	
Air-A - ambient air				TCL list		Oxygenates		TAGM list		Part360-Petroleum	
Air-SV - soil vapor				TAGM list		TCLP list		Site Spec.		GIS/KEY (std)	
				CT RCP list		524.2		Dissolved		YORK Regulatory Comp Excel	
				Arom. only		502.2		SELP or TCLP		compared to:	
				Halogen only		NIDEF list		Indic. Metals			
				App.IX list		SELP or TCLP		LIST Below			
				8021B list				Helium		OTHER:	
Sample Identification		Date Sampled	Matrix	Analysis Requested (List above includes common analysis)				Container Description			
EMW-01 11-12	6/29/2020	Soil	↓	VOCs, chlorinated (8260)				1 X VOA kit			
EMW-01 13-14		↓						↓			
EMW-02 12-16								2 X 40 ml			
TB-20200629			Trip Blank								
Comments:										Temperature on Receipt	
VOA kit: 4 X 40ml vials, laboratory supplied										24 °C	
Preservation (check all applicable)			Special Instructions			Samples Relinquished By			Date/Time		
Field Filtered ☐ Lab to Filter ☐			Field Filtered ☐ Lab to Filter ☐			Samples Relinquished By			Date/Time		
4°C _____ Frozen _____ HCl _____ MeOH _____ HNO ₃ _____ NaOH _____			ZnAc _____ Ascorbic Acid _____ Other _____			Samples Received By			Date/Time		
6-30-20			6-30-20			Samples Received In LAB by			Date/Time		



Technical Report

prepared for:

Gallagher Bassett - Poughkeepsie, NY

22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Report Date: 07/09/2020

Client Project ID: LM97145

York Project (SDG) No.: 20G0022

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/09/2020
Client Project ID: LM97145
York Project (SDG) No.: 20G0022

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 01, 2020 and listed below. The project was identified as your project: **LM97145**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20G0022-01	IMW-01 14-15	Soil	06/30/2020	07/01/2020
20G0022-02	IMW-02 12-13	Soil	06/30/2020	07/01/2020
20G0022-03	IMW-05 11-12	Soil	06/30/2020	07/01/2020
20G0022-04	IMW-05 13-14	Soil	06/30/2020	07/01/2020
20G0022-05	IMW-06 11-12	Soil	06/30/2020	07/01/2020
20G0022-06	IMW-06 13-15	Soil	06/30/2020	07/01/2020
20G0022-07	DUP-20200630	Soil	06/30/2020	07/01/2020
20G0022-08	IMW-01 14-15	Soil	06/30/2020	07/01/2020
20G0022-09	TB-20200630	Water	06/30/2020	07/01/2020

General Notes for York Project (SDG) No.: 20G0022

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 07/09/2020





Sample Information

Client Sample ID: IMW-01 14-15

York Sample ID: 20G0022-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:23	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:23	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:23	SS



Sample Information

Client Sample ID: IMW-01 14-15

York Sample ID: 20G0022-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
156-59-2	cis-1,2-Dichloroethylene	0.048		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
127-18-4	Tetrachloroethylene	2.2		mg/kg dry	0.20	0.41	100	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2020 18:22	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
79-01-6	Trichloroethylene	0.078		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 14:23	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	106 %	77-125								
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	86.7 %	85-120								
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	101 %	76-130								



Sample Information

Client Sample ID: IMW-01 14-15

York Sample ID: 20G0022-01

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.8		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:19	07/06/2020 16:21	WJM

Sample Information

Client Sample ID: IMW-02 12-13

York Sample ID: 20G0022-02

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:50	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS



Sample Information

Client Sample ID: IMW-02 12-13

York Sample ID: 20G0022-02

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 14:50	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0089	0.018	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
156-59-2	cis-1,2-Dichloroethylene	0.023		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
127-18-4	Tetrachloroethylene	5.8		mg/kg dry	0.22	0.45	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 18:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS



Sample Information

Client Sample ID: IMW-02 12-13

York Sample ID: 20G0022-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
79-01-6	Trichloroethylene	0.058		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 14:50	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	107 %									
2037-26-5	Surrogate: SURRE: Toluene-d8	87.9 %									
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	101 %									

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.2		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:19	07/06/2020 16:21	WJM

Sample Information

Client Sample ID: IMW-05 11-12

York Sample ID: 20G0022-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 15:16	SS



Sample Information

Client Sample ID: IMW-05 11-12

York Sample ID: 20G0022-03

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 15:16	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0092	0.018	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 15:16	SS



Sample Information

Client Sample ID: IMW-05 11-12

York Sample ID: 20G0022-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	0.097		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
127-18-4	Tetrachloroethylene	2.6		mg/kg dry	0.23	0.46	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 19:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
79-01-6	Trichloroethylene	0.19		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:16	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	87.5 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.2 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.5		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:19	07/06/2020 16:21	WJM



Sample Information

Client Sample ID: IMW-05 13-14

York Sample ID: 20G0022-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 15:43	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 15:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 15:43	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0081	0.016	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS



Sample Information

Client Sample ID: IMW-05 13-14

York Sample ID: 20G0022-04

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
156-59-2	cis-1,2-Dichloroethylene	0.080		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0041	0.0081	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
127-18-4	Tetrachloroethylene	3.8		mg/kg dry	0.20	0.41	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 19:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
79-01-6	Trichloroethylene	0.18		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 15:43	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	89.3 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	107 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: IMW-05 13-14

York Sample ID: 20G0022-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.6		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:19	07/06/2020 16:21	WJM

Sample Information

Client Sample ID: IMW-06 11-12

York Sample ID: 20G0022-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 16:09	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 16:09	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS



Sample Information

Client Sample ID: IMW-06 11-12

York Sample ID: 20G0022-05

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.011	0.022	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
156-59-2	cis-1,2-Dichloroethylene	0.55	E	mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
127-18-4	Tetrachloroethylene	8.0		mg/kg dry	0.28	0.56	100	EPA 8260C Certifications:	07/02/2020 09:30	07/06/2020 20:12	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications:	07/02/2020 09:30	07/02/2020 16:09	SS



Sample Information

Client Sample ID: IMW-06 11-12

York Sample ID: 20G0022-05

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	0.41		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
75-01-4	Vinyl Chloride	0.0098		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:09	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %		77-125							
2037-26-5	Surrogate: SURR: Toluene-d8	87.7 %		85-120							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.0 %		76-130							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.4		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:21	07/06/2020 16:26	WJM

Sample Information

Client Sample ID: IMW-06 13-15

York Sample ID: 20G0022-06

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 16:36	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS



Sample Information

Client Sample ID: IMW-06 13-15

York Sample ID: 20G0022-06

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 16:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 16:36	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.012	0.024	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications:	07/02/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 16:36	SS



Sample Information

Client Sample ID: IMW-06 13-15

York Sample ID: 20G0022-06

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
156-59-2	cis-1,2-Dichloroethylene	0.11		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
127-18-4	Tetrachloroethylene	8.9		mg/kg dry	0.30	0.59	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 20:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
79-01-6	Trichloroethylene	0.24		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 16:36	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	89.3 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.7		%	0.100	1	SM 2540G Certifications: CTDOH	07/06/2020 08:21	07/06/2020 16:26	WJM



Sample Information

Client Sample ID: DUP-20200630

York Sample ID: 20G0022-07

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Soil

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 17:02	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 17:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/02/2020 09:30	07/02/2020 17:02	SS
110-75-8	2-Chloroethylvinyl ether	ND		mg/kg dry	0.0096	0.019	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS



Sample Information

Client Sample ID: DUP-20200630

York Sample ID: 20G0022-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
156-59-2	cis-1,2-Dichloroethylene	0.55		mg/kg dry	0.24	0.48	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 21:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
127-18-4	Tetrachloroethylene	6.8		mg/kg dry	0.24	0.48	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 21:08	SS
156-60-5	trans-1,2-Dichloroethylene	0.0037	J	mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
79-01-6	Trichloroethylene	0.95		mg/kg dry	0.24	0.48	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/06/2020 21:08	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
75-01-4	Vinyl Chloride	0.015		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/02/2020 09:30	07/02/2020 17:02	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	114 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	87.4 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: DUP-20200630

York Sample ID: 20G0022-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.2		%	0.100	1	SM 2540G	07/06/2020 08:21	07/06/2020 16:26	WJM
							Certifications:	CTDOH		

Sample Information

Client Sample ID: IMW-01 14-15

York Sample ID: 20G0022-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Soil

June 30, 2020 12:00 am

07/01/2020

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	ND		mg/kg dry	10.3	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	07/07/2020 07:49	07/08/2020 13:43	SGM
	Surrogate Recoveries	Result		Acceptance Range						
638-68-6	Surrogate: Triacotane	86.4 %		30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

					Reported to			Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	37.0	B	mg/kg dry	17.8	100	EPA 8015D	07/02/2020 12:00	07/02/2020 21:21	SS
							Certifications:	NELAC-NY10854,NJDEP,PADEP		
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	70-130							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.8		%	0.100	1	SM 2540G	07/06/2020 08:21	07/06/2020 16:26	WJM
							Certifications:	CTDOH		



Sample Information

Client Sample ID: TB-20200630

York Sample ID: 20G0022-09

York Project (SDG) No.
20G0022

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
June 30, 2020 12:00 am

Date Received
07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/07/2020 09:30	07/07/2020 13:53	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS



Sample Information

Client Sample ID: TB-20200630

York Sample ID: 20G0022-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0022

LM97145

Water

June 30, 2020 12:00 am

07/01/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 09:30	07/07/2020 13:53	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	98.5 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	112 %	70-130								



Analytical Batch Summary

Batch ID: BG00094

Preparation Method: EPA 5035A

Prepared By: CLO

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-01	IMW-01 14-15	07/02/20
20G0022-02	IMW-02 12-13	07/02/20
20G0022-03	IMW-05 11-12	07/02/20
20G0022-04	IMW-05 13-14	07/02/20
20G0022-05	IMW-06 11-12	07/02/20
20G0022-06	IMW-06 13-15	07/02/20
20G0022-07	DUP-20200630	07/02/20
BG00094-BLK1	Blank	07/02/20
BG00094-BLK2	Blank	07/02/20
BG00094-BS1	LCS	07/02/20
BG00094-BSD1	LCS Dup	07/02/20

Batch ID: BG00115

Preparation Method: EPA 5030B/1311

Prepared By: CLO

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-08	IMW-01 14-15	07/02/20
BG00115-BLK1	Blank	07/02/20
BG00115-SRM1	Reference	07/02/20

Batch ID: BG00179

Preparation Method: % Solids Prep

Prepared By: WJM

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-01	IMW-01 14-15	07/06/20
20G0022-02	IMW-02 12-13	07/06/20
20G0022-03	IMW-05 11-12	07/06/20
20G0022-04	IMW-05 13-14	07/06/20

Batch ID: BG00180

Preparation Method: % Solids Prep

Prepared By: WJM

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-05	IMW-06 11-12	07/06/20
20G0022-06	IMW-06 13-15	07/06/20
20G0022-07	DUP-20200630	07/06/20
20G0022-08	IMW-01 14-15	07/06/20

Batch ID: BG00219

Preparation Method: EPA 5035A

Prepared By: CLO

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-01RE1	IMW-01 14-15	07/02/20
20G0022-02RE1	IMW-02 12-13	07/02/20
20G0022-03RE1	IMW-05 11-12	07/02/20
20G0022-04RE1	IMW-05 13-14	07/02/20
20G0022-05RE1	IMW-06 11-12	07/02/20



20G0022-06RE1	IMW-06 13-15	07/02/20
20G0022-07RE1	DUP-20200630	07/02/20
BG00219-BLK1	Blank	07/06/20
BG00219-BLK2	Blank	07/06/20
BG00219-BS1	LCS	07/06/20
BG00219-BSD1	LCS Dup	07/06/20

Batch ID: BG00263 **Preparation Method:** EPA 3550C **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-08	IMW-01 14-15	07/07/20
BG00263-BLK1	Blank	07/07/20
BG00263-BS1	LCS	07/07/20

Batch ID: BG00280 **Preparation Method:** EPA 5030B **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20G0022-09	TB-20200630	07/07/20
BG00280-BLK1	Blank	07/07/20
BG00280-BS1	LCS	07/07/20
BG00280-BSD1	LCS Dup	07/07/20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00094 - EPA 5035A

Blank (BG00094-BLK1)

Prepared & Analyzed: 07/02/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Chloroethylvinyl ether	ND	0.020	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Tetrachloroethylene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	53.4		ug/L	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	44.5		"	50.0		89.0	85-120				
Surrogate: SURR: p-Bromofluorobenzene	48.3		"	50.0		96.6	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00094 - EPA 5035A

Blank (BG00094-BLK2)

Prepared & Analyzed: 07/02/2020

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chloroethylvinyl ether	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Methylene chloride	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	53.5		ug/L	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	44.5		"	50.0		88.9	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.9		"	50.0		95.9	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00094 - EPA 5035A											
LCS (BG00094-BS1)						Prepared & Analyzed: 07/02/2020					
1,1,1,2-Tetrachloroethane	51.3		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	64.0		"	50.0		128	71-137				
1,1,2,2-Tetrachloroethane	42.5		"	50.0		85.0	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47.0		"	50.0		94.1	58-146				
1,1,2-Trichloroethane	50.4		"	50.0		101	83-123				
1,1-Dichloroethane	45.9		"	50.0		91.8	75-130				
1,1-Dichloroethylene	54.2		"	50.0		108	64-137				
1,1-Dichloropropylene	59.4		"	50.0		119	77-127				
1,2,3-Trichlorobenzene	48.2		"	50.0		96.4	81-140				
1,2,3-Trichloropropane	45.6		"	50.0		91.2	81-126				
1,2,4-Trichlorobenzene	51.3		"	50.0		103	80-141				
1,2-Dibromo-3-chloropropane	43.1		"	50.0		86.3	74-142				
1,2-Dichlorobenzene	47.2		"	50.0		94.4	85-122				
1,2-Dichloroethane	60.2		"	50.0		120	71-133				
1,2-Dichloropropane	49.1		"	50.0		98.1	81-122				
1,3-Dichlorobenzene	46.2		"	50.0		92.3	84-124				
1,3-Dichloropropane	51.2		"	50.0		102	83-123				
1,4-Dichlorobenzene	45.6		"	50.0		91.3	84-124				
2,2-Dichloropropane	61.0		"	50.0		122	67-136				
2-Chloroethylvinyl ether	68.8		"	50.0		138	10-166				
2-Chlorotoluene	44.9		"	50.0		89.9	78-127				
4-Chlorotoluene	44.9		"	50.0		89.8	79-125				
Bromochloromethane	55.1		"	50.0		110	74-129				
Bromodichloromethane	56.6		"	50.0		113	81-124				
Carbon tetrachloride	63.5		"	50.0		127	66-143				
Chlorobenzene	49.8		"	50.0		99.7	86-120				
Chloroethane	41.2		"	50.0		82.4	51-142				
Chloroform	60.6		"	50.0		121	76-131				
Chloromethane	38.1		"	50.0		76.1	49-132				
cis-1,2-Dichloroethylene	58.1		"	50.0		116	74-132				
cis-1,3-Dichloropropylene	55.6		"	50.0		111	81-129				
Dibromochloromethane	49.7		"	50.0		99.5	10-200				
Dichlorodifluoromethane	39.0		"	50.0		77.9	28-158				
Hexachlorobutadiene	50.0		"	50.0		99.9	83-133				
Methylene chloride	43.5		"	50.0		87.0	57-141				
Tetrachloroethylene	48.8		"	50.0		97.7	80-129				
trans-1,2-Dichloroethylene	49.8		"	50.0		99.6	72-132				
trans-1,3-Dichloropropylene	47.3		"	50.0		94.6	78-132				
Trichloroethylene	54.8		"	50.0		110	84-123				
Trichlorofluoromethane	52.0		"	50.0		104	62-140				
Vinyl Chloride	38.0		"	50.0		76.1	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	52.4		"	50.0		105	77-125				
Surrogate: SURR: Toluene-d8	45.0		"	50.0		89.9	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.2		"	50.0		94.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00094 - EPA 5035A											
LCS Dup (BG00094-BSD1)						Prepared & Analyzed: 07/02/2020					
1,1,1,2-Tetrachloroethane	51.2		ug/L	50.0		102	75-129		0.136	30	
1,1,1-Trichloroethane	64.3		"	50.0		129	71-137		0.452	30	
1,1,2,2-Tetrachloroethane	42.2		"	50.0		84.4	79-129		0.708	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.8		"	50.0		108	58-146		13.4	30	
1,1,2-Trichloroethane	49.8		"	50.0		99.6	83-123		1.16	30	
1,1-Dichloroethane	45.7		"	50.0		91.4	75-130		0.393	30	
1,1-Dichloroethylene	54.5		"	50.0		109	64-137		0.405	30	
1,1-Dichloropropylene	59.6		"	50.0		119	77-127		0.370	30	
1,2,3-Trichlorobenzene	47.3		"	50.0		94.5	81-140		1.97	30	
1,2,3-Trichloropropane	44.3		"	50.0		88.6	81-126		2.91	30	
1,2,4-Trichlorobenzene	49.4		"	50.0		98.9	80-141		3.71	30	
1,2-Dibromo-3-chloropropane	43.0		"	50.0		85.9	74-142		0.441	30	
1,2-Dichlorobenzene	46.7		"	50.0		93.3	85-122		1.17	30	
1,2-Dichloroethane	59.9		"	50.0		120	71-133		0.549	30	
1,2-Dichloropropane	48.3		"	50.0		96.7	81-122		1.50	30	
1,3-Dichlorobenzene	45.4		"	50.0		90.8	84-124		1.66	30	
1,3-Dichloropropane	50.0		"	50.0		100	83-123		2.23	30	
1,4-Dichlorobenzene	45.1		"	50.0		90.2	84-124		1.12	30	
2,2-Dichloropropane	60.6		"	50.0		121	67-136		0.757	30	
2-Chloroethylvinyl ether	67.8		"	50.0		136	10-166		1.57	30	
2-Chlorotoluene	44.6		"	50.0		89.2	78-127		0.782	30	
4-Chlorotoluene	44.5		"	50.0		88.9	79-125		0.985	30	
Bromochloromethane	55.0		"	50.0		110	74-129		0.164	30	
Bromodichloromethane	55.9		"	50.0		112	81-124		1.24	30	
Carbon tetrachloride	64.3		"	50.0		129	66-143		1.22	30	
Chlorobenzene	49.4		"	50.0		98.9	86-120		0.826	30	
Chloroethane	41.6		"	50.0		83.1	51-142		0.870	30	
Chloroform	60.4		"	50.0		121	76-131		0.446	30	
Chloromethane	39.0		"	50.0		78.1	49-132		2.57	30	
cis-1,2-Dichloroethylene	57.8		"	50.0		116	74-132		0.501	30	
cis-1,3-Dichloropropylene	54.9		"	50.0		110	81-129		1.36	30	
Dibromochloromethane	49.0		"	50.0		98.0	10-200		1.50	30	
Dichlorodifluoromethane	39.0		"	50.0		78.1	28-158		0.205	30	
Hexachlorobutadiene	48.9		"	50.0		97.8	83-133		2.18	30	
Methylene chloride	42.4		"	50.0		84.9	57-141		2.51	30	
Tetrachloroethylene	48.5		"	50.0		97.1	80-129		0.657	30	
trans-1,2-Dichloroethylene	49.6		"	50.0		99.2	72-132		0.382	30	
trans-1,3-Dichloropropylene	46.9		"	50.0		93.8	78-132		0.849	30	
Trichloroethylene	54.1		"	50.0		108	84-123		1.30	30	
Trichlorofluoromethane	52.0		"	50.0		104	62-140		0.0577	30	
Vinyl Chloride	38.7		"	50.0		77.3	52-130		1.62	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	52.3		"	50.0		105	77-125				
Surrogate: SURR: Toluene-d8	44.9		"	50.0		89.8	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.0		"	50.0		94.0	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00219 - EPA 5035A

Blank (BG00219-BLK1)

Prepared & Analyzed: 07/06/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Chloroethylvinyl ether	ND	0.020	"								
2-Chlorotoluene	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
Tetrachloroethylene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	52.2		ug/L	50.0		104	77-125				
Surrogate: SURR: Toluene-d8	54.3		"	50.0		109	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.1		"	50.0		102	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00219 - EPA 5035A

Blank (BG00219-BLK2)

Prepared & Analyzed: 07/06/2020

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chloroethylvinyl ether	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Methylene chloride	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	53.2		ug/L	50.0		106	77-125				
Surrogate: SURR: Toluene-d8	53.7		"	50.0		107	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00219 - EPA 5035A											
LCS (BG00219-BS1)						Prepared & Analyzed: 07/06/2020					
1,1,1,2-Tetrachloroethane	46.3		ug/L	50.0		92.7	75-129				
1,1,1-Trichloroethane	42.0		"	50.0		84.1	71-137				
1,1,2,2-Tetrachloroethane	51.1		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	43.5		"	50.0		87.0	58-146				
1,1,2-Trichloroethane	47.1		"	50.0		94.2	83-123				
1,1-Dichloroethane	40.5		"	50.0		81.0	75-130				
1,1-Dichloroethylene	43.3		"	50.0		86.6	64-137				
1,1-Dichloropropylene	41.4		"	50.0		82.8	77-127				
1,2,3-Trichlorobenzene	49.6		"	50.0		99.2	81-140				
1,2,3-Trichloropropane	52.0		"	50.0		104	81-126				
1,2,4-Trichlorobenzene	50.4		"	50.0		101	80-141				
1,2-Dibromo-3-chloropropane	46.0		"	50.0		92.1	74-142				
1,2-Dichlorobenzene	51.9		"	50.0		104	85-122				
1,2-Dichloroethane	42.2		"	50.0		84.5	71-133				
1,2-Dichloropropane	45.2		"	50.0		90.5	81-122				
1,3-Dichlorobenzene	50.5		"	50.0		101	84-124				
1,3-Dichloropropane	47.6		"	50.0		95.1	83-123				
1,4-Dichlorobenzene	51.0		"	50.0		102	84-124				
2,2-Dichloropropane	35.8		"	50.0		71.6	67-136				
2-Chloroethylvinyl ether	0.00		"	50.0			10-166	Low Bias			
2-Chlorotoluene	50.2		"	50.0		100	78-127				
4-Chlorotoluene	49.3		"	50.0		98.6	79-125				
Bromochloromethane	41.4		"	50.0		82.9	74-129				
Bromodichloromethane	48.1		"	50.0		96.1	81-124				
Carbon tetrachloride	40.9		"	50.0		81.8	66-143				
Chlorobenzene	48.1		"	50.0		96.3	86-120				
Chloroethane	69.2		"	50.0		138	51-142				
Chloroform	42.5		"	50.0		84.9	76-131				
Chloromethane	49.2		"	50.0		98.3	49-132				
cis-1,2-Dichloroethylene	40.4		"	50.0		80.7	74-132				
cis-1,3-Dichloropropylene	45.6		"	50.0		91.2	81-129				
Dibromochloromethane	48.4		"	50.0		96.8	10-200				
Dichlorodifluoromethane	62.0		"	50.0		124	28-158				
Hexachlorobutadiene	47.4		"	50.0		94.8	83-133				
Methylene chloride	37.5		"	50.0		75.0	57-141				
Tetrachloroethylene	44.4		"	50.0		88.7	80-129				
trans-1,2-Dichloroethylene	43.8		"	50.0		87.7	72-132				
trans-1,3-Dichloropropylene	43.7		"	50.0		87.4	78-132				
Trichloroethylene	47.6		"	50.0		95.1	84-123				
Trichlorofluoromethane	57.9		"	50.0		116	62-140				
Vinyl Chloride	59.4		"	50.0		119	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	50.6		"	50.0		101	77-125				
Surrogate: SURR: Toluene-d8	53.8		"	50.0		108	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.5		"	50.0		99.0	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00219 - EPA 5035A											
LCS Dup (BG00219-BSD1)						Prepared & Analyzed: 07/06/2020					
1,1,1,2-Tetrachloroethane	49.2		ug/L	50.0		98.4	75-129		6.03	30	
1,1,1-Trichloroethane	44.4		"	50.0		88.8	71-137		5.48	30	
1,1,2,2-Tetrachloroethane	52.4		"	50.0		105	79-129		2.55	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45.9		"	50.0		91.8	58-146		5.41	30	
1,1,2-Trichloroethane	49.6		"	50.0		99.1	83-123		5.13	30	
1,1-Dichloroethane	42.6		"	50.0		85.3	75-130		5.15	30	
1,1-Dichloroethylene	45.5		"	50.0		91.1	64-137		4.97	30	
1,1-Dichloropropylene	44.0		"	50.0		87.9	77-127		6.07	30	
1,2,3-Trichlorobenzene	52.1		"	50.0		104	81-140		4.92	30	
1,2,3-Trichloropropane	54.7		"	50.0		109	81-126		5.10	30	
1,2,4-Trichlorobenzene	52.3		"	50.0		105	80-141		3.74	30	
1,2-Dibromo-3-chloropropane	48.9		"	50.0		97.8	74-142		6.01	30	
1,2-Dichlorobenzene	53.8		"	50.0		108	85-122		3.50	30	
1,2-Dichloroethane	44.8		"	50.0		89.7	71-133		5.95	30	
1,2-Dichloropropane	47.5		"	50.0		95.0	81-122		4.90	30	
1,3-Dichlorobenzene	52.5		"	50.0		105	84-124		3.88	30	
1,3-Dichloropropane	50.4		"	50.0		101	83-123		5.86	30	
1,4-Dichlorobenzene	52.1		"	50.0		104	84-124		2.13	30	
2,2-Dichloropropane	37.8		"	50.0		75.7	67-136		5.46	30	
2-Chloroethylvinyl ether	0.00		"	50.0			10-166	Low Bias		30	
2-Chlorotoluene	51.5		"	50.0		103	78-127		2.71	30	
4-Chlorotoluene	50.9		"	50.0		102	79-125		3.17	30	
Bromochloromethane	43.8		"	50.0		87.6	74-129		5.49	30	
Bromodichloromethane	50.1		"	50.0		100	81-124		4.22	30	
Carbon tetrachloride	43.7		"	50.0		87.5	66-143		6.76	30	
Chlorobenzene	50.4		"	50.0		101	86-120		4.57	30	
Chloroethane	73.9		"	50.0		148	51-142	High Bias	6.47	30	
Chloroform	45.1		"	50.0		90.2	76-131		6.03	30	
Chloromethane	52.5		"	50.0		105	49-132		6.57	30	
cis-1,2-Dichloroethylene	43.0		"	50.0		85.9	74-132		6.19	30	
cis-1,3-Dichloropropylene	48.1		"	50.0		96.3	81-129		5.42	30	
Dibromochloromethane	51.4		"	50.0		103	10-200		6.07	30	
Dichlorodifluoromethane	66.6		"	50.0		133	28-158		7.16	30	
Hexachlorobutadiene	50.1		"	50.0		100	83-133		5.46	30	
Methylene chloride	40.1		"	50.0		80.1	57-141		6.65	30	
Tetrachloroethylene	46.4		"	50.0		92.9	80-129		4.63	30	
trans-1,2-Dichloroethylene	46.5		"	50.0		93.1	72-132		5.98	30	
trans-1,3-Dichloropropylene	46.3		"	50.0		92.6	78-132		5.71	30	
Trichloroethylene	50.6		"	50.0		101	84-123		6.15	30	
Trichlorofluoromethane	61.6		"	50.0		123	62-140		6.13	30	
Vinyl Chloride	63.4		"	50.0		127	52-130		6.66	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	51.0		"	50.0		102	77-125				
Surrogate: SURR: Toluene-d8	54.0		"	50.0		108	85-120				
Surrogate: SURR: p-Bromofluorobenzene	48.5		"	50.0		97.0	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00280 - EPA 5030B

Blank (BG00280-BLK1)

Prepared & Analyzed: 07/07/2020

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Tetrachloroethylene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	70-130				
Surrogate: SURR: Toluene-d8	9.97		"	10.0		99.7	70-130				
Surrogate: SURR: p-Bromofluorobenzene	11.2		"	10.0		112	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00280 - EPA 5030B											
LCS (BG00280-BS1)						Prepared & Analyzed: 07/07/2020					
1,1,1,2-Tetrachloroethane	9.53		ug/L	10.0		95.3	82-126			30	
1,1,1-Trichloroethane	11.1		"	10.0		111	70-130			20	
1,1,2,2-Tetrachloroethane	9.07		"	10.0		90.7	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	70-130			20	
1,1,2-Trichloroethane	8.69		"	10.0		86.9	70-130			20	
1,1-Dichloroethane	10.6		"	10.0		106	70-130			20	
1,1-Dichloroethylene	11.9		"	10.0		119	70-130			20	
1,1-Dichloropropylene	11.1		"	10.0		111	83-133			30	
1,2,3-Trichlorobenzene	7.96		"	10.0		79.6	70-130			20	
1,2,3-Trichloropropane	9.71		"	10.0		97.1	77-128			30	
1,2,4-Trichlorobenzene	8.56		"	10.0		85.6	70-130			20	
1,2-Dibromo-3-chloropropane	9.20		"	10.0		92.0	40-160			20	
1,2-Dichlorobenzene	9.35		"	10.0		93.5	70-130			20	
1,2-Dichloroethane	10.4		"	10.0		104	70-130			20	
1,2-Dichloropropane	9.83		"	10.0		98.3	70-130			20	
1,3-Dichlorobenzene	9.50		"	10.0		95.0	70-130			20	
1,3-Dichloropropane	9.16		"	10.0		91.6	81-125			30	
1,4-Dichlorobenzene	9.45		"	10.0		94.5	70-130			20	
2,2-Dichloropropane	11.2		"	10.0		112	56-150			30	
2-Chlorotoluene	9.93		"	10.0		99.3	79-130			30	
4-Chlorotoluene	9.75		"	10.0		97.5	79-128			30	
Bromochloromethane	10.5		"	10.0		105	70-130			20	
Bromodichloromethane	9.96		"	10.0		99.6	70-130			20	
Carbon tetrachloride	10.8		"	10.0		108	70-130			20	
Chlorobenzene	9.64		"	10.0		96.4	70-130			20	
Chloroethane	14.1		"	10.0		141	40-160			20	
Chloroform	10.4		"	10.0		104	70-130			20	
Chloromethane	11.1		"	10.0		111	40-160			20	
cis-1,2-Dichloroethylene	10.9		"	10.0		109	70-130			20	
cis-1,3-Dichloropropylene	9.67		"	10.0		96.7	70-130			20	
Dibromochloromethane	9.05		"	10.0		90.5	70-130			20	
Dichlorodifluoromethane	18.5		"	10.0		185	40-160	High Bias		20	
Hexachlorobutadiene	9.48		"	10.0		94.8	67-146			30	
Methylene chloride	10.9		"	10.0		109	70-130			20	
Tetrachloroethylene	9.23		"	10.0		92.3	70-130			20	
trans-1,2-Dichloroethylene	11.5		"	10.0		115	70-130			20	
trans-1,3-Dichloropropylene	9.61		"	10.0		96.1	70-130			20	
Trichloroethylene	10.4		"	10.0		104	70-130			20	
Trichlorofluoromethane	12.1		"	10.0		121	40-160			20	
Vinyl Chloride	12.3		"	10.0		123	70-130			20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.1		"	10.0		101	70-130				
Surrogate: SURR: Toluene-d8	10.0		"	10.0		100	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.4		"	10.0		104	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG00280 - EPA 5030B											
LCS Dup (BG00280-BSD1)						Prepared & Analyzed: 07/07/2020					
1,1,1,2-Tetrachloroethane	9.41		ug/L	10.0		94.1	82-126		1.27	30	
1,1,1-Trichloroethane	10.4		"	10.0		104	70-130		5.67	20	
1,1,2,2-Tetrachloroethane	9.38		"	10.0		93.8	70-130		3.36	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.39		"	10.0		83.9	70-130		30.3	20	Non-dir.
1,1,2-Trichloroethane	9.16		"	10.0		91.6	70-130		5.27	20	
1,1-Dichloroethane	10.1		"	10.0		101	70-130		4.84	20	
1,1-Dichloroethylene	9.77		"	10.0		97.7	70-130		19.7	20	
1,1-Dichloropropylene	10.5		"	10.0		105	83-133		5.63	30	
1,2,3-Trichlorobenzene	8.85		"	10.0		88.5	70-130		10.6	20	
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128		2.74	30	
1,2,4-Trichlorobenzene	9.17		"	10.0		91.7	70-130		6.88	20	
1,2-Dibromo-3-chloropropane	10.6		"	10.0		106	40-160		14.3	20	
1,2-Dichlorobenzene	9.16		"	10.0		91.6	70-130		2.05	20	
1,2-Dichloroethane	11.0		"	10.0		110	70-130		5.59	20	
1,2-Dichloropropane	9.43		"	10.0		94.3	70-130		4.15	20	
1,3-Dichlorobenzene	9.06		"	10.0		90.6	70-130		4.74	20	
1,3-Dichloropropane	9.66		"	10.0		96.6	81-125		5.31	30	
1,4-Dichlorobenzene	9.15		"	10.0		91.5	70-130		3.23	20	
2,2-Dichloropropane	10.5		"	10.0		105	56-150		6.90	30	
2-Chlorotoluene	9.00		"	10.0		90.0	79-130		9.83	30	
4-Chlorotoluene	9.01		"	10.0		90.1	79-128		7.89	30	
Bromochloromethane	11.2		"	10.0		112	70-130		6.43	20	
Bromodichloromethane	9.75		"	10.0		97.5	70-130		2.13	20	
Carbon tetrachloride	10.2		"	10.0		102	70-130		6.08	20	
Chlorobenzene	9.13		"	10.0		91.3	70-130		5.43	20	
Chloroethane	13.6		"	10.0		136	40-160		4.19	20	
Chloroform	10.4		"	10.0		104	70-130		0.386	20	
Chloromethane	10.5		"	10.0		105	40-160		5.46	20	
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130		4.50	20	
cis-1,3-Dichloropropylene	9.63		"	10.0		96.3	70-130		0.415	20	
Dibromochloromethane	9.40		"	10.0		94.0	70-130		3.79	20	
Dichlorodifluoromethane	17.5		"	10.0		175	40-160	High Bias	5.22	20	
Hexachlorobutadiene	9.37		"	10.0		93.7	67-146		1.17	30	
Methylene chloride	11.5		"	10.0		115	70-130		5.64	20	
Tetrachloroethylene	8.31		"	10.0		83.1	70-130		10.5	20	
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130		6.56	20	
trans-1,3-Dichloropropylene	9.64		"	10.0		96.4	70-130		0.312	20	
Trichloroethylene	9.38		"	10.0		93.8	70-130		10.5	20	
Trichlorofluoromethane	11.6		"	10.0		116	40-160		4.12	20	
Vinyl Chloride	11.2		"	10.0		112	70-130		9.52	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.8		"	10.0		108	70-130				
Surrogate: SURR: Toluene-d8	9.55		"	10.0		95.5	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	70-130				



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00115 - EPA 5030B/1311

Blank (BG00115-BLK1)

Prepared & Analyzed: 07/02/2020

Total Petroleum Hydrocarbons-GRO	0.263	0.160	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	226		ug/L	200		113	70-130				

Reference (BG00115-SRM1)

Prepared & Analyzed: 07/02/2020

Total Petroleum Hydrocarbons-GRO	562	4.00	mg/kg wet	237		237	24.9-274				
Surrogate: SURR: p-Bromofluorobenzene	319		ug/L	200		160	70-130				

Batch BG00263 - EPA 3550C

Blank (BG00263-BLK1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Total Petroleum Hydrocarbons-DRO	ND	9.62	mg/kg wet								
Surrogate: Triacontane	6.67		"	9.62		69.4	30-150				

LCS (BG00263-BS1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Total Petroleum Hydrocarbons-DRO	143	9.62	mg/kg wet	165		86.2	40-140				
Surrogate: Triacontane	7.58		"	9.62		78.8	30-150				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G0022-01	IMW-01 14-15	40mL Vial with Stir Bar-Cool 4° C
20G0022-02	IMW-02 12-13	40mL Vial with Stir Bar-Cool 4° C
20G0022-03	IMW-05 11-12	40mL Vial with Stir Bar-Cool 4° C
20G0022-04	IMW-05 13-14	40mL Vial with Stir Bar-Cool 4° C
20G0022-05	IMW-06 11-12	40mL Vial with Stir Bar-Cool 4° C
20G0022-06	IMW-06 13-15	40mL Vial with Stir Bar-Cool 4° C
20G0022-07	DUP-20200630	40mL Vial with Stir Bar-Cool 4° C
20G0022-08	IMW-01 14-15	8 oz. WM Clear Glass Cool to 4° C
20G0022-09	TB-20200630	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

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

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



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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK
ANALYTICAL LABORATORIES LTD

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

Field Chain-of-Custody Record

Page 1 of 1

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

York Project No. 20G0022

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Gallagher Bassett Company: Technical Services Address: 22 IBM Road Poughkeepsie, NY Phone.: (845) 452-1658 Contact: Scott Spitzer E-mail:		SAME Name: Scott Spitzer Company: Address: E-mail:		SAME Name: Brenda Company: Address: E-mail:		LM97145 Purchase Order # LM97145 Samples from CT_NY_NJ__		RUSH-Same Day RUSH-Next Day RUSH-Two Day RUSH-Three Day RUSH-Four Day Standard (5-7day)		Summary Report QA Report CT RCP CT RCP DQA/DUE Pkg NY ASP A Package NY ASP B Package NUDEP Reduced Deliv Excel NYSEDEC EQUIS NUDEP SRP HazSite EQUIS GIS/KEY (std) YORK Regulatory Comp Excel compared to: OTHER:	
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved. Samples Collected/Authorized By (Signature) <u>Scott Spitzer</u> Name (printed)											
Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description	OTHER:						
IMW-02 12-13	6/30/2020	Soil	VOCs, chlorinated (8260)	1 X VOA kit							
IMW-05 11-12											
IMW-05 13-14											
IMW-06 11-12											
IMW-06 13-15											
DUP-20200630											
IMW-01 14-15											
TB-20200630											
Comments: VOA kit: 4 X 40ml vials, laboratory supplied TPH - DRO + GRO VOC chlorinated 8260 2X 8026 2X 40 ML											
Preservation (check all applicable): 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO₃ _____ H₂SO₄ _____ NaOH _____ Special Instructions: Field Filtered ☐ Lab to Filter ☐											
Samples Relinquished By: <u>Chic</u> Date/Time: <u>7-1-20 12:15</u> Samples Relinquished By: <u>Chic</u> Date/Time: <u>7-1-20 14:22</u> Samples Received By: <u>Chic</u> Date/Time: <u>7-1-20 12:15</u> Samples Received in LAB by: <u>Chic</u> Date/Time: <u>7-1-20 14:22</u> Temperature on Receipt: <u>2.1</u> °C											



Technical Report

prepared for:

Gallagher Bassett - Poughkeepsie, NY

22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Report Date: 08/05/2020

Client Project ID: LM97145

York Project (SDG) No.: 20G1017

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/05/2020
Client Project ID: LM97145
York Project (SDG) No.: 20G1017

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 28, 2020 and listed below. The project was identified as your project: **LM97145**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20G1017-01	IMW-1 20200727	Water	07/27/2020	07/28/2020
20G1017-02	IMW-2 20200727	Water	07/27/2020	07/28/2020
20G1017-03	IMW-5 20200727	Water	07/27/2020	07/28/2020
20G1017-04	IMW-6 20200727	Water	07/27/2020	07/28/2020
20G1017-05	EMW-1 20200727	Water	07/27/2020	07/28/2020
20G1017-06	EMW-2 20200727	Water	07/27/2020	07/28/2020
20G1017-07	DUP-20200727	Water	07/27/2020	07/28/2020
20G1017-08	TB-20200727	Water	07/27/2020	07/28/2020

General Notes for York Project (SDG) No.: 20G1017

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 08/05/2020





Sample Information

Client Sample ID: IMW-1 20200727

York Sample ID: 20G1017-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G1017

LM97145

Water

July 27, 2020 12:00 am

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
71-55-6	1,1,1-Trichloroethane	0.820		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 16:56	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP



Sample Information

Client Sample ID: IMW-1 20200727

York Sample ID: 20G1017-01

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-00-3	Chloroethane	14.0		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
156-59-2	cis-1,2-Dichloroethylene	558		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
127-18-4	Tetrachloroethylene	741		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:03	TMP
156-60-5	trans-1,2-Dichloroethylene	5.10		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
79-01-6	Trichloroethylene	203		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:03	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
75-01-4	Vinyl Chloride	30.1	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 16:56	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	94.8 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	112 %	70-130								



Sample Information

Client Sample ID: IMW-2 20200727

York Sample ID: 20G1017-02

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 17:21	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP



Sample Information

Client Sample ID: IMW-2 20200727

York Sample ID: 20G1017-02

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
156-59-2	cis-1,2-Dichloroethylene	120		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
127-18-4	Tetrachloroethylene	332		ug/L	2.00	5.00	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:29	TMP
156-60-5	trans-1,2-Dichloroethylene	1.04		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
79-01-6	Trichloroethylene	134		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:21	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	95.1 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	110 %	70-130								



Sample Information

Client Sample ID: IMW-5 20200727

York Sample ID: 20G1017-03

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
71-55-6	1,1,1-Trichloroethane	0.670		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 17:47	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP



Sample Information

Client Sample ID: IMW-5 20200727

York Sample ID: 20G1017-03

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
156-59-2	cis-1,2-Dichloroethylene	354		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:54	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
127-18-4	Tetrachloroethylene	1130		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:54	TMP
156-60-5	trans-1,2-Dichloroethylene	3.54		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
79-01-6	Trichloroethylene	175		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 17:54	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
75-01-4	Vinyl Chloride	100	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 17:47	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	94.7 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	109 %	70-130								



Sample Information

Client Sample ID: IMW-6 20200727

York Sample ID: 20G1017-04

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
71-55-6	1,1,1-Trichloroethane	0.840		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 18:12	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP



Sample Information

Client Sample ID: IMW-6 20200727

York Sample ID: 20G1017-04

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
156-59-2	cis-1,2-Dichloroethylene	755		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:19	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
127-18-4	Tetrachloroethylene	936		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:19	TMP
156-60-5	trans-1,2-Dichloroethylene	8.04		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
79-01-6	Trichloroethylene	263		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:19	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
75-01-4	Vinyl Chloride	65.5	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:12	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.0 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	112 %	70-130								



Sample Information

Client Sample ID: EMW-1 20200727

York Sample ID: 20G1017-05

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 21:35	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP



Sample Information

Client Sample ID: EMW-1 20200727

York Sample ID: 20G1017-05

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
156-59-2	cis-1,2-Dichloroethylene	576		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:45	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
127-18-4	Tetrachloroethylene	1240		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:45	TMP
156-60-5	trans-1,2-Dichloroethylene	6.29		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
79-01-6	Trichloroethylene	352		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 18:45	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
75-01-4	Vinyl Chloride	113	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 21:35	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	98.7 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	112 %	70-130								



Sample Information

Client Sample ID: EMW-2 20200727

York Sample ID: 20G1017-06

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 18:38	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP



Sample Information

Client Sample ID: EMW-2 20200727

York Sample ID: 20G1017-06

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
156-59-2	cis-1,2-Dichloroethylene	1930		ug/L	10.0	25.0	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 19:10	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
127-18-4	Tetrachloroethylene	786		ug/L	10.0	25.0	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 19:10	TMP
156-60-5	trans-1,2-Dichloroethylene	40.8		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
79-01-6	Trichloroethylene	258		ug/L	10.0	25.0	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 19:10	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 18:38	TMP
75-01-4	Vinyl Chloride	499	QL-02	ug/L	10.0	25.0	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 19:10	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.8 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	114 %	70-130								



Sample Information

Client Sample ID: DUP-20200727

York Sample ID: 20G1017-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G1017

LM97145

Water

July 27, 2020 12:00 am

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 19:03	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP



Sample Information

Client Sample ID: DUP-20200727

York Sample ID: 20G1017-07

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
156-59-2	cis-1,2-Dichloroethylene	117		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
127-18-4	Tetrachloroethylene	365		ug/L	4.00	10.0	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/31/2020 19:35	TMP
156-60-5	trans-1,2-Dichloroethylene	1.03		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
79-01-6	Trichloroethylene	132		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
75-01-4	Vinyl Chloride	0.420	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 19:03	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	94.9 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	109 %	70-130								



Sample Information

Client Sample ID: TB-20200727

York Sample ID: 20G1017-08

York Project (SDG) No.
20G1017

Client Project ID
LM97145

Matrix
Water

Collection Date/Time
July 27, 2020 12:00 am

Date Received
07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/29/2020 06:41	07/30/2020 14:24	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP



Sample Information

Client Sample ID: TB-20200727

York Sample ID: 20G1017-08

York Project (SDG) No.

20G1017

Client Project ID

LM97145

Matrix

Water

Collection Date/Time

July 27, 2020 12:00 am

Date Received

07/28/2020

Volatile Organics, 8260 Chlorinated

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/29/2020 06:41	07/30/2020 14:24	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	107 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	93.6 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	107 %	70-130								



Analytical Batch Summary

Batch ID: BH00047

Preparation Method: EPA 5030B

Prepared By: TMP

YORK Sample ID	Client Sample ID	Preparation Date
20G1017-01	IMW-1 20200727	07/29/20
20G1017-02	IMW-2 20200727	07/29/20
20G1017-03	IMW-5 20200727	07/29/20
20G1017-04	IMW-6 20200727	07/29/20
20G1017-05	EMW-1 20200727	07/29/20
20G1017-06	EMW-2 20200727	07/29/20
20G1017-07	DUP-20200727	07/29/20
20G1017-08	TB-20200727	07/29/20
BH00047-BLK1	Blank	07/30/20
BH00047-BS1	LCS	07/30/20
BH00047-BSD1	LCS Dup	07/30/20
BH00047-MS1	Matrix Spike	07/30/20
BH00047-MSD1	Matrix Spike Dup	07/30/20

Batch ID: BH00132

Preparation Method: EPA 5030B

Prepared By: TMP

YORK Sample ID	Client Sample ID	Preparation Date
20G1017-01RE1	IMW-1 20200727	07/29/20
20G1017-02RE1	IMW-2 20200727	07/29/20
20G1017-03RE1	IMW-5 20200727	07/29/20
20G1017-04RE1	IMW-6 20200727	07/29/20
20G1017-05RE1	EMW-1 20200727	07/29/20
20G1017-06RE1	EMW-2 20200727	07/29/20
20G1017-07RE1	DUP-20200727	07/29/20
BH00132-BLK1	Blank	07/31/20
BH00132-BS1	LCS	07/31/20
BH00132-BSD1	LCS Dup	07/31/20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00047 - EPA 5030B											
Blank (BH00047-BLK1)						Prepared & Analyzed: 07/30/2020					
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Tetrachloroethylene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.7		"	10.0		107	70-130				
Surrogate: SURR: Toluene-d8	9.42		"	10.0		94.2	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00047 - EPA 5030B											
LCS (BH00047-BS1)						Prepared & Analyzed: 07/30/2020					
1,1,1,2-Tetrachloroethane	9.20		ug/L	10.0		92.0	82-126			30	
1,1,1-Trichloroethane	10.2		"	10.0		102	70-130			20	
1,1,2,2-Tetrachloroethane	8.70		"	10.0		87.0	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7		"	10.0		117	70-130			20	
1,1,2-Trichloroethane	8.58		"	10.0		85.8	70-130			20	
1,1-Dichloroethane	10.2		"	10.0		102	70-130			20	
1,1-Dichloroethylene	11.4		"	10.0		114	70-130			20	
1,1-Dichloropropylene	9.93		"	10.0		99.3	83-133			30	
1,2,3-Trichlorobenzene	4.87		"	10.0		48.7	70-130	Low Bias		20	
1,2,3-Trichloropropane	9.30		"	10.0		93.0	77-128			30	
1,2,4-Trichlorobenzene	6.54		"	10.0		65.4	70-130	Low Bias		20	
1,2-Dibromo-3-chloropropane	6.46		"	10.0		64.6	40-160			20	
1,2-Dichlorobenzene	9.23		"	10.0		92.3	70-130			20	
1,2-Dichloroethane	10.4		"	10.0		104	70-130			20	
1,2-Dichloropropane	8.70		"	10.0		87.0	70-130			20	
1,3-Dichlorobenzene	9.73		"	10.0		97.3	70-130			20	
1,3-Dichloropropane	8.65		"	10.0		86.5	81-125			30	
1,4-Dichlorobenzene	9.81		"	10.0		98.1	70-130			20	
2,2-Dichloropropane	15.1		"	10.0		151	56-150	High Bias		30	
2-Chlorotoluene	9.85		"	10.0		98.5	79-130			30	
4-Chlorotoluene	9.77		"	10.0		97.7	79-128			30	
Bromochloromethane	10.4		"	10.0		104	70-130			20	
Bromodichloromethane	8.70		"	10.0		87.0	70-130			20	
Carbon tetrachloride	9.52		"	10.0		95.2	70-130			20	
Chlorobenzene	9.40		"	10.0		94.0	70-130			20	
Chloroethane	11.8		"	10.0		118	40-160			20	
Chloroform	10.4		"	10.0		104	70-130			20	
Chloromethane	13.0		"	10.0		130	40-160			20	
cis-1,2-Dichloroethylene	10.9		"	10.0		109	70-130			20	
cis-1,3-Dichloropropylene	8.76		"	10.0		87.6	70-130			20	
Dibromochloromethane	8.37		"	10.0		83.7	70-130			20	
Dichlorodifluoromethane	18.8		"	10.0		188	40-160	High Bias		20	
Hexachlorobutadiene	8.10		"	10.0		81.0	67-146			30	
Methylene chloride	10.6		"	10.0		106	70-130			20	
Tetrachloroethylene	8.80		"	10.0		88.0	70-130			20	
trans-1,2-Dichloroethylene	11.1		"	10.0		111	70-130			20	
trans-1,3-Dichloropropylene	8.33		"	10.0		83.3	70-130			20	
Trichloroethylene	9.04		"	10.0		90.4	70-130			20	
Trichlorofluoromethane	13.0		"	10.0		130	40-160			20	
Vinyl Chloride	13.6		"	10.0		136	70-130	High Bias		20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	70-130				
Surrogate: SURR: Toluene-d8	9.31		"	10.0		93.1	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.8		"	10.0		108	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00047 - EPA 5030B											
LCS Dup (BH00047-BSD1)						Prepared & Analyzed: 07/30/2020					
1,1,1,2-Tetrachloroethane	8.98		ug/L	10.0		89.8	82-126		2.42	30	
1,1,1-Trichloroethane	9.49		"	10.0		94.9	70-130		7.31	20	
1,1,2,2-Tetrachloroethane	8.70		"	10.0		87.0	70-130		0.00	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0		"	10.0		100	70-130		15.4	20	
1,1,2-Trichloroethane	8.46		"	10.0		84.6	70-130		1.41	20	
1,1-Dichloroethane	9.69		"	10.0		96.9	70-130		5.23	20	
1,1-Dichloroethylene	10.5		"	10.0		105	70-130		9.04	20	
1,1-Dichloropropylene	9.29		"	10.0		92.9	83-133		6.66	30	
1,2,3-Trichlorobenzene	4.62		"	10.0		46.2	70-130	Low Bias	5.27	20	
1,2,3-Trichloropropane	9.39		"	10.0		93.9	77-128		0.963	30	
1,2,4-Trichlorobenzene	6.43		"	10.0		64.3	70-130	Low Bias	1.70	20	
1,2-Dibromo-3-chloropropane	7.69		"	10.0		76.9	40-160		17.4	20	
1,2-Dichlorobenzene	8.93		"	10.0		89.3	70-130		3.30	20	
1,2-Dichloroethane	10.3		"	10.0		103	70-130		0.774	20	
1,2-Dichloropropane	8.31		"	10.0		83.1	70-130		4.59	20	
1,3-Dichlorobenzene	9.27		"	10.0		92.7	70-130		4.84	20	
1,3-Dichloropropane	8.67		"	10.0		86.7	81-125		0.231	30	
1,4-Dichlorobenzene	9.48		"	10.0		94.8	70-130		3.42	20	
2,2-Dichloropropane	14.0		"	10.0		140	56-150		7.98	30	
2-Chlorotoluene	9.30		"	10.0		93.0	79-130		5.74	30	
4-Chlorotoluene	9.12		"	10.0		91.2	79-128		6.88	30	
Bromochloromethane	10.4		"	10.0		104	70-130		0.578	20	
Bromodichloromethane	8.52		"	10.0		85.2	70-130		2.09	20	
Carbon tetrachloride	8.63		"	10.0		86.3	70-130		9.81	20	
Chlorobenzene	9.09		"	10.0		90.9	70-130		3.35	20	
Chloroethane	10.9		"	10.0		109	40-160		8.18	20	
Chloroform	9.85		"	10.0		98.5	70-130		5.05	20	
Chloromethane	11.9		"	10.0		119	40-160		8.61	20	
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130		4.98	20	
cis-1,3-Dichloropropylene	8.58		"	10.0		85.8	70-130		2.08	20	
Dibromochloromethane	8.43		"	10.0		84.3	70-130		0.714	20	
Dichlorodifluoromethane	16.3		"	10.0		163	40-160	High Bias	14.2	20	
Hexachlorobutadiene	8.16		"	10.0		81.6	67-146		0.738	30	
Methylene chloride	10.1		"	10.0		101	70-130		5.03	20	
Tetrachloroethylene	8.37		"	10.0		83.7	70-130		5.01	20	
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130		6.33	20	
trans-1,3-Dichloropropylene	8.31		"	10.0		83.1	70-130		0.240	20	
Trichloroethylene	8.53		"	10.0		85.3	70-130		5.81	20	
Trichlorofluoromethane	11.5		"	10.0		115	40-160		11.9	20	
Vinyl Chloride	12.5		"	10.0		125	70-130		8.60	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.9		"	10.0		109	70-130				
Surrogate: SURR: Toluene-d8	9.34		"	10.0		93.4	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.6		"	10.0		106	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00047 - EPA 5030B											
Matrix Spike (BH00047-MS1)	*Source sample: 20G1017-05 (EMW-1 20200727)						Prepared & Analyzed: 07/30/2020				
1,1,1,2-Tetrachloroethane	9.36		ug/L	10.0	0.00	93.6	45-161			30	
1,1,1-Trichloroethane	11.8		"	10.0	0.00	118	70-130			20	
1,1,2,2-Tetrachloroethane	9.12		"	10.0	0.00	91.2	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0	0.00	104	70-130			20	
1,1,2-Trichloroethane	15.8		"	10.0	0.00	158	70-130	High Bias		20	
1,1-Dichloroethane	10.6		"	10.0	0.00	106	70-130			20	
1,1-Dichloroethylene	15.4		"	10.0	0.00	154	70-130	High Bias		20	
1,1-Dichloropropylene	10.2		"	10.0	0.00	102	82-134			30	
1,2,3-Trichlorobenzene	3.68		"	10.0	0.00	36.8	70-130	Low Bias		20	
1,2,3-Trichloropropane	9.69		"	10.0	0.00	96.9	74-127			30	
1,2,4-Trichlorobenzene	4.86		"	10.0	0.00	48.6	70-130	Low Bias		20	
1,2-Dibromo-3-chloropropane	7.94		"	10.0	0.00	79.4	40-160			20	
1,2-Dichlorobenzene	8.67		"	10.0	0.00	86.7	70-130			20	
1,2-Dichloroethane	9.94		"	10.0	0.00	99.4	70-130			20	
1,2-Dichloropropane	9.03		"	10.0	0.00	90.3	70-130			20	
1,3-Dichlorobenzene	8.57		"	10.0	0.00	85.7	70-130			20	
1,3-Dichloropropane	8.59		"	10.0	0.00	85.9	77-119			30	
1,4-Dichlorobenzene	8.65		"	10.0	0.00	86.5	70-130			20	
2,2-Dichloropropane	15.2		"	10.0	0.00	152	10-160			30	
2-Chlorotoluene	9.31		"	10.0	0.00	93.1	70-126			30	
4-Chlorotoluene	9.31		"	10.0	0.00	93.1	69-124			30	
Bromochloromethane	9.82		"	10.0	0.00	98.2	70-130			20	
Bromodichloromethane	9.09		"	10.0	0.00	90.9	70-130			20	
Carbon tetrachloride	10.4		"	10.0	0.00	104	70-130			20	
Chlorobenzene	9.29		"	10.0	0.00	92.9	70-130			20	
Chloroethane	12.6		"	10.0	0.00	126	40-160			20	
Chloroform	10.5		"	10.0	0.00	105	70-130			20	
Chloromethane	13.0		"	10.0	0.00	130	40-160			20	
cis-1,2-Dichloroethylene	710		"	10.0	655	549	70-130	High Bias		20	
cis-1,3-Dichloropropylene	8.68		"	10.0	0.00	86.8	70-130			20	
Dibromochloromethane	8.83		"	10.0	0.00	88.3	70-130			20	
Dichlorodifluoromethane	17.7		"	10.0	0.00	177	40-160	High Bias		20	
Hexachlorobutadiene	5.95		"	10.0	0.00	59.5	34-166			30	
Methylene chloride	10.4		"	10.0	0.00	104	70-130			20	
Tetrachloroethylene	1290		"	10.0	1260	259	70-130	High Bias		20	
trans-1,2-Dichloroethylene	18.1		"	10.0	6.29	118	70-130			20	
trans-1,3-Dichloropropylene	8.20		"	10.0	0.00	82.0	70-130			20	
Trichloroethylene	496		"	10.0	447	496	70-130	High Bias		20	
Trichlorofluoromethane	13.6		"	10.0	0.00	136	40-160			20	
Vinyl Chloride	125		"	10.0	113	116	70-130			20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	70-130				
Surrogate: SURR: Toluene-d8	9.88		"	10.0		98.8	70-130				
Surrogate: SURR: p-Bromofluorobenzene	11.0		"	10.0		110	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00047 - EPA 5030B											
Matrix Spike Dup (BH00047-MSD1)	*Source sample: 20G1017-05 (EMW-1 20200727)					Prepared & Analyzed: 07/30/2020					
1,1,1,2-Tetrachloroethane	9.73		ug/L	10.0	0.00	97.3	45-161		3.88	30	
1,1,1-Trichloroethane	12.3		"	10.0	0.00	123	70-130		4.24	20	
1,1,2,2-Tetrachloroethane	9.41		"	10.0	0.00	94.1	70-130		3.13	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5		"	10.0	0.00	115	70-130		9.31	20	
1,1,2-Trichloroethane	15.6		"	10.0	0.00	156	70-130	High Bias	1.34	20	
1,1-Dichloroethane	11.0		"	10.0	0.00	110	70-130		4.07	20	
1,1-Dichloroethylene	16.4		"	10.0	0.00	164	70-130	High Bias	6.16	20	
1,1-Dichloropropylene	10.9		"	10.0	0.00	109	82-134		7.12	30	
1,2,3-Trichlorobenzene	4.72		"	10.0	0.00	47.2	70-130	Low Bias	24.8	20	Non-dir.
1,2,3-Trichloropropane	10.2		"	10.0	0.00	102	74-127		5.32	30	
1,2,4-Trichlorobenzene	5.69		"	10.0	0.00	56.9	70-130	Low Bias	15.7	20	
1,2-Dibromo-3-chloropropane	8.24		"	10.0	0.00	82.4	40-160		3.71	20	
1,2-Dichlorobenzene	9.18		"	10.0	0.00	91.8	70-130		5.71	20	
1,2-Dichloroethane	10.6		"	10.0	0.00	106	70-130		6.14	20	
1,2-Dichloropropane	9.41		"	10.0	0.00	94.1	70-130		4.12	20	
1,3-Dichlorobenzene	9.18		"	10.0	0.00	91.8	70-130		6.87	20	
1,3-Dichloropropane	8.91		"	10.0	0.00	89.1	77-119		3.66	30	
1,4-Dichlorobenzene	9.43		"	10.0	0.00	94.3	70-130		8.63	20	
2,2-Dichloropropane	15.6		"	10.0	0.00	156	10-160		2.46	30	
2-Chlorotoluene	11.2		"	10.0	0.00	112	70-126		18.1	30	
4-Chlorotoluene	9.97		"	10.0	0.00	99.7	69-124		6.85	30	
Bromochloromethane	10.5		"	10.0	0.00	105	70-130		6.31	20	
Bromodichloromethane	9.52		"	10.0	0.00	95.2	70-130		4.62	20	
Carbon tetrachloride	10.9		"	10.0	0.00	109	70-130		4.78	20	
Chlorobenzene	9.71		"	10.0	0.00	97.1	70-130		4.42	20	
Chloroethane	13.3		"	10.0	0.00	133	40-160		5.58	20	
Chloroform	11.1		"	10.0	0.00	111	70-130		5.09	20	
Chloromethane	13.5		"	10.0	0.00	135	40-160		3.55	20	
cis-1,2-Dichloroethylene	699		"	10.0	655	442	70-130	High Bias	1.51	20	
cis-1,3-Dichloropropylene	9.00		"	10.0	0.00	90.0	70-130		3.62	20	
Dibromochloromethane	9.32		"	10.0	0.00	93.2	70-130		5.40	20	
Dichlorodifluoromethane	19.6		"	10.0	0.00	196	40-160	High Bias	10.4	20	
Hexachlorobutadiene	6.37		"	10.0	0.00	63.7	34-166		6.82	30	
Methylene chloride	11.0		"	10.0	0.00	110	70-130		5.33	20	
Tetrachloroethylene	1310		"	10.0	1260	464	70-130	High Bias	1.58	20	
trans-1,2-Dichloroethylene	18.6		"	10.0	6.29	123	70-130		2.68	20	
trans-1,3-Dichloropropylene	8.58		"	10.0	0.00	85.8	70-130		4.53	20	
Trichloroethylene	479		"	10.0	447	323	70-130	High Bias	3.56	20	
Trichlorofluoromethane	14.9		"	10.0	0.00	149	40-160		9.28	20	
Vinyl Chloride	140		"	10.0	113	269	70-130	High Bias	11.6	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURR: Toluene-d8	9.83		"	10.0		98.3	70-130				
Surrogate: SURR: p-Bromofluorobenzene	11.2		"	10.0		112	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH00132 - EPA 5030B

Blank (BH00132-BLK1)

Prepared & Analyzed: 07/31/2020

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Tetrachloroethylene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.5		"	10.0		105	70-130				
Surrogate: SURR: Toluene-d8	9.45		"	10.0		94.5	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.9		"	10.0		109	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00132 - EPA 5030B											
LCS (BH00132-BS1)						Prepared & Analyzed: 07/31/2020					
1,1,1,2-Tetrachloroethane	9.94		ug/L	10.0		99.4	82-126			30	
1,1,1-Trichloroethane	11.8		"	10.0		118	70-130			20	
1,1,2,2-Tetrachloroethane	8.95		"	10.0		89.5	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.7		"	10.0		127	70-130			20	
1,1,2-Trichloroethane	8.79		"	10.0		87.9	70-130			20	
1,1-Dichloroethane	11.3		"	10.0		113	70-130			20	
1,1-Dichloroethylene	13.0		"	10.0		130	70-130			20	
1,1-Dichloropropylene	11.6		"	10.0		116	83-133			30	
1,2,3-Trichlorobenzene	5.11		"	10.0		51.1	70-130	Low Bias		20	
1,2,3-Trichloropropane	9.69		"	10.0		96.9	77-128			30	
1,2,4-Trichlorobenzene	6.93		"	10.0		69.3	70-130	Low Bias		20	
1,2-Dibromo-3-chloropropane	7.84		"	10.0		78.4	40-160			20	
1,2-Dichlorobenzene	9.91		"	10.0		99.1	70-130			20	
1,2-Dichloroethane	10.7		"	10.0		107	70-130			20	
1,2-Dichloropropane	9.41		"	10.0		94.1	70-130			20	
1,3-Dichlorobenzene	10.5		"	10.0		105	70-130			20	
1,3-Dichloropropane	8.99		"	10.0		89.9	81-125			30	
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130			20	
2,2-Dichloropropane	16.6		"	10.0		166	56-150	High Bias		30	
2-Chlorotoluene	11.0		"	10.0		110	79-130			30	
4-Chlorotoluene	10.7		"	10.0		107	79-128			30	
Bromochloromethane	11.0		"	10.0		110	70-130			20	
Bromodichloromethane	9.31		"	10.0		93.1	70-130			20	
Carbon tetrachloride	11.1		"	10.0		111	70-130			20	
Chlorobenzene	10.2		"	10.0		102	70-130			20	
Chloroethane	13.2		"	10.0		132	40-160			20	
Chloroform	11.3		"	10.0		113	70-130			20	
Chloromethane	15.2		"	10.0		152	40-160			20	
cis-1,2-Dichloroethylene	11.9		"	10.0		119	70-130			20	
cis-1,3-Dichloropropylene	9.35		"	10.0		93.5	70-130			20	
Dibromochloromethane	8.76		"	10.0		87.6	70-130			20	
Dichlorodifluoromethane	18.1		"	10.0		181	40-160	High Bias		20	
Hexachlorobutadiene	8.56		"	10.0		85.6	67-146			30	
Methylene chloride	11.3		"	10.0		113	70-130			20	
Tetrachloroethylene	10.3		"	10.0		103	70-130			20	
trans-1,2-Dichloroethylene	12.6		"	10.0		126	70-130			20	
trans-1,3-Dichloropropylene	8.72		"	10.0		87.2	70-130			20	
Trichloroethylene	10.2		"	10.0		102	70-130			20	
Trichlorofluoromethane	14.2		"	10.0		142	40-160			20	
Vinyl Chloride	15.3		"	10.0		153	70-130	High Bias		20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	70-130				
Surrogate: SURR: Toluene-d8	9.41		"	10.0		94.1	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.7		"	10.0		107	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH00132 - EPA 5030B											
LCS Dup (BH00132-BSD1)						Prepared & Analyzed: 07/31/2020					
1,1,1,2-Tetrachloroethane	9.96		ug/L	10.0		99.6	82-126		0.201	30	
1,1,1-Trichloroethane	11.7		"	10.0		117	70-130		1.19	20	
1,1,2,2-Tetrachloroethane	9.20		"	10.0		92.0	70-130		2.75	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.7		"	10.0		127	70-130		0.473	20	
1,1,2-Trichloroethane	8.74		"	10.0		87.4	70-130		0.570	20	
1,1-Dichloroethane	11.2		"	10.0		112	70-130		1.51	20	
1,1-Dichloroethylene	12.8		"	10.0		128	70-130		2.17	20	
1,1-Dichloropropylene	11.4		"	10.0		114	83-133		1.83	30	
1,2,3-Trichlorobenzene	5.48		"	10.0		54.8	70-130	Low Bias	6.99	20	
1,2,3-Trichloropropane	9.87		"	10.0		98.7	77-128		1.84	30	
1,2,4-Trichlorobenzene	7.22		"	10.0		72.2	70-130		4.10	20	
1,2-Dibromo-3-chloropropane	8.22		"	10.0		82.2	40-160		4.73	20	
1,2-Dichlorobenzene	10.2		"	10.0		102	70-130		3.08	20	
1,2-Dichloroethane	10.6		"	10.0		106	70-130		1.41	20	
1,2-Dichloropropane	9.39		"	10.0		93.9	70-130		0.213	20	
1,3-Dichlorobenzene	10.8		"	10.0		108	70-130		3.01	20	
1,3-Dichloropropane	9.08		"	10.0		90.8	81-125		0.996	30	
1,4-Dichlorobenzene	10.9		"	10.0		109	70-130		2.69	20	
2,2-Dichloropropane	16.2		"	10.0		162	56-150	High Bias	2.13	30	
2-Chlorotoluene	11.4		"	10.0		114	79-130		3.67	30	
4-Chlorotoluene	11.1		"	10.0		111	79-128		3.22	30	
Bromochloromethane	10.7		"	10.0		107	70-130		2.12	20	
Bromodichloromethane	9.32		"	10.0		93.2	70-130		0.107	20	
Carbon tetrachloride	10.9		"	10.0		109	70-130		1.64	20	
Chlorobenzene	10.3		"	10.0		103	70-130		0.875	20	
Chloroethane	13.2		"	10.0		132	40-160		0.758	20	
Chloroform	11.1		"	10.0		111	70-130		1.25	20	
Chloromethane	14.7		"	10.0		147	40-160		3.74	20	
cis-1,2-Dichloroethylene	11.8		"	10.0		118	70-130		1.27	20	
cis-1,3-Dichloropropylene	9.17		"	10.0		91.7	70-130		1.94	20	
Dibromochloromethane	8.88		"	10.0		88.8	70-130		1.36	20	
Dichlorodifluoromethane	18.0		"	10.0		180	40-160	High Bias	0.722	20	
Hexachlorobutadiene	8.99		"	10.0		89.9	67-146		4.90	30	
Methylene chloride	11.1		"	10.0		111	70-130		2.41	20	
Tetrachloroethylene	10.6		"	10.0		106	70-130		2.20	20	
trans-1,2-Dichloroethylene	12.3		"	10.0		123	70-130		2.01	20	
trans-1,3-Dichloropropylene	8.74		"	10.0		87.4	70-130		0.229	20	
Trichloroethylene	10.3		"	10.0		103	70-130		0.489	20	
Trichlorofluoromethane	14.2		"	10.0		142	40-160		0.282	20	
Vinyl Chloride	14.9		"	10.0		149	70-130	High Bias	2.52	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.1		"	10.0		101	70-130				
Surrogate: SURR: Toluene-d8	9.51		"	10.0		95.1	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.9		"	10.0		109	70-130				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G1017-01	IMW-1 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-02	IMW-2 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-03	IMW-5 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-04	IMW-6 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-05	EMW-1 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-06	EMW-2 20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-07	DUP-20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G1017-08	TB-20200727	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

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

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

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

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



Certification for pH is no longer offered by NYDOH ELAP.

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

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: VOC target list revised to Chlorinated compounds only by Scott Spitzer on 7/31/20.



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

Field Chain-of-Custody Record

Page ____ of ____

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

York Project No. 2061017

YOUR Information		Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Company: WCD Group	<u>SAME</u> ☒	<u>SAME</u> ☒	<u>SAME</u> ☒	LM97145	RUSH-Same Day	Summary Report ☒
Address: 24 Davis Avenue		Name:			RUSH-Next Day	QA Report
Poughkeepsie, NY 12603		Company:			RUSH-Two Day	CT RCP
Phone.: 845-452-1658		Address:			RUSH-Three Day	CT RCP DQA/DUE Pkg
Contact: Scott Spitzer		Brenda			RUSH-Four Day	NY ASP A Package
E-mail: scott_spitzer@wcdgroup.com					Standard (5-7day)	NY ASP B Package ☒
						NJDEP Reduced Deliv

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Samples Collected/Authorized By (Signature)
[Signature]
Name (printed)
Carole SACAR

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
IMW-1 20200727	7/27/2020	water	VOCs, Halogenated (8260)	4 X 40 ml vial (HCl)
IMW-2 20200727				
IMW-5 20200727				
IMW-6 20200727				
EMW-1 20200727				
EMW-2 20200727				
DUP-20200727				
TB-20200727		trip blank		2 X 40 ml vial (HCl)

Comments:
Survival: 20 Industrial Place Ext. Middletown NY 10940

date volume provided from EM-1 for MS/MSD anal

Preservation (check all applicable)
4°C ☐ Frozen ☐ HCl ☐ MeOH ☐ HNO₃ ☐ NaOH ☐ Other ☐

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By [Signature] Date/Time 7/28/2020 10:40
Samples Received By [Signature] Date/Time 7/28/2020 1425

Samples Relinquished By [Signature] Date/Time 7/28/2020 1425
Samples Received in L.A.B. by [Signature] Date/Time 7/28/2020 1425

Temperature on Receipt 21 °C

APPENDIX E: Dust Monitoring Data

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/29/2020
Instrument S/N	8530162013	Start Time	09:44:11
		Stop Date	06/29/2020
		Stop Time	15:59:11
		Total Time	0:06:15:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	06/29/2020	09:59:11	0.045
2	06/29/2020	10:14:11	0.054
3	06/29/2020	10:29:11	0.907
4	06/29/2020	10:44:11	1.640
5	06/29/2020	10:59:11	0.892
6	06/29/2020	11:14:11	0.803
7	06/29/2020	11:29:11	0.575
8	06/29/2020	11:44:11	0.290
9	06/29/2020	11:59:11	0.386
10	06/29/2020	12:14:11	0.266
11	06/29/2020	12:29:11	0.156
12	06/29/2020	12:44:11	0.118
13	06/29/2020	12:59:11	0.037
14	06/29/2020	13:14:11	0.088
15	06/29/2020	13:29:11	0.047
16	06/29/2020	13:44:11	0.042
17	06/29/2020	13:59:11	0.029
18	06/29/2020	14:14:11	0.032
19	06/29/2020	14:29:11	0.030
20	06/29/2020	14:44:11	0.035
21	06/29/2020	14:59:11	0.055
22	06/29/2020	15:14:11	0.053
23	06/29/2020	15:29:11	0.028
24	06/29/2020	15:44:11	0.035
25	06/29/2020	15:59:11	0.024

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/30/2020
Instrument S/N	8530162013	Start Time	09:18:36
		Stop Date	06/30/2020
		Stop Time	15:18:36
		Total Time	0:06:00:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	06/30/2020	09:33:36	0.054
2	06/30/2020	09:48:36	0.076
3	06/30/2020	10:03:36	0.102
4	06/30/2020	10:18:36	0.158
5	06/30/2020	10:33:36	0.194
6	06/30/2020	10:48:36	0.128
7	06/30/2020	11:03:36	0.127
8	06/30/2020	11:18:36	0.103
9	06/30/2020	11:33:36	0.053
10	06/30/2020	11:48:36	0.045
11	06/30/2020	12:03:36	0.035
12	06/30/2020	12:18:36	0.090
13	06/30/2020	12:33:36	0.078
14	06/30/2020	12:48:36	0.074
15	06/30/2020	13:03:36	0.055
16	06/30/2020	13:18:36	0.057
17	06/30/2020	13:33:36	0.072
18	06/30/2020	13:48:36	0.065
19	06/30/2020	14:03:36	0.069
20	06/30/2020	14:18:36	0.095
21	06/30/2020	14:33:36	0.102
22	06/30/2020	14:48:36	0.112
23	06/30/2020	15:03:36	0.045
24	06/30/2020	15:18:36	0.073

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/01/2020
Instrument S/N	8530162013	Start Time	11:23:05
		Stop Date	07/01/2020
		Stop Time	14:53:05
		Total Time	0:03:30:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/01/2020	11:38:05	0.216
2	07/01/2020	11:53:05	0.174
3	07/01/2020	12:08:05	0.087
4	07/01/2020	12:23:05	0.053
5	07/01/2020	12:38:05	0.049
6	07/01/2020	12:53:05	0.042
7	07/01/2020	13:08:05	0.033
8	07/01/2020	13:23:05	0.055
9	07/01/2020	13:38:05	0.089
10	07/01/2020	13:53:05	0.196
11	07/01/2020	14:08:05	0.088
12	07/01/2020	14:23:05	0.053
13	07/01/2020	14:38:05	0.044
14	07/01/2020	14:53:05	0.047

Test 004

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/02/2020
Instrument S/N	8530162013	Start Time	08:22:53
		Stop Date	07/02/2020
		Stop Time	12:37:53
		Total Time	0:04:15:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/02/2020	09:21:54	0.000
2	07/02/2020	09:22:53	0.366
3	07/02/2020	09:37:53	0.370
4	07/02/2020	09:52:53	0.443
5	07/02/2020	10:07:53	0.800
6	07/02/2020	10:22:53	0.695
7	07/02/2020	10:37:53	0.482
8	07/02/2020	10:52:53	0.343
9	07/02/2020	11:07:53	0.219
10	07/02/2020	11:22:53	0.183
11	07/02/2020	11:37:53	0.165
12	07/02/2020	11:52:53	0.162
13	07/02/2020	12:07:53	0.140
14	07/02/2020	12:22:53	0.108
15	07/02/2020	12:37:53	0.087

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/29/2020
Instrument S/N	8530162501	Start Time	09:42:44
		Stop Date	06/29/2020
		Stop Time	15:57:44
		Total Time	0:06:15:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	06/29/2020	09:57:44	0.035
2	06/29/2020	10:12:44	0.042
3	06/29/2020	10:27:44	0.077
4	06/29/2020	10:42:44	3.070
5	06/29/2020	10:57:44	0.942
6	06/29/2020	11:12:44	0.855
7	06/29/2020	11:27:44	0.690
8	06/29/2020	11:42:44	0.733
9	06/29/2020	11:57:44	0.704
10	06/29/2020	12:12:44	0.600
11	06/29/2020	12:27:44	0.294
12	06/29/2020	12:42:44	0.151
13	06/29/2020	12:57:44	0.143
14	06/29/2020	13:12:44	0.192
15	06/29/2020	13:27:44	0.473
16	06/29/2020	13:42:44	0.576
17	06/29/2020	13:57:44	0.462
18	06/29/2020	14:12:44	0.323
19	06/29/2020	14:27:44	0.291
20	06/29/2020	14:42:44	0.251
21	06/29/2020	14:57:44	0.215
22	06/29/2020	15:12:44	0.216
23	06/29/2020	15:27:44	0.205
24	06/29/2020	15:42:44	0.145
25	06/29/2020	15:57:44	0.122

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/30/2020
Instrument S/N	8530162501	Start Time	09:12:40
		Stop Date	06/30/2020
		Stop Time	15:27:40
		Total Time	0:06:15:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.181 mg/m ³
Max	0.564 mg/m ³
Max Date	06/30/2020
Max Time	10:42:40
Min	0.004 mg/m ³
Min Date	06/30/2020
Min Time	15:27:40
TWA (8 hr)	0.142
TWA Start Date	06/30/2020
TWA Start Time	09:12:40
TWA End Time	15:27:40

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	06/30/2020	09:27:40	0.016
2	06/30/2020	09:42:40	0.061
3	06/30/2020	09:57:40	0.166
4	06/30/2020	10:12:40	0.237
5	06/30/2020	10:27:40	0.351
6	06/30/2020	10:42:40	0.564
7	06/30/2020	10:57:40	0.531
8	06/30/2020	11:12:40	0.332
9	06/30/2020	11:27:40	0.082
10	06/30/2020	11:42:40	0.050
11	06/30/2020	11:57:40	0.047
12	06/30/2020	12:12:40	0.185
13	06/30/2020	12:27:40	0.218
14	06/30/2020	12:42:40	0.214
15	06/30/2020	12:57:40	0.094
16	06/30/2020	13:12:40	0.058
17	06/30/2020	13:27:40	0.219
18	06/30/2020	13:42:40	0.100
19	06/30/2020	13:57:40	0.094
20	06/30/2020	14:12:40	0.143
21	06/30/2020	14:27:40	0.154

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
22	06/30/2020	14:42:40	0.214
23	06/30/2020	14:57:40	0.275
24	06/30/2020	15:12:40	0.120
25	06/30/2020	15:27:40	0.004

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/01/2020
Instrument S/N	8530162501	Start Time	11:25:27
		Stop Date	07/01/2020
		Stop Time	14:40:27
		Total Time	0:03:15:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/01/2020	11:40:27	0.565
2	07/01/2020	11:55:27	0.487
3	07/01/2020	12:10:27	0.342
4	07/01/2020	12:25:27	0.320
5	07/01/2020	12:40:27	0.250
6	07/01/2020	12:55:27	0.224
7	07/01/2020	13:10:27	0.215
8	07/01/2020	13:25:27	0.120
9	07/01/2020	13:40:27	0.083
10	07/01/2020	13:55:27	0.122
11	07/01/2020	14:10:27	0.193
12	07/01/2020	14:25:27	0.199
13	07/01/2020	14:40:27	0.161

Test 004

ERROR: FLOW,

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/02/2020
Instrument S/N	8530162501	Start Time	08:21:33
		Stop Date	07/02/2020
		Stop Time	12:51:33
		Total Time	0:04:30:00
		Logging Interval	900 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/02/2020	08:36:33	0.125
2	07/02/2020	08:51:33	0.104
3	07/02/2020	09:06:33	0.207
4	07/02/2020	09:21:33	0.173
5	07/02/2020	09:36:33	0.070
6	07/02/2020	09:51:33	0.196
7	07/02/2020	10:06:33	0.119
8	07/02/2020	10:21:33	0.067
9	07/02/2020	10:36:33	0.067
10	07/02/2020	10:51:33	0.100
11	07/02/2020	11:06:33	0.068
12	07/02/2020	11:21:33	0.063
13	07/02/2020	11:36:33	0.057
14	07/02/2020	11:51:33	0.051
15	07/02/2020	12:06:33	0.074
16	07/02/2020	12:21:33	0.165
17	07/02/2020	12:36:33	0.048
18	07/02/2020	12:51:33	0.050

APPENDIX F: Design Parameter Evaluation Report



MEC^x
8864 Interchange Dr., Houston, TX 77054-2512
Phone (713) 585-7000 • Fax (713) 585-7049

16 December 2020

Mr. Eric Telemaque
Managing Director, Environmental Consulting
Gallagher Bassett Technical Services Division
1350 Broadway, Suite 1904
New York, NY 10018
eric_telemaque@GBTSgroup.com

Re: In-Situ Chemical Oxidation Design Parameter Evaluation Report
Wallkill Wellfield Site
Middletown, New York

Dear Mr. Telemaque:

MEC^x is pleased to submit this Design Parameter Evaluation (DPE) Report, to Gallagher Bassett Technical Services (GBTS) for the treatment of chlorinated solvent-affected soils at the Wallkill Wellfield Site located in Middletown, New York (the Site). MEC^x performed an in-situ chemical oxidation (ISCO) DPE using groundwater samples collected by GBTS and soil samples collected by MEC^x.

TECHNOLOGY SELECTION

MEC^x selected a proprietary ISCO approach using a combination of biodegradable solvent and alkaline-activated sodium persulfate (A-ASP) with an engineered recirculation system. The purpose of this technology is to solubilize sorbed contaminant mass, and then oxidize the dissolved contaminants. This liquid phase technology provides high-energy oxidation treatment for weeks after the reagents have been applied, thereby enabling the contact and destruction of dissolved mass throughout the treatment zones. Further, the engineered recirculation enhances oxidant distribution within the target treatment area.

PURPOSE

The purpose of the DPE is to provide qualitative and quantitative data that will aid in the design of an effective ISCO field program. An ancillary benefit of the MEC^x DPE is the generation of relative destruction efficiencies from various reagent formulations. MEC^x's specific objectives include:

1. Sample reactivity: the addition of ISCO reagents to soil and groundwater can result in reactions that can affect the rate at which MEC^x can apply the oxidizing reagents in field applications. During the DPE testing, MEC^x visually observed reactions to obtain a qualitative measure of reactivity and formation of precipitates.
2. Estimate contaminant reductions resulting from various reagent formulations.
3. Refine reagent dosages for field application.

DPE LABORATORY METHODOLOGIES AND PROCEDURES

MEC^x performed the DPE using groundwater and soil samples collected from the Site. MEC^x performed the DPE between 15 September 2020 and 22 October 2020, with active oxidation intentionally terminated on 21 October 2020.

The soil consists of silty sand with gravel. MEC^x mixed the contents of the soil samples together to homogenize the soil. MEC^x also mixed the contents of the groundwater samples to homogenize the



groundwater. MEC^x then placed pre-determined amounts of soil and groundwater samples into laboratory-grade glass test columns. MEC^x also established reagent reservoirs containing groundwater as the supply source for the recirculation process. MEC^x prepared the soil, groundwater and testing columns as summarized below.

1. MEC^x separated the homogenized groundwater into clean reagent reservoir beakers assigned to each individual reaction columns to form the one control (C-1) and three reaction sample columns (R-1, R-2 and R-3).
2. MEC^x placed the homogenized soils and groundwater into individual columns C-1, R-1, R-2 and R-3.
3. MEC^x added an organic biodegradable solvent of limonene solution into each of the four columns.
4. MEC^x titrated the water/soil in each of the three reaction columns (R-1, R-2 and R-3) with 25% sodium hydroxide until we achieved the desired pH of 10 to 11 standard units (SU).
5. MEC^x circulated the amended groundwater solution through the soil using low-flow peristaltic pumps.
6. MEC^x added the desired A-ASP to into column reagent reservoirs R-1, R-2 and R-3.
7. MEC^x circulated the amended groundwater solution through the soil in the four columns using low-flow peristaltic pumps.
8. MEC^x performed periodic monitoring and testing of the recirculated water to evaluate the pH and residual persulfate each column, and to adjust the pH as needed.

Table 1 contains a summary of the soil/groundwater and reagents MEC^x added to each column.

Table 1 – Reagent Summary

Column	Soil (g)	Groundwater (ml)	Sodium Persulfate (g)	Sodium Hydroxide (ml)	Limonene Solution (ml)
Control 1 (C-1)	3,793	1,209	0	0	54
Reacted 1 (R-1)	3,793	1,209	20	13	54
Reacted 2 (R-2)	3,793	1,209	41	13	54
Reacted 3 (R-3)	3,793	1,209	68	14	54

MONITORING OBSERVATIONS

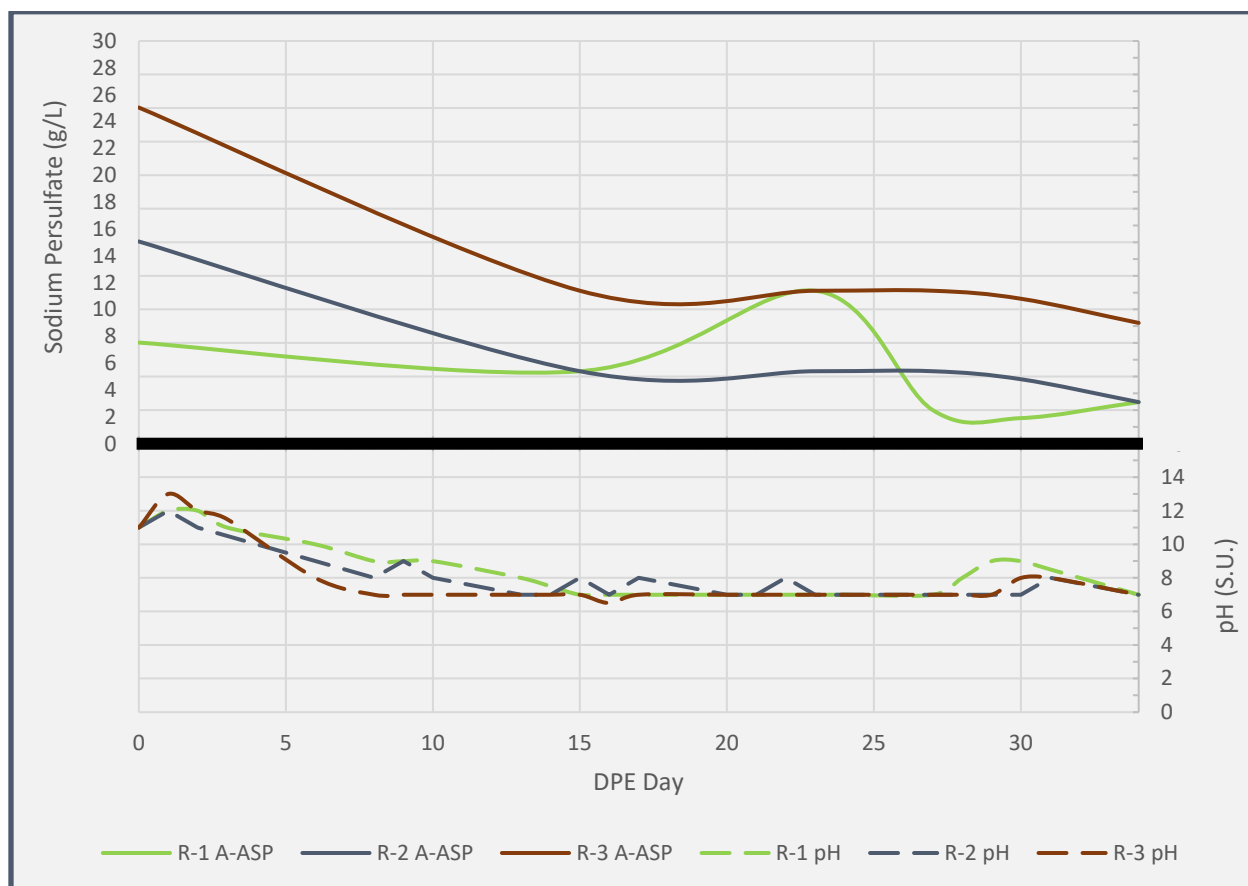
MEC^x monitored the reactions throughout the DPE process. We observed minor precipitate formation at the top of each column approximately 24 hours after adding sodium hydroxide and A-ASP. However, the precipitate did not impede flow through the columns or cause increased back pressures. We did not observe unanticipated physical reactions (i.e., effervescence, etc.) during the DPE.

Back pressures of up to 6 pounds per square inch (psi) occurred in column R-3. Columns R-1 and R-2 did not exhibit back pressures greater than 1 psi throughout the DPE process. Although we do not anticipate back pressures to impede application flow rates during the field application, we recommend low-flow application rates between 0.25 gpm (gallons per minute) and 2.0 gpm per application well to use existing flow channels within the target treatment area.

MEC^x periodically measured pH and residual persulfate in the amended circulation groundwater. As

anticipated, the soils have a buffering effect that necessitate adding sodium hydroxide throughout the treatment period. Due to external project time constraints, MEC^x terminated reactions before A-ASP depletion reached an asymptotic level. To terminate reactions, MEC^x added sodium bisulfite to each reaction vessel on 21 October 2020 and then allowed the sodium bisulfite to circulate through the reaction vessels until 22 October 2020, at which time we collected post-treatment soil and groundwater samples for laboratory analyses. Graph 1 below displays the measured pH and residual A-ASP during the testing process.

Graph 1 – DPE A-ASP Concentrations



ANALYTICAL RESULTS

GBTs's subcontracted laboratory, York Analytical Laboratories, Inc. (YAL) of Richmond Hill, New York, analyzed pre-treatment and post-treatment soil and groundwater samples from the DPE. Tetrachloroethene (PCE), a volatile organic compound (VOC), is the primary contaminant of concern (COC). Therefore, MEC^x evaluated PCE destruction achieved during the DPE. We also evaluated the destruction of daughter products of PCE including trichloroethene (TCE) and cis-1,2-dichloroethylene (cis-DCE).

The baseline sample sent directly from the field to the laboratory contained PCE concentrations of 0.861 mg/L in groundwater and 5.720 mg/kg in soil. The baseline samples were composite samples collected from six monitoring wells (IMW-1, IMW-2, IMW-5, IMW-6, EMW-1 and EMW-2), with soil samples generally being from between 11 feet (ft) below ground surface (bgs) and 16 ft bgs. Assuming a soil

porosity of 37%, this translates to about 85% of the PCE mass is present in the sorbed, or soil, phase at the Site.

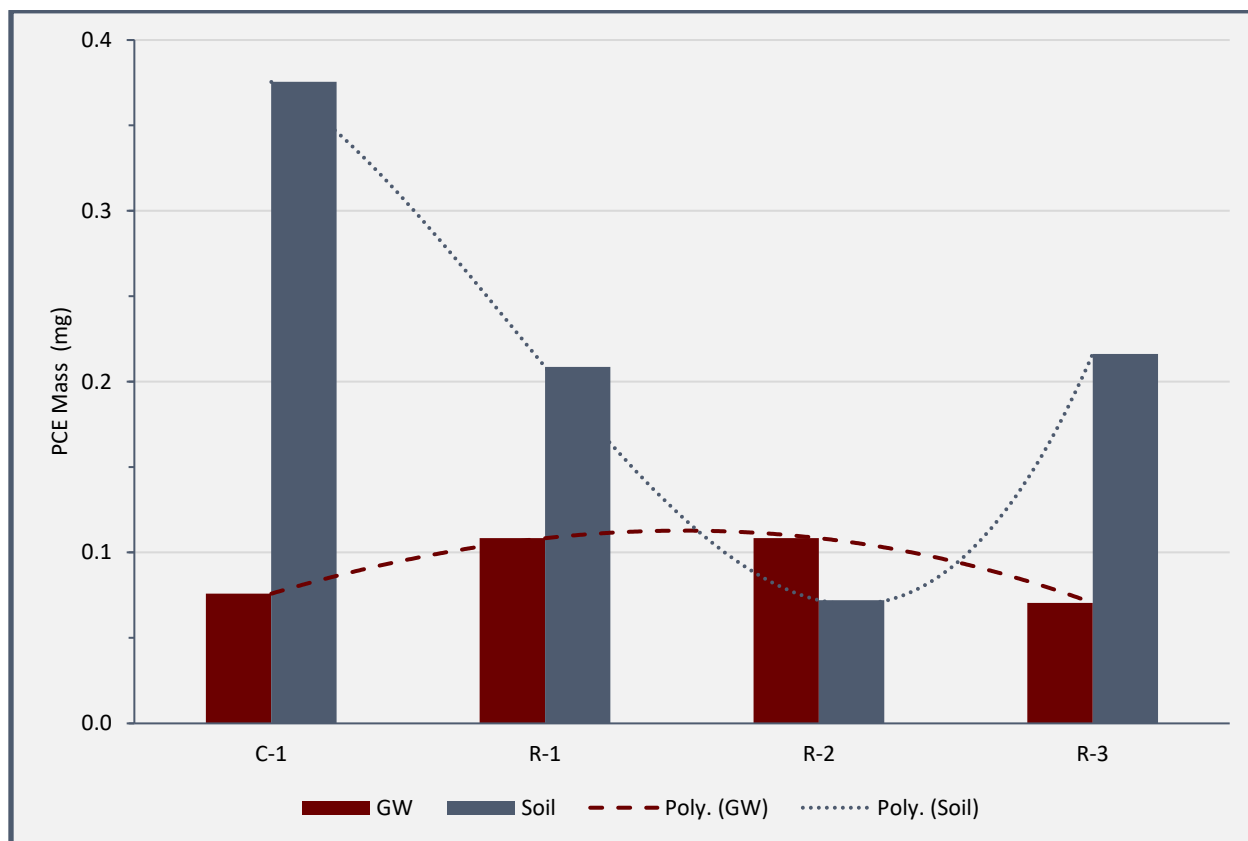
A summary of the analytical results for PCE and total chlorinated solvents destruction in the DPE samples is presented in the table below.

Table 2 – Post-Treatment PCE

Analyte	Units	C-1	R-1	R-2	R-3
PCE Concentration (Soil)	mg/kg	0.099	0.055	0.019	0.057
PCE Concentration (Groundwater)	mg/L	0.028	0.040	0.040	0.026
PCE Mass (Total)	mg	0.451	0.317	0.180	0.287
Total Chlorinated Solvents Mass (Total)	mg	1.015	0.770	0.392	0.466

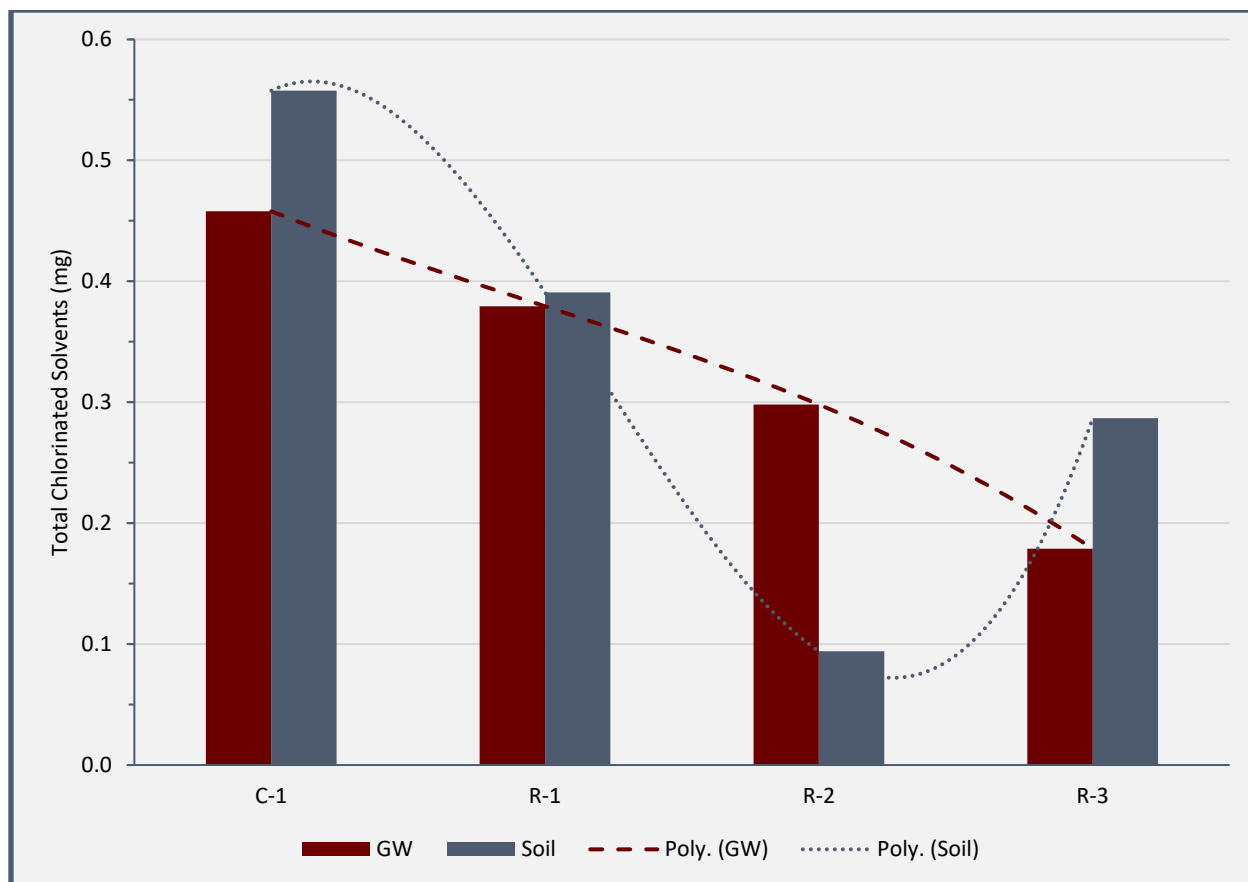
PCE mass in the soil and groundwater for each reaction column is shown in Graph 2 below.

Graph 2 – DPE PCE Destruction



MECX[®] also calculated total mass destruction of the total chlorinated solvents detected in the post-treatment sample analysis. This includes PCE as well as its degradation compounds, such as TCE and dis-DCE. Vinyl chloride, another daughter compound of PCE, was not detected in the post-treatment samples; therefore, it is not included in this evaluation. Total chlorinated solvents mass in the soil and groundwater for each reaction column is shown in Graph 3 below.

Graph 3 – DPE Total Chlorinated Solvents Destruction



As requested by GBTS, YAL also analyzed one pre-treatment and one post-treatment sample for total petroleum hydrocarbons (TPH) diesel-range organics (DRO) and gasoline-range organics (GRO). In the baseline sample sent directly from the field to the laboratory, TPH-DRO was not detected and TPH-GRO was measured at 37.0 mg/kg in soil. In the post-treatment sample, TPH-DRO was measured at 275 mg/kg in soil and TPH-GRO was measured at 517 mg/kg in soil. However, the limonene solution used is a detected in the TPH analyses and is indicative of residual limonene since the oxidation reactions were terminated before completion. MEC^x added approximately 45,000 mg of limonene solution and 3.8 kg of soil to each column; therefore, the limonene accounts for the TPH detected in the post-treatment analysis.

Attachment A includes summarized analytical results and laboratory reports.

CONCLUSIONS

MEC^x makes the following conclusions from the DPE:

1. Reactivity and pH:
 - a) Incidental precipitate formed within the columns and likely represents a reaction between the limonene solution and groundwater. We did not observe adverse effects (i.e., plugging flow or increasing back pressures) of the precipitate to the treatment process.
 - b) Adverse physical reactions (i.e., effervescence) did not occur.



- c) The soils have moderate permeability. Only column R-3 experienced back pressure greater than 1 psi. Flow rates (0.25-2.0 gpm) are still anticipated during the field application to minimize volatilization.
 - d) The soil has a buffering capacity that necessitates periodic addition of sodium hydroxide throughout the treatment cycle to maintain the desired alkaline pH for activation of the A-ASP.
2. Contaminant destruction:
- a) Due to project time constraints, MEC^x terminated the oxidation reactions before the persulfate was depleted. Therefore, the full oxidative effect of persulfate can only be estimated at this time.
 - b) There appears to have been volatilization of PCE from physical processes during the DPE.
3. Field reagent formulation:
- a) MEC^x recommends the formulation for column R-2 for field implementation due to the mass destruction of PCE and total chlorinated solvents. PCE in column R-2 experienced 60% reduction in total PCE mass and 61% reduction in total chlorinated solvents mass when compared to the control sample. This is significant considering that about 85% of the total PCE exists in the soil phase at the Site and that we intentionally terminated the oxidation reaction early.
 - b) MEC^x recommends the following field formulation, based on a scale-up of the DPE formulation for column R-2:

Table 3 – Recommended Field Formulation

Reagent	Units	Quantity for Each of 6 Application Wells	Project Total
Granular Sodium Persulfate	lb	465	2,810
Limonene solution	gal	75	450
25% Sodium Hydroxide	gal	40	240

Based on the recommended volumes above, MEC^x needs to apply reagents at a rate of 1.5 gpm to achieve the previously estimated budget of 5 total days during this field application.

Please feel free to call me at 713.585.7000 (extension 7008) if you have any questions regarding the DPE described herein.

Sincerely,

Isaac M. Aboulafia, P.E.
Executive Vice President

cc: Larry Rader, Doug Carvel



MECX^x
8864 Interchange Dr., Houston, TX 77054-2512
Phone (713) 585-7000 • Fax (713) 585-7049

Proprietary and Confidential

Attachment A
Laboratory Reports



Technical Report

prepared for:

Gallagher Bassett - Poughkeepsie, NY

22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Report Date: 11/03/2020

Client Project ID: Wallkill Wellfield - MECX

York Project (SDG) No.: 20J1088

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/03/2020
Client Project ID: Wallkill Wellfield - MECX
York Project (SDG) No.: 20J1088

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Scott Spitzer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 23, 2020 and listed below. The project was identified as your project: **Wallkill Wellfield - MECX**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20J1088-01	C	Soil	10/22/2020	10/23/2020
20J1088-02	R-1	Soil	10/22/2020	10/23/2020
20J1088-03	R-2	Soil	10/22/2020	10/23/2020
20J1088-04	R-3	Soil	10/22/2020	10/23/2020
20J1088-05	C	Water	10/22/2020	10/23/2020
20J1088-06	R-1	Water	10/22/2020	10/23/2020
20J1088-07	R-2	Water	10/22/2020	10/23/2020
20J1088-08	R-3	Water	10/22/2020	10/23/2020
20J1088-09	Trip Blank	Water	10/22/2020	10/23/2020

General Notes for York Project (SDG) No.: 20J1088

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/03/2020





Sample Information

Client Sample ID: C

York Sample ID: 20J1088-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20J1088

Wallkill Wellfield - MECX

Soil

October 22, 2020 11:15 am

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:32	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:32	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.059	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS



Sample Information

Client Sample ID: C

York Sample ID: 20J1088-01

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 11:15 am

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
67-64-1	Acetone	0.017		mg/kg dry	0.0059	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0059	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
156-59-2	cis-1,2-Dichloroethylene	0.013		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS



Sample Information

Client Sample ID: C

York Sample ID: 20J1088-01

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 11:15 am

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0059	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.029	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
127-18-4	Tetrachloroethylene	0.099		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
79-01-6	Trichloroethylene	0.035		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:32	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0088	0.018	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:32	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	77-125								



Sample Information

Client Sample ID: C

York Sample ID: 20J1088-01

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

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October 22, 2020 11:15 am

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	79.6 %			76-130						

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.4		%	0.100	1	SM 2540G Certifications: CTDOH	10/26/2020 08:58	10/26/2020 16:01	SK

Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-02

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Soil

Collection Date/Time

October 22, 2020 12:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:57	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:57	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-02

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

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October 22, 2020 12:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.058	0.12	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
78-93-3	2-Butanone	0.028		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
67-64-1	Acetone	16		mg/kg dry	0.58	1.2	10	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 18:12	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-02

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

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Collection Date/Time

October 22, 2020 12:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
156-59-2	cis-1,2-Dichloroethylene	0.022		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 01:57	SS



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-02

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 12:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.029	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
127-18-4	Tetrachloroethylene	0.055		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
108-88-3	Toluene	0.0073		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
79-01-6	Trichloroethylene	0.026		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 01:57	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0088	0.018	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 01:57	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	94.4 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	104 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	89.1 %	76-130								

Total Petro. Hydrocarbons-DRO (C10-C44)

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	275		mg/kg dry	11.6	1	EPA 8015D Certifications: PADEP	10/29/2020 13:59	10/30/2020 10:21	SGM
Surrogate Recoveries		Result	Acceptance Range							
638-68-6	Surrogate: Triaccontane	72.1 %	30-150							

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	517		mg/kg dry	93.4	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	10/29/2020 16:28	10/30/2020 00:50	SS



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-02

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

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Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	107 %		70-130						

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.7		%	0.100	1	SM 2540G Certifications: CTDOH	10/23/2020 14:30	10/26/2020 10:11	JAG

Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-03

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Soil

Collection Date/Time

October 22, 2020 1:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:23	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-03

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.058	0.12	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
78-93-3	2-Butanone	0.019		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
67-64-1	Acetone	15	CCV-E	mg/kg dry	0.58	1.2	10	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 19:39	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-03

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications:	10/28/2020 12:30	10/29/2020 02:23	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-03

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.029	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
127-18-4	Tetrachloroethylene	0.019		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
108-88-3	Toluene	0.0034	J	mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:23	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0087	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:23	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	90.9 %				77-125					
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	101 %				85-120					
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	95.8 %				76-130					

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.4		%	0.100	1	SM 2540G Certifications: CTDOH	10/26/2020 08:58	10/26/2020 16:01	SK

Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-04

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:40 pm

Date Received
10/23/2020



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-04

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Soil

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:48	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.058	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
78-93-3	2-Butanone	0.033		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-04

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:40 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes: VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	9.4	CCV-E	mg/kg dry	0.58	1.2	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 20:06	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
156-59-2	cis-1,2-Dichloroethylene	0.0036	J	mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-04

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Soil

Collection Date/Time
October 22, 2020 1:40 pm

Date Received
10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0058	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.029	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
127-18-4	Tetrachloroethylene	0.057		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
108-88-3	Toluene	0.0033	J	mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
79-01-6	Trichloroethylene	0.015		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2020 12:30	10/29/2020 02:48	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0087	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2020 12:30	10/29/2020 02:48	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	91.8 %	77-125								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	102 %	85-120								



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-04

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Soil

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.9 %			76-130						

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.3		%	0.100	1	SM 2540G Certifications: CTDOH	10/26/2020 08:58	10/26/2020 16:01	SK

Sample Information

Client Sample ID: C

York Sample ID: 20J1088-05

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 11:15 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 15:03	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
95-93-2	1,2,4,5-Tetramethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:03	TMP



Sample Information

Client Sample ID: C

York Sample ID: 20J1088-05

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Water

Collection Date/Time
October 22, 2020 11:15 am

Date Received
10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
78-93-3	2-Butanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
591-78-6	2-Hexanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
67-64-1	Acetone	100	Cal-E, J	ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
71-43-2	Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
108-86-1	Bromobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
74-97-5	Bromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-27-4	Bromodichloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-25-2	Bromoform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP



Sample Information

Client Sample ID: C

York Sample ID: 20J1088-05

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 11:15 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-15-0	Carbon disulfide	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
108-90-7	Chlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-00-3	Chloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
67-66-3	Chloroform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
74-87-3	Chloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
156-59-2	cis-1,2-Dichloroethylene	93		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
124-48-1	Dibromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
74-95-3	Dibromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
100-41-4	Ethyl Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
98-82-8	Isopropylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
75-09-2	Methylene chloride	ND		ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
91-20-3	Naphthalene	ND		ug/L	100	200	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
104-51-8	n-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
103-65-1	n-Propylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
95-47-6	o-Xylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:03	TMP
105-05-5	p-Diethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:03	TMP



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-06

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 15:29	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
95-93-2	1,2,4,5-Tetramethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:29	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-06

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Water

Collection Date/Time
October 22, 2020 12:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	130	Cal-E, CCV-E	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
591-78-6	2-Hexanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
67-64-1	Acetone	8300	Cal-E	ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
71-43-2	Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
108-86-1	Bromobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
74-97-5	Bromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-27-4	Bromodichloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-25-2	Bromoform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
74-83-9	Bromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-15-0	Carbon disulfide	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
108-90-7	Chlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-00-3	Chloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
67-66-3	Chloroform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
74-87-3	Chloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
156-59-2	cis-1,2-Dichloroethylene	58		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
124-48-1	Dibromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
74-95-3	Dibromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-06

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Water

Collection Date/Time
October 22, 2020 12:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
98-82-8	Isopropylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-09-2	Methylene chloride	ND		ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
91-20-3	Naphthalene	ND		ug/L	100	200	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
104-51-8	n-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
103-65-1	n-Propylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
95-47-6	o-Xylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
105-05-5	p-Diethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:29	TMP
622-96-8	p-Ethyltoluene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:29	TMP
99-87-6	p-Isopropyltoluene	1200		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
100-42-5	Styrene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
127-18-4	Tetrachloroethylene	40	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
108-88-3	Toluene	30	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
79-01-6	Trichloroethylene	42	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP
75-01-4	Vinyl Chloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:29	TMP



Sample Information

Client Sample ID: R-1

York Sample ID: 20J1088-06

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	60	150	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 15:29	TMP
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	102 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	98.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.9 %			79-122						

Total Petro. Hydrocarbons-DRO (C10-C44)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	3400		mg/L	13.9	25	EPA 8015D Certifications: PADEP	10/28/2020 15:15	10/30/2020 15:25	SGM
Surrogate Recoveries		Result			Acceptance Range					
638-68-6	Surrogate: Triacotane	189 %			40-150					

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	209		mg/L	160	200	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	10/30/2020 09:30	10/30/2020 15:34	SS
Surrogate Recoveries		Result			Acceptance Range					
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %			70-130					

Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-07

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-07

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Water

Collection Date/Time
October 22, 2020 1:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 15:55	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
95-93-2	1,2,4,5-Tetramethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
78-93-3	2-Butanone	300	Cal-E, CCV-E	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-07

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
591-78-6	2-Hexanone	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
67-64-1	Acetone	20000	Cal-E, CCV-E	ug/L	200	400	200	EPA 8260C Certifications:	10/29/2020 06:47	11/03/2020 14:58	TMP
71-43-2	Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
108-86-1	Bromobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
74-97-5	Bromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
75-27-4	Bromodichloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
75-25-2	Bromoform	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
74-83-9	Bromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
75-15-0	Carbon disulfide	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
108-90-7	Chlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
75-00-3	Chloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
67-66-3	Chloroform	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
74-87-3	Chloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
156-59-2	cis-1,2-Dichloroethylene	39	J	ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
124-48-1	Dibromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
74-95-3	Dibromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP
100-41-4	Ethyl Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 15:55	TMP



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-07

York Project (SDG) No.
20J1088

Client Project ID
Wallkill Wellfield - MECX

Matrix
Water

Collection Date/Time
October 22, 2020 1:00 pm

Date Received
10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
98-82-8	Isopropylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
75-09-2	Methylene chloride	ND		ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
91-20-3	Naphthalene	ND		ug/L	100	200	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
104-51-8	n-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
103-65-1	n-Propylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
95-47-6	o-Xylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
105-05-5	p-Diethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
622-96-8	p-Ethyltoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
99-87-6	p-Isopropyltoluene	460		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
100-42-5	Styrene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
127-18-4	Tetrachloroethylene	40	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
108-88-3	Toluene	35	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
79-01-6	Trichloroethylene	31	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
75-01-4	Vinyl Chloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 15:55	TMP
1330-20-7	Xylenes, Total	ND		ug/L	60	150	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 15:55	TMP



Sample Information

Client Sample ID: R-2

York Sample ID: 20J1088-07

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:00 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	96.8 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.7 %			79-122						

Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-08

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 16:21	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
95-93-2	1,2,4,5-Tetramethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 16:21	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-08

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
78-93-3	2-Butanone	390	Cal-E, CCV-E	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
591-78-6	2-Hexanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
67-64-1	Acetone	11000	Cal-E	ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
71-43-2	Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
108-86-1	Bromobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
74-97-5	Bromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-27-4	Bromodichloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-25-2	Bromoform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
74-83-9	Bromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-15-0	Carbon disulfide	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-08

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
108-90-7	Chlorobenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-00-3	Chloroethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
67-66-3	Chloroform	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
74-87-3	Chloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
124-48-1	Dibromochloromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
74-95-3	Dibromomethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
100-41-4	Ethyl Benzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	20	50	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
98-82-8	Isopropylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-09-2	Methylene chloride	ND		ug/L	100	200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
91-20-3	Naphthalene	ND		ug/L	100	200	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
104-51-8	n-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
103-65-1	n-Propylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
95-47-6	o-Xylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
105-05-5	p-Diethylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 16:21	TMP
622-96-8	p-Ethyltoluene	ND		ug/L	20	50	100	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 16:21	TMP
99-87-6	p-Isopropyltoluene	490		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP



Sample Information

Client Sample ID: R-3

York Sample ID: 20J1088-08

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 1:40 pm

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
100-42-5	Styrene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
127-18-4	Tetrachloroethylene	26	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
108-88-3	Toluene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
79-01-6	Trichloroethylene	20	J	ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
75-01-4	Vinyl Chloride	ND		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 16:21	TMP
1330-20-7	Xylenes, Total	ND		ug/L	60	150	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 16:21	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	99.6 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	93.6 %	79-122								

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20J1088-09

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20J1088-09

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 13:44	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
95-93-2	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 13:44	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20J1088-09

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
67-64-1	Acetone	1.2	Cal-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20J1088-09

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 13:44	TMP
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/29/2020 06:47	10/29/2020 13:44	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/29/2020 06:47	10/29/2020 13:44	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/29/2020 06:47	10/29/2020 13:44	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	69-130								



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20J1088-09

York Project (SDG) No.

20J1088

Client Project ID

Wallkill Wellfield - MECX

Matrix

Water

Collection Date/Time

October 22, 2020 12:00 am

Date Received

10/23/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	99.2 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.9 %			79-122						



Analytical Batch Summary

Batch ID: BJ01393 **Preparation Method:** % Solids Prep **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-02	R-1	10/23/20
BJ01393-DUP1	Duplicate	10/23/20

Batch ID: BJ01422 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-01	C	10/26/20
20J1088-03	R-2	10/26/20
20J1088-04	R-3	10/26/20

Batch ID: BJ01650 **Preparation Method:** EPA 3510C **Prepared By:** YG

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-06	R-1	10/28/20

Batch ID: BJ01654 **Preparation Method:** EPA 5035A **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-01	C	10/28/20
20J1088-02	R-1	10/28/20
20J1088-03	R-2	10/28/20
20J1088-04	R-3	10/28/20
BJ01654-BLK1	Blank	10/28/20
BJ01654-BLK2	Blank	10/28/20
BJ01654-BS1	LCS	10/28/20
BJ01654-BSD1	LCS Dup	10/28/20

Batch ID: BJ01690 **Preparation Method:** EPA 5035A **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-03RE1	R-2	10/28/20
20J1088-04RE1	R-3	10/28/20
BJ01690-BLK1	Blank	10/29/20
BJ01690-BLK2	Blank	10/29/20
BJ01690-BS1	LCS	10/29/20
BJ01690-BSD1	LCS Dup	10/29/20

Batch ID: BJ01691 **Preparation Method:** EPA 5035A **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-02RE1	R-1	10/28/20
BJ01691-BLK1	Blank	10/29/20



BJ01691-BLK2	Blank	10/29/20
BJ01691-BS1	LCS	10/29/20
BJ01691-BSD1	LCS Dup	10/29/20

Batch ID: BJ01708 **Preparation Method:** EPA 3550C **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-02	R-1	10/29/20

Batch ID: BJ01732 **Preparation Method:** EPA 5035A **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-02	R-1	10/29/20
BJ01732-BLK1	Blank	10/29/20
BJ01732-DUP1	Duplicate	10/29/20
BJ01732-MS1	Matrix Spike	10/29/20
BJ01732-SRM1	Reference	10/29/20

Batch ID: BJ01787 **Preparation Method:** EPA 5030B **Prepared By:** CLO

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-06	R-1	10/30/20
BJ01787-BLK1	Blank	10/30/20
BJ01787-SRM1	Reference	10/30/20

Batch ID: BJ01841 **Preparation Method:** EPA 5030B **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-05	C	10/29/20
20J1088-06	R-1	10/29/20
20J1088-07	R-2	10/29/20
20J1088-08	R-3	10/29/20
20J1088-09	Trip Blank	10/29/20
BJ01841-BLK1	Blank	10/29/20
BJ01841-BS1	LCS	10/29/20
BJ01841-BSD1	LCS Dup	10/29/20

Batch ID: BK00137 **Preparation Method:** EPA 5030B **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20J1088-07RE1	R-2	10/29/20
BK00137-BLK1	Blank	11/03/20
BK00137-BS1	LCS	11/03/20
BK00137-BSD1	LCS Dup	11/03/20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01654 - EPA 5035A

Blank (BJ01654-BLK1)

Prepared & Analyzed: 10/28/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,1-Dichloroethylene	ND	0.0050	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.0050	"
1,2-Dibromoethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
1,4-Dioxane	ND	0.10	"
2-Butanone	ND	0.0050	"
2-Hexanone	ND	0.0050	"
4-Methyl-2-pentanone	ND	0.0050	"
Acetone	ND	0.010	"
Acrolein	ND	0.010	"
Acrylonitrile	ND	0.0050	"
Benzene	ND	0.0050	"
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
Carbon disulfide	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
cis-1,2-Dichloroethylene	ND	0.0050	"
cis-1,3-Dichloropropylene	ND	0.0050	"
Cyclohexane	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
Dibromomethane	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
Ethyl Benzene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
Methyl acetate	ND	0.0050	"
Methyl tert-butyl ether (MTBE)	ND	0.0050	"
Methylcyclohexane	ND	0.0050	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01654 - EPA 5035A

Blank (BJ01654-BLK1)

Prepared & Analyzed: 10/28/2020

Methylene chloride	ND	0.010	mg/kg wet
n-Butylbenzene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
o-Xylene	ND	0.0050	"
p- & m- Xylenes	ND	0.010	"
p-Isopropyltoluene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
tert-Butyl alcohol (TBA)	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Tetrachloroethylene	ND	0.0050	"
Toluene	ND	0.0050	"
trans-1,2-Dichloroethylene	ND	0.0050	"
trans-1,3-Dichloropropylene	ND	0.0050	"
Trichloroethylene	ND	0.0050	"
Trichlorofluoromethane	ND	0.0050	"
Vinyl Chloride	ND	0.0050	"
Xylenes, Total	ND	0.015	"

Surrogate: SURRE: 1,2-Dichloroethane-d4	49.8	ug/L	50.0	99.6	77-125
Surrogate: SURRE: Toluene-d8	50.8	"	50.0	102	85-120
Surrogate: SURRE: p-Bromofluorobenzene	50.5	"	50.0	101	76-130

Blank (BJ01654-BLK2)

Prepared & Analyzed: 10/28/2020

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	10	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	1.0	"
Acrolein	ND	1.0	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01654 - EPA 5035A

Blank (BJ01654-BLK2)

Prepared & Analyzed: 10/28/2020

Bromochloromethane	ND	0.50	mg/kg wet								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	49.3		ug/L	50.0		98.6	77-125				
Surrogate: SURR: Toluene-d8	51.1		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.7		"	50.0		99.5	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01654 - EPA 5035A											
LCS (BJ01654-BS1)						Prepared & Analyzed: 10/28/2020					
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.9	75-129				
1,1,1-Trichloroethane	51		"	50.0		102	71-137				
1,1,2,2-Tetrachloroethane	52		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52		"	50.0		105	58-146				
1,1,2-Trichloroethane	49		"	50.0		98.0	83-123				
1,1-Dichloroethane	45		"	50.0		90.0	75-130				
1,1-Dichloroethylene	48		"	50.0		95.8	64-137				
1,2,3-Trichlorobenzene	60		"	50.0		121	81-140				
1,2,3-Trichloropropane	55		"	50.0		110	81-126				
1,2,4-Trichlorobenzene	61		"	50.0		122	80-141				
1,2,4-Trimethylbenzene	56		"	50.0		112	84-125				
1,2-Dibromo-3-chloropropane	51		"	50.0		102	74-142				
1,2-Dibromoethane	52		"	50.0		105	86-123				
1,2-Dichlorobenzene	53		"	50.0		106	85-122				
1,2-Dichloroethane	46		"	50.0		91.3	71-133				
1,2-Dichloropropane	45		"	50.0		90.7	81-122				
1,3,5-Trimethylbenzene	55		"	50.0		109	82-126				
1,3-Dichlorobenzene	55		"	50.0		110	84-124				
1,4-Dichlorobenzene	55		"	50.0		110	84-124				
1,4-Dioxane	700		"	1050		67.0	10-228				
2-Butanone	49		"	50.0		98.8	58-147				
2-Hexanone	50		"	50.0		99.5	70-139				
4-Methyl-2-pentanone	48		"	50.0		95.3	72-132				
Acetone	40		"	50.0		80.3	36-155				
Acrolein	13		"	50.0		26.9	10-238				
Acrylonitrile	48		"	50.0		95.4	66-141				
Benzene	47		"	50.0		95.0	77-127				
Bromochloromethane	46		"	50.0		91.7	74-129				
Bromodichloromethane	49		"	50.0		97.9	81-124				
Bromoform	51		"	50.0		101	80-136				
Bromomethane	43		"	50.0		85.3	32-177				
Carbon disulfide	50		"	50.0		100	10-136				
Carbon tetrachloride	49		"	50.0		97.0	66-143				
Chlorobenzene	51		"	50.0		101	86-120				
Chloroethane	46		"	50.0		91.6	51-142				
Chloroform	50		"	50.0		99.1	76-131				
Chloromethane	35		"	50.0		70.2	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		91.0	74-132				
cis-1,3-Dichloropropylene	47		"	50.0		94.4	81-129				
Cyclohexane	51		"	50.0		102	70-130				
Dibromochloromethane	52		"	50.0		104	10-200				
Dibromomethane	49		"	50.0		97.4	83-124				
Dichlorodifluoromethane	44		"	50.0		88.9	28-158				
Ethyl Benzene	51		"	50.0		102	84-125				
Hexachlorobutadiene	62		"	50.0		123	83-133				
Isopropylbenzene	54		"	50.0		108	81-127				
Methyl acetate	43		"	50.0		85.8	41-143				
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias			
Methylcyclohexane	49		"	50.0		98.1	70-130				
Methylene chloride	43		"	50.0		85.4	57-141				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01654 - EPA 5035A											
LCS (BJ01654-BS1)						Prepared & Analyzed: 10/28/2020					
n-Butylbenzene	53		ug/L	50.0		106	80-130				
n-Propylbenzene	53		"	50.0		106	74-136				
o-Xylene	50		"	50.0		100	83-123				
p- & m- Xylenes	100		"	100		101	82-128				
p-Isopropyltoluene	57		"	50.0		115	85-125				
sec-Butylbenzene	57		"	50.0		114	83-125				
Styrene	53		"	50.0		106	86-126				
tert-Butyl alcohol (TBA)	13		"	250		5.15	70-130	Low Bias			
tert-Butylbenzene	47		"	50.0		94.8	80-127				
Tetrachloroethylene	51		"	50.0		102	80-129				
Toluene	50		"	50.0		99.2	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		99.1	72-132				
trans-1,3-Dichloropropylene	45		"	50.0		90.6	78-132				
Trichloroethylene	51		"	50.0		103	84-123				
Trichlorofluoromethane	42		"	50.0		84.5	62-140				
Vinyl Chloride	42		"	50.0		84.9	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.3		"	50.0		98.6	77-125				
Surrogate: SURR: Toluene-d8	50.5		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.0		"	50.0		102	76-130				
LCS Dup (BJ01654-BSD1)						Prepared & Analyzed: 10/28/2020					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		3.85	30	
1,1,1-Trichloroethane	53		"	50.0		106	71-137		3.64	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	79-129		3.70	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	58-146		1.40	30	
1,1,2-Trichloroethane	51		"	50.0		102	83-123		4.16	30	
1,1-Dichloroethane	46		"	50.0		92.5	75-130		2.65	30	
1,1-Dichloroethylene	50		"	50.0		99.3	64-137		3.63	30	
1,2,3-Trichlorobenzene	61		"	50.0		123	81-140		1.48	30	
1,2,3-Trichloropropane	58		"	50.0		115	81-126		4.31	30	
1,2,4-Trichlorobenzene	62		"	50.0		124	80-141		1.70	30	
1,2,4-Trimethylbenzene	57		"	50.0		115	84-125		2.04	30	
1,2-Dibromo-3-chloropropane	53		"	50.0		106	74-142		3.63	30	
1,2-Dibromoethane	54		"	50.0		109	86-123		3.58	30	
1,2-Dichlorobenzene	55		"	50.0		110	85-122		2.89	30	
1,2-Dichloroethane	47		"	50.0		93.5	71-133		2.32	30	
1,2-Dichloropropane	47		"	50.0		93.5	81-122		3.02	30	
1,3,5-Trimethylbenzene	56		"	50.0		113	82-126		3.39	30	
1,3-Dichlorobenzene	57		"	50.0		114	84-124		3.07	30	
1,4-Dichlorobenzene	57		"	50.0		113	84-124		3.30	30	
1,4-Dioxane	730		"	1050		69.6	10-228		3.74	30	
2-Butanone	53		"	50.0		107	58-147		7.67	30	
2-Hexanone	52		"	50.0		104	70-139		4.65	30	
4-Methyl-2-pentanone	50		"	50.0		99.3	72-132		4.15	30	
Acetone	43		"	50.0		86.3	36-155		7.20	30	
Acrolein	14		"	50.0		27.6	10-238		2.57	30	
Acrylonitrile	50		"	50.0		99.5	66-141		4.23	30	
Benzene	49		"	50.0		98.0	77-127		3.17	30	
Bromochloromethane	47		"	50.0		94.0	74-129		2.56	30	
Bromodichloromethane	51		"	50.0		102	81-124		3.71	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01654 - EPA 5035A

LCS Dup (BJ01654-BSD1)

Prepared & Analyzed: 10/28/2020

Bromoform	53		ug/L	50.0		106	80-136		4.21	30	
Bromomethane	46		"	50.0		92.5	32-177		8.10	30	
Carbon disulfide	52		"	50.0		104	10-136		3.74	30	
Carbon tetrachloride	50		"	50.0		100	66-143		3.10	30	
Chlorobenzene	52		"	50.0		104	86-120		3.15	30	
Chloroethane	48		"	50.0		96.1	51-142		4.77	30	
Chloroform	51		"	50.0		101	76-131		2.06	30	
Chloromethane	36		"	50.0		71.4	49-132		1.70	30	
cis-1,2-Dichloroethylene	47		"	50.0		93.8	74-132		3.03	30	
cis-1,3-Dichloropropylene	49		"	50.0		97.7	81-129		3.35	30	
Cyclohexane	53		"	50.0		106	70-130		3.27	30	
Dibromochloromethane	54		"	50.0		107	10-200		3.62	30	
Dibromomethane	51		"	50.0		102	83-124		4.24	30	
Dichlorodifluoromethane	45		"	50.0		90.8	28-158		2.20	30	
Ethyl Benzene	53		"	50.0		106	84-125		3.55	30	
Hexachlorobutadiene	63		"	50.0		127	83-133		2.93	30	
Isopropylbenzene	55		"	50.0		111	81-127		2.86	30	
Methyl acetate	45		"	50.0		89.3	41-143		3.97	30	
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias		30	
Methylcyclohexane	51		"	50.0		103	70-130		4.47	30	
Methylene chloride	44		"	50.0		88.1	57-141		3.16	30	
n-Butylbenzene	55		"	50.0		110	80-130		3.48	30	
n-Propylbenzene	55		"	50.0		109	74-136		2.41	30	
o-Xylene	52		"	50.0		103	83-123		2.99	30	
p- & m- Xylenes	100		"	100		105	82-128		3.49	30	
p-Isopropyltoluene	59		"	50.0		118	85-125		2.84	30	
sec-Butylbenzene	59		"	50.0		118	83-125		3.15	30	
Styrene	55		"	50.0		110	86-126		3.51	30	
tert-Butyl alcohol (TBA)	14		"	250		5.47	70-130	Low Bias	6.03	30	
tert-Butylbenzene	49		"	50.0		97.8	80-127		3.14	30	
Tetrachloroethylene	53		"	50.0		106	80-129		3.67	30	
Toluene	52		"	50.0		104	85-121		4.36	30	
trans-1,2-Dichloroethylene	51		"	50.0		101	72-132		2.18	30	
trans-1,3-Dichloropropylene	47		"	50.0		94.6	78-132		4.23	30	
Trichloroethylene	53		"	50.0		107	84-123		3.97	30	
Trichlorofluoromethane	44		"	50.0		87.9	62-140		3.97	30	
Vinyl Chloride	45		"	50.0		89.7	52-130		5.45	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	49.2		"	50.0		98.3	77-125				
Surrogate: SURR: Toluene-d8	50.7		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.0		"	50.0		102	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01690 - EPA 5035A											
Blank (BJ01690-BLK1)										Prepared & Analyzed: 10/29/2020	
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01690 - EPA 5035A

Blank (BJ01690-BLK1)

Prepared & Analyzed: 10/29/2020

n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	"
o-Xylene	ND	0.0050	"
p- & m- Xylenes	ND	0.010	"
p-Isopropyltoluene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
tert-Butyl alcohol (TBA)	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Tetrachloroethylene	ND	0.0050	"
Toluene	ND	0.0050	"
trans-1,2-Dichloroethylene	ND	0.0050	"
trans-1,3-Dichloropropylene	ND	0.0050	"
Trichloroethylene	ND	0.0050	"
Trichlorofluoromethane	ND	0.0050	"
Vinyl Chloride	ND	0.0050	"
Xylenes, Total	ND	0.015	"

Surrogate: SURR: 1,2-Dichloroethane-d4	50.4	ug/L	50.0	101	77-125
Surrogate: SURR: Toluene-d8	48.7	"	50.0	97.4	85-120
Surrogate: SURR: p-Bromofluorobenzene	51.1	"	50.0	102	76-130

Blank (BJ01690-BLK2)

Prepared & Analyzed: 10/29/2020

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	10	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	1.0	"
Acrolein	ND	1.0	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromochloromethane	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01690 - EPA 5035A

Blank (BJ01690-BLK2)

Prepared & Analyzed: 10/29/2020

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	50.4		ug/L	50.0		101	77-125				
Surrogate: SURR: Toluene-d8	48.5		"	50.0		96.9	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.3		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01690 - EPA 5035A											
LCS (BJ01690-BS1)						Prepared & Analyzed: 10/29/2020					
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		107	75-129				
1,1,1-Trichloroethane	54		"	50.0		108	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		107	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	51		"	50.0		102	75-130				
1,1-Dichloroethylene	52		"	50.0		105	64-137				
1,2,3-Trichlorobenzene	57		"	50.0		113	81-140				
1,2,3-Trichloropropane	50		"	50.0		100	81-126				
1,2,4-Trichlorobenzene	58		"	50.0		116	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	43		"	50.0		86.6	74-142				
1,2-Dibromoethane	54		"	50.0		107	86-123				
1,2-Dichlorobenzene	52		"	50.0		103	85-122				
1,2-Dichloroethane	52		"	50.0		104	71-133				
1,2-Dichloropropane	51		"	50.0		103	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		107	82-126				
1,3-Dichlorobenzene	51		"	50.0		103	84-124				
1,4-Dichlorobenzene	53		"	50.0		106	84-124				
1,4-Dioxane	650		"	1050		61.7	10-228				
2-Butanone	54		"	50.0		108	58-147				
2-Hexanone	46		"	50.0		92.3	70-139				
4-Methyl-2-pentanone	47		"	50.0		93.2	72-132				
Acetone	40		"	50.0		80.6	36-155				
Acrolein	24		"	50.0		47.1	10-238				
Acrylonitrile	48		"	50.0		96.0	66-141				
Benzene	53		"	50.0		107	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	53		"	50.0		107	81-124				
Bromoform	47		"	50.0		93.5	80-136				
Bromomethane	51		"	50.0		103	32-177				
Carbon disulfide	55		"	50.0		111	10-136				
Carbon tetrachloride	52		"	50.0		104	66-143				
Chlorobenzene	52		"	50.0		103	86-120				
Chloroethane	51		"	50.0		101	51-142				
Chloroform	52		"	50.0		104	76-131				
Chloromethane	46		"	50.0		91.3	49-132				
cis-1,2-Dichloroethylene	53		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	49		"	50.0		98.1	81-129				
Cyclohexane	52		"	50.0		104	70-130				
Dibromochloromethane	48		"	50.0		96.8	10-200				
Dibromomethane	51		"	50.0		102	83-124				
Dichlorodifluoromethane	40		"	50.0		80.9	28-158				
Ethyl Benzene	54		"	50.0		109	84-125				
Hexachlorobutadiene	53		"	50.0		106	83-133				
Isopropylbenzene	53		"	50.0		105	81-127				
Methyl acetate	46		"	50.0		91.1	41-143				
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias			
Methylcyclohexane	53		"	50.0		106	70-130				
Methylene chloride	56		"	50.0		111	57-141				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01690 - EPA 5035A											
LCS (BJ01690-BS1)						Prepared & Analyzed: 10/29/2020					
n-Butylbenzene	51		ug/L	50.0		102	80-130				
n-Propylbenzene	52		"	50.0		104	74-136				
o-Xylene	55		"	50.0		111	83-123				
p- & m- Xylenes	96		"	100		96.0	82-128				
p-Isopropyltoluene	55		"	50.0		111	85-125				
sec-Butylbenzene	56		"	50.0		112	83-125				
Styrene	57		"	50.0		114	86-126				
tert-Butyl alcohol (TBA)	51		"	250		20.2	70-130	Low Bias			
tert-Butylbenzene	53		"	50.0		107	80-127				
Tetrachloroethylene	56		"	50.0		111	80-129				
Toluene	53		"	50.0		106	85-121				
trans-1,2-Dichloroethylene	54		"	50.0		108	72-132				
trans-1,3-Dichloropropylene	48		"	50.0		96.2	78-132				
Trichloroethylene	52		"	50.0		104	84-123				
Trichlorofluoromethane	51		"	50.0		102	62-140				
Vinyl Chloride	48		"	50.0		96.4	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.9		"	50.0		99.8	77-125				
Surrogate: SURR: Toluene-d8	49.2		"	50.0		98.4	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.9		"	50.0		99.8	76-130				
LCS Dup (BJ01690-BSD1)						Prepared & Analyzed: 10/29/2020					
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		105	75-129		1.79	30	
1,1,1-Trichloroethane	53		"	50.0		107	71-137		0.878	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		104	79-129		1.49	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		105	58-146		1.41	30	
1,1,2-Trichloroethane	50		"	50.0		99.1	83-123		2.73	30	
1,1-Dichloroethane	51		"	50.0		101	75-130		0.905	30	
1,1-Dichloroethylene	52		"	50.0		104	64-137		0.826	30	
1,2,3-Trichlorobenzene	54		"	50.0		108	81-140		4.98	30	
1,2,3-Trichloropropane	50		"	50.0		99.4	81-126		0.841	30	
1,2,4-Trichlorobenzene	56		"	50.0		111	80-141		3.75	30	
1,2,4-Trimethylbenzene	53		"	50.0		107	84-125		2.02	30	
1,2-Dibromo-3-chloropropane	42		"	50.0		84.4	74-142		2.53	30	
1,2-Dibromoethane	53		"	50.0		105	86-123		1.62	30	
1,2-Dichlorobenzene	51		"	50.0		102	85-122		1.54	30	
1,2-Dichloroethane	52		"	50.0		103	71-133		1.37	30	
1,2-Dichloropropane	50		"	50.0		101	81-122		1.89	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		1.71	30	
1,3-Dichlorobenzene	50		"	50.0		101	84-124		1.71	30	
1,4-Dichlorobenzene	52		"	50.0		104	84-124		1.77	30	
1,4-Dioxane	600		"	1050		57.1	10-228		7.73	30	
2-Butanone	50		"	50.0		99.3	58-147		8.73	30	
2-Hexanone	46		"	50.0		91.3	70-139		1.11	30	
4-Methyl-2-pentanone	47		"	50.0		93.7	72-132		0.492	30	
Acetone	41		"	50.0		81.8	36-155		1.38	30	
Acrolein	24		"	50.0		47.4	10-238		0.508	30	
Acrylonitrile	50		"	50.0		99.1	66-141		3.18	30	
Benzene	53		"	50.0		107	77-127		0.225	30	
Bromochloromethane	51		"	50.0		103	74-129		1.36	30	
Bromodichloromethane	52		"	50.0		104	81-124		2.37	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01690 - EPA 5035A											
LCS Dup (BJ01690-BSD1)						Prepared & Analyzed: 10/29/2020					
Bromoform	46		ug/L	50.0		91.8	80-136		1.77	30	
Bromomethane	53		"	50.0		106	32-177		3.16	30	
Carbon disulfide	55		"	50.0		110	10-136		1.20	30	
Carbon tetrachloride	51		"	50.0		102	66-143		1.48	30	
Chlorobenzene	51		"	50.0		102	86-120		1.42	30	
Chloroethane	52		"	50.0		104	51-142		2.27	30	
Chloroform	52		"	50.0		103	76-131		1.08	30	
Chloromethane	45		"	50.0		90.2	49-132		1.15	30	
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132		0.0953	30	
cis-1,3-Dichloropropylene	48		"	50.0		95.9	81-129		2.27	30	
Cyclohexane	51		"	50.0		103	70-130		1.29	30	
Dibromochloromethane	48		"	50.0		95.6	10-200		1.27	30	
Dibromomethane	51		"	50.0		101	83-124		0.552	30	
Dichlorodifluoromethane	38		"	50.0		75.9	28-158		6.40	30	
Ethyl Benzene	53		"	50.0		106	84-125		2.20	30	
Hexachlorobutadiene	52		"	50.0		104	83-133		2.14	30	
Isopropylbenzene	52		"	50.0		104	81-127		1.13	30	
Methyl acetate	46		"	50.0		92.6	41-143		1.59	30	
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias		30	
Methylcyclohexane	51		"	50.0		103	70-130		2.51	30	
Methylene chloride	55		"	50.0		111	57-141		0.523	30	
n-Butylbenzene	50		"	50.0		100	80-130		1.72	30	
n-Propylbenzene	52		"	50.0		103	74-136		1.06	30	
o-Xylene	54		"	50.0		109	83-123		1.97	30	
p- & m- Xylenes	94		"	100		93.8	82-128		2.41	30	
p-Isopropyltoluene	54		"	50.0		109	85-125		1.97	30	
sec-Butylbenzene	55		"	50.0		110	83-125		1.15	30	
Styrene	56		"	50.0		112	86-126		1.80	30	
tert-Butyl alcohol (TBA)	49		"	250		19.4	70-130	Low Bias	4.14	30	
tert-Butylbenzene	52		"	50.0		105	80-127		1.81	30	
Tetrachloroethylene	55		"	50.0		110	80-129		1.26	30	
Toluene	52		"	50.0		103	85-121		2.56	30	
trans-1,2-Dichloroethylene	54		"	50.0		107	72-132		1.02	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.9	78-132		2.42	30	
Trichloroethylene	51		"	50.0		102	84-123		2.54	30	
Trichlorofluoromethane	50		"	50.0		101	62-140		0.910	30	
Vinyl Chloride	48		"	50.0		97.0	52-130		0.558	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	49.7		"	50.0		99.4	77-125				
Surrogate: SURR: Toluene-d8	49.0		"	50.0		97.9	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.2		"	50.0		100	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01691 - EPA 5035A											
Blank (BJ01691-BLK1)										Prepared & Analyzed: 10/29/2020	
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01691 - EPA 5035A

Blank (BJ01691-BLK1)

Prepared & Analyzed: 10/29/2020

n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	"
o-Xylene	ND	0.0050	"
p- & m- Xylenes	ND	0.010	"
p-Isopropyltoluene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
tert-Butyl alcohol (TBA)	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Tetrachloroethylene	ND	0.0050	"
Toluene	ND	0.0050	"
trans-1,2-Dichloroethylene	ND	0.0050	"
trans-1,3-Dichloropropylene	ND	0.0050	"
Trichloroethylene	ND	0.0050	"
Trichlorofluoromethane	ND	0.0050	"
Vinyl Chloride	ND	0.0050	"
Xylenes, Total	ND	0.015	"

Surrogate: SURR: 1,2-Dichloroethane-d4	49.2	ug/L	50.0	98.3	77-125
Surrogate: SURR: Toluene-d8	50.8	"	50.0	102	85-120
Surrogate: SURR: p-Bromofluorobenzene	49.7	"	50.0	99.3	76-130

Blank (BJ01691-BLK2)

Prepared & Analyzed: 10/29/2020

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	10	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	1.0	"
Acrolein	ND	1.0	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromochloromethane	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01691 - EPA 5035A

Blank (BJ01691-BLK2)

Prepared & Analyzed: 10/29/2020

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	50.2		ug/L	50.0		100	77-125				
Surrogate: SURR: Toluene-d8	50.5		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.1		"	50.0		98.2	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01691 - EPA 5035A											
LCS (BJ01691-BS1)						Prepared & Analyzed: 10/29/2020					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	54		"	50.0		108	71-137				
1,1,2,2-Tetrachloroethane	54		"	50.0		108	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		109	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	46		"	50.0		93.0	75-130				
1,1-Dichloroethylene	49		"	50.0		98.2	64-137				
1,2,3-Trichlorobenzene	62		"	50.0		123	81-140				
1,2,3-Trichloropropane	57		"	50.0		113	81-126				
1,2,4-Trichlorobenzene	63		"	50.0		127	80-141				
1,2,4-Trimethylbenzene	57		"	50.0		113	84-125				
1,2-Dibromo-3-chloropropane	53		"	50.0		107	74-142				
1,2-Dibromoethane	55		"	50.0		109	86-123				
1,2-Dichlorobenzene	54		"	50.0		109	85-122				
1,2-Dichloroethane	46		"	50.0		92.5	71-133				
1,2-Dichloropropane	46		"	50.0		92.6	81-122				
1,3,5-Trimethylbenzene	56		"	50.0		111	82-126				
1,3-Dichlorobenzene	57		"	50.0		113	84-124				
1,4-Dichlorobenzene	57		"	50.0		113	84-124				
1,4-Dioxane	690		"	1050		65.3	10-228				
2-Butanone	52		"	50.0		104	58-147				
2-Hexanone	49		"	50.0		98.7	70-139				
4-Methyl-2-pentanone	48		"	50.0		96.4	72-132				
Acetone	41		"	50.0		81.5	36-155				
Acrolein	15		"	50.0		29.3	10-238				
Acrylonitrile	49		"	50.0		98.6	66-141				
Benzene	49		"	50.0		97.4	77-127				
Bromochloromethane	47		"	50.0		94.7	74-129				
Bromodichloromethane	52		"	50.0		104	81-124				
Bromoform	58		"	50.0		117	80-136				
Bromomethane	46		"	50.0		92.2	32-177				
Carbon disulfide	55		"	50.0		110	10-136				
Carbon tetrachloride	51		"	50.0		102	66-143				
Chlorobenzene	52		"	50.0		104	86-120				
Chloroethane	47		"	50.0		94.0	51-142				
Chloroform	50		"	50.0		101	76-131				
Chloromethane	41		"	50.0		82.0	49-132				
cis-1,2-Dichloroethylene	47		"	50.0		94.0	74-132				
cis-1,3-Dichloropropylene	50		"	50.0		101	81-129				
Cyclohexane	53		"	50.0		106	70-130				
Dibromochloromethane	57		"	50.0		113	10-200				
Dibromomethane	51		"	50.0		102	83-124				
Dichlorodifluoromethane	45		"	50.0		90.7	28-158				
Ethyl Benzene	53		"	50.0		105	84-125				
Hexachlorobutadiene	63		"	50.0		127	83-133				
Isopropylbenzene	55		"	50.0		109	81-127				
Methyl acetate	43		"	50.0		85.8	41-143				
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias			
Methylcyclohexane	51		"	50.0		102	70-130				
Methylene chloride	44		"	50.0		87.2	57-141				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01691 - EPA 5035A											
LCS (BJ01691-BS1)						Prepared & Analyzed: 10/29/2020					
n-Butylbenzene	51		ug/L	50.0		102	80-130				
n-Propylbenzene	54		"	50.0		108	74-136				
o-Xylene	51		"	50.0		102	83-123				
p- & m- Xylenes	100		"	100		104	82-128				
p-Isopropyltoluene	59		"	50.0		118	85-125				
sec-Butylbenzene	59		"	50.0		117	83-125				
Styrene	55		"	50.0		109	86-126				
tert-Butyl alcohol (TBA)	2.5		"	250		0.992	70-130	Low Bias			
tert-Butylbenzene	48		"	50.0		96.7	80-127				
Tetrachloroethylene	54		"	50.0		108	80-129				
Toluene	51		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		101	72-132				
trans-1,3-Dichloropropylene	49		"	50.0		98.8	78-132				
Trichloroethylene	53		"	50.0		106	84-123				
Trichlorofluoromethane	45		"	50.0		90.3	62-140				
Vinyl Chloride	45		"	50.0		89.5	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.4		"	50.0		98.8	77-125				
Surrogate: SURR: Toluene-d8	50.5		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.9		"	50.0		102	76-130				
LCS Dup (BJ01691-BSD1)						Prepared & Analyzed: 10/29/2020					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		1.30	30	
1,1,1-Trichloroethane	53		"	50.0		106	71-137		1.77	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129		1.07	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	58-146		1.05	30	
1,1,2-Trichloroethane	51		"	50.0		102	83-123		0.0393	30	
1,1-Dichloroethane	46		"	50.0		91.8	75-130		1.32	30	
1,1-Dichloroethylene	49		"	50.0		97.1	64-137		1.11	30	
1,2,3-Trichlorobenzene	62		"	50.0		123	81-140		0.211	30	
1,2,3-Trichloropropane	57		"	50.0		114	81-126		0.966	30	
1,2,4-Trichlorobenzene	63		"	50.0		126	80-141		0.221	30	
1,2,4-Trimethylbenzene	56		"	50.0		113	84-125		0.549	30	
1,2-Dibromo-3-chloropropane	53		"	50.0		106	74-142		0.658	30	
1,2-Dibromoethane	54		"	50.0		108	86-123		0.661	30	
1,2-Dichlorobenzene	54		"	50.0		108	85-122		1.01	30	
1,2-Dichloroethane	47		"	50.0		93.2	71-133		0.797	30	
1,2-Dichloropropane	46		"	50.0		91.7	81-122		0.998	30	
1,3,5-Trimethylbenzene	55		"	50.0		111	82-126		0.324	30	
1,3-Dichlorobenzene	56		"	50.0		113	84-124		0.532	30	
1,4-Dichlorobenzene	56		"	50.0		113	84-124		0.265	30	
1,4-Dioxane	680		"	1050		64.3	10-228		1.55	30	
2-Butanone	52		"	50.0		105	58-147		0.921	30	
2-Hexanone	50		"	50.0		99.6	70-139		0.908	30	
4-Methyl-2-pentanone	48		"	50.0		96.2	72-132		0.187	30	
Acetone	41		"	50.0		82.4	36-155		1.07	30	
Acrolein	15		"	50.0		30.2	10-238		3.16	30	
Acrylonitrile	50		"	50.0		100	66-141		1.85	30	
Benzene	48		"	50.0		96.9	77-127		0.556	30	
Bromochloromethane	46		"	50.0		91.3	74-129		3.61	30	
Bromodichloromethane	51		"	50.0		102	81-124		1.79	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01691 - EPA 5035A											
LCS Dup (BJ01691-BSD1)						Prepared & Analyzed: 10/29/2020					
Bromoform	57		ug/L	50.0		114	80-136		2.34	30	
Bromomethane	47		"	50.0		93.5	32-177		1.38	30	
Carbon disulfide	54		"	50.0		108	10-136		2.36	30	
Carbon tetrachloride	51		"	50.0		102	66-143		0.745	30	
Chlorobenzene	51		"	50.0		102	86-120		2.30	30	
Chloroethane	48		"	50.0		95.6	51-142		1.69	30	
Chloroform	50		"	50.0		99.8	76-131		1.08	30	
Chloromethane	41		"	50.0		81.4	49-132		0.710	30	
cis-1,2-Dichloroethylene	46		"	50.0		92.8	74-132		1.31	30	
cis-1,3-Dichloropropylene	49		"	50.0		98.8	81-129		2.08	30	
Cyclohexane	52		"	50.0		104	70-130		1.62	30	
Dibromochloromethane	55		"	50.0		110	10-200		2.47	30	
Dibromomethane	50		"	50.0		101	83-124		1.57	30	
Dichlorodifluoromethane	43		"	50.0		86.5	28-158		4.76	30	
Ethyl Benzene	51		"	50.0		103	84-125		2.13	30	
Hexachlorobutadiene	63		"	50.0		125	83-133		1.40	30	
Isopropylbenzene	54		"	50.0		108	81-127		0.680	30	
Methyl acetate	44		"	50.0		87.4	41-143		1.76	30	
Methyl tert-butyl ether (MTBE)	0.0		"	50.0			74-131	Low Bias		30	
Methylcyclohexane	50		"	50.0		100	70-130		1.45	30	
Methylene chloride	43		"	50.0		86.1	57-141		1.27	30	
n-Butylbenzene	51		"	50.0		102	80-130		0.138	30	
n-Propylbenzene	54		"	50.0		108	74-136		0.00	30	
o-Xylene	50		"	50.0		101	83-123		1.66	30	
p- & m- Xylenes	100		"	100		102	82-128		1.71	30	
p-Isopropyltoluene	58		"	50.0		117	85-125		0.987	30	
sec-Butylbenzene	58		"	50.0		116	83-125		0.890	30	
Styrene	54		"	50.0		107	86-126		1.79	30	
tert-Butyl alcohol (TBA)	0.0		"	250			70-130	Low Bias		30	
tert-Butylbenzene	48		"	50.0		95.8	80-127		0.852	30	
Tetrachloroethylene	53		"	50.0		105	80-129		2.05	30	
Toluene	50		"	50.0		100	85-121		1.25	30	
trans-1,2-Dichloroethylene	50		"	50.0		99.4	72-132		1.38	30	
trans-1,3-Dichloropropylene	49		"	50.0		97.5	78-132		1.32	30	
Trichloroethylene	52		"	50.0		104	84-123		1.98	30	
Trichlorofluoromethane	46		"	50.0		91.2	62-140		1.06	30	
Vinyl Chloride	44		"	50.0		89.0	52-130		0.627	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	49.1		"	50.0		98.2	77-125				
Surrogate: SURR: Toluene-d8	50.2		"	50.0		100	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.5		"	50.0		101	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01841 - EPA 5030B											
Blank (BJ01841-BLK1)										Prepared & Analyzed: 10/29/2020	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01841 - EPA 5030B

Blank (BJ01841-BLK1)

Prepared & Analyzed: 10/29/2020

Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: SURR: Toluene-d8	9.89		"	10.0		98.9	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.44		"	10.0		94.4	79-122				

LCS (BJ01841-BS1)

Prepared & Analyzed: 10/29/2020

1,1,1,2-Tetrachloroethane	10.3		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11.3		"	10.0		113	78-136				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.6		"	10.0		146	54-165				
1,1,2-Trichloroethane	9.85		"	10.0		98.5	82-123				
1,1-Dichloroethane	10.6		"	10.0		106	82-129				
1,1-Dichloroethylene	12.4		"	10.0		124	68-138				
1,1-Dichloropropylene	12.0		"	10.0		120	83-133				
1,2,3-Trichlorobenzene	9.87		"	10.0		98.7	76-136				
1,2,3-Trichloropropane	9.82		"	10.0		98.2	77-128				
1,2,4,5-Tetramethylbenzene	10.7		"	10.0		107	85-140				
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137				
1,2,4-Trimethylbenzene	11.4		"	10.0		114	82-132				
1,2-Dibromo-3-chloropropane	9.64		"	10.0		96.4	45-147				
1,2-Dibromoethane	9.86		"	10.0		98.6	83-124				
1,2-Dichlorobenzene	10.9		"	10.0		109	79-123				
1,2-Dichloroethane	9.66		"	10.0		96.6	73-132				
1,2-Dichloropropane	10.4		"	10.0		104	78-126				
1,3,5-Trimethylbenzene	11.6		"	10.0		116	80-131				
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122				
1,3-Dichloropropane	9.67		"	10.0		96.7	81-125				
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124				
2,2-Dichloropropane	11.4		"	10.0		114	56-150				
2-Butanone	7.07		"	10.0		70.7	49-152				
2-Chlorotoluene	11.2		"	10.0		112	79-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01841 - EPA 5030B											
LCS (BJ01841-BS1)						Prepared & Analyzed: 10/29/2020					
2-Hexanone	8.36		ug/L	10.0		83.6	51-146				
4-Chlorotoluene	11.0		"	10.0		110	79-128				
4-Methyl-2-pentanone	8.62		"	10.0		86.2	57-145				
Acetone	10.7		"	10.0		107	14-150				
Benzene	11.5		"	10.0		115	85-126				
Bromobenzene	10.7		"	10.0		107	78-129				
Bromochloromethane	10.2		"	10.0		102	77-128				
Bromodichloromethane	9.92		"	10.0		99.2	79-128				
Bromoform	9.57		"	10.0		95.7	78-133				
Bromomethane	5.62		"	10.0		56.2	43-168				
Carbon disulfide	12.4		"	10.0		124	68-146				
Carbon tetrachloride	11.7		"	10.0		117	77-141				
Chlorobenzene	10.9		"	10.0		109	88-120				
Chloroethane	12.8		"	10.0		128	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	9.28		"	10.0		92.8	43-155				
cis-1,2-Dichloroethylene	10.9		"	10.0		109	83-129				
cis-1,3-Dichloropropylene	9.79		"	10.0		97.9	80-131				
Dibromochloromethane	9.68		"	10.0		96.8	80-130				
Dibromomethane	9.46		"	10.0		94.6	72-134				
Dichlorodifluoromethane	17.8		"	10.0		178	44-144	High Bias			
Ethyl Benzene	11.6		"	10.0		116	80-131				
Hexachlorobutadiene	10.4		"	10.0		104	67-146				
Isopropylbenzene	11.7		"	10.0		117	76-140				
Methyl tert-butyl ether (MTBE)	9.55		"	10.0		95.5	76-135				
Methylene chloride	10.6		"	10.0		106	55-137				
Naphthalene	9.09		"	10.0		90.9	70-147				
n-Butylbenzene	13.6		"	10.0		136	79-132	High Bias			
n-Propylbenzene	11.9		"	10.0		119	78-133				
o-Xylene	11.1		"	10.0		111	78-130				
p- & m- Xylenes	23.0		"	20.0		115	77-133				
p-Diethylbenzene	13.2		"	10.0		132	84-134				
p-Ethyltoluene	12.6		"	10.0		126	88-129				
p-Isopropyltoluene	11.7		"	10.0		117	81-136				
sec-Butylbenzene	12.7		"	10.0		127	79-137				
Styrene	11.1		"	10.0		111	67-132				
tert-Butylbenzene	10.2		"	10.0		102	77-138				
Tetrachloroethylene	11.6		"	10.0		116	82-131				
Toluene	11.2		"	10.0		112	80-127				
trans-1,2-Dichloroethylene	11.6		"	10.0		116	80-132				
trans-1,3-Dichloropropylene	9.06		"	10.0		90.6	78-131				
Trichloroethylene	11.0		"	10.0		110	82-128				
Trichlorofluoromethane	13.0		"	10.0		130	67-139				
Vinyl Chloride	13.7		"	10.0		137	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.06		"	10.0		90.6	69-130				
Surrogate: SURR: Toluene-d8	9.89		"	10.0		98.9	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.98		"	10.0		99.8	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ01841 - EPA 5030B											
LCS Dup (BJ01841-BSD1)						Prepared & Analyzed: 10/29/2020					
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.675	30	
1,1,1-Trichloroethane	11.3		"	10.0		113	78-136		0.620	30	
1,1,2,2-Tetrachloroethane	10.7		"	10.0		107	76-129		3.99	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.4		"	10.0		144	54-165		1.03	30	
1,1,2-Trichloroethane	10.4		"	10.0		104	82-123		5.34	30	
1,1-Dichloroethane	10.9		"	10.0		109	82-129		3.16	30	
1,1-Dichloroethylene	12.7		"	10.0		127	68-138		1.91	30	
1,1-Dichloropropylene	11.8		"	10.0		118	83-133		1.35	30	
1,2,3-Trichlorobenzene	10.1		"	10.0		101	76-136		2.01	30	
1,2,3-Trichloropropane	10.4		"	10.0		104	77-128		5.45	30	
1,2,4,5-Tetramethylbenzene	10.4		"	10.0		104	85-140		2.55	30	
1,2,4-Trichlorobenzene	10.5		"	10.0		105	76-137		4.28	30	
1,2,4-Trimethylbenzene	10.6		"	10.0		106	82-132		7.39	30	
1,2-Dibromo-3-chloropropane	9.46		"	10.0		94.6	45-147		1.88	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		4.85	30	
1,2-Dichlorobenzene	10.4		"	10.0		104	79-123		4.51	30	
1,2-Dichloroethane	10.5		"	10.0		105	73-132		8.05	30	
1,2-Dichloropropane	10.4		"	10.0		104	78-126		0.00	30	
1,3,5-Trimethylbenzene	10.6		"	10.0		106	80-131		9.25	30	
1,3-Dichlorobenzene	10.4		"	10.0		104	86-122		6.68	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		5.43	30	
1,4-Dichlorobenzene	10.2		"	10.0		102	85-124		6.64	30	
2,2-Dichloropropane	11.3		"	10.0		113	56-150		1.41	30	
2-Butanone	9.67		"	10.0		96.7	49-152		31.1	30	Non-dir.
2-Chlorotoluene	10.1		"	10.0		101	79-130		10.7	30	
2-Hexanone	9.71		"	10.0		97.1	51-146		14.9	30	
4-Chlorotoluene	10.2		"	10.0		102	79-128		7.85	30	
4-Methyl-2-pentanone	10.5		"	10.0		105	57-145		19.5	30	
Acetone	11.7		"	10.0		117	14-150		9.46	30	
Benzene	11.6		"	10.0		116	85-126		0.778	30	
Bromobenzene	10.0		"	10.0		100	78-129		6.29	30	
Bromochloromethane	11.1		"	10.0		111	77-128		7.70	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.70	30	
Bromoform	10.4		"	10.0		104	78-133		8.31	30	
Bromomethane	5.68		"	10.0		56.8	43-168		1.06	30	
Carbon disulfide	12.4		"	10.0		124	68-146		0.806	30	
Carbon tetrachloride	11.6		"	10.0		116	77-141		0.770	30	
Chlorobenzene	10.6		"	10.0		106	88-120		2.32	30	
Chloroethane	13.3		"	10.0		133	65-136		3.52	30	
Chloroform	10.9		"	10.0		109	82-128		2.98	30	
Chloromethane	9.80		"	10.0		98.0	43-155		5.45	30	
cis-1,2-Dichloroethylene	11.1		"	10.0		111	83-129		2.18	30	
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131		2.62	30	
Dibromochloromethane	10.2		"	10.0		102	80-130		5.52	30	
Dibromomethane	10.1		"	10.0		101	72-134		6.94	30	
Dichlorodifluoromethane	17.6		"	10.0		176	44-144	High Bias	1.13	30	
Ethyl Benzene	11.0		"	10.0		110	80-131		5.76	30	
Hexachlorobutadiene	9.65		"	10.0		96.5	67-146		7.96	30	
Isopropylbenzene	10.3		"	10.0		103	76-140		12.7	30	
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	76-135		17.5	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
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Batch BJ01841 - EPA 5030B

LCS Dup (BJ01841-BSD1)

Prepared & Analyzed: 10/29/2020

Methylene chloride	11.3		ug/L	10.0		113	55-137		5.94	30	
Naphthalene	9.71		"	10.0		97.1	70-147		6.60	30	
n-Butylbenzene	12.3		"	10.0		123	79-132		9.96	30	
n-Propylbenzene	10.6		"	10.0		106	78-133		11.6	30	
o-Xylene	10.6		"	10.0		106	78-130		4.81	30	
p- & m- Xylenes	21.9		"	20.0		110	77-133		4.89	30	
p-Diethylbenzene	12.1		"	10.0		121	84-134		9.00	30	
p-Ethyltoluene	11.8		"	10.0		118	88-129		6.38	30	
p-Isopropyltoluene	10.8		"	10.0		108	81-136		8.17	30	
sec-Butylbenzene	11.3		"	10.0		113	79-137		11.8	30	
Styrene	11.0		"	10.0		110	67-132		1.36	30	
tert-Butylbenzene	9.19		"	10.0		91.9	77-138		10.9	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		9.42	30	
Toluene	10.8		"	10.0		108	80-127		3.82	30	
trans-1,2-Dichloroethylene	11.8		"	10.0		118	80-132		1.37	30	
trans-1,3-Dichloropropylene	9.46		"	10.0		94.6	78-131		4.32	30	
Trichloroethylene	10.4		"	10.0		104	82-128		6.16	30	
Trichlorofluoromethane	12.5		"	10.0		125	67-139		4.00	30	
Vinyl Chloride	13.4		"	10.0		134	58-145		2.51	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: SURR: Toluene-d8	9.65		"	10.0		96.5	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.68		"	10.0		96.8	79-122				

Batch BK00137 - EPA 5030B

Blank (BK00137-BLK1)

Prepared & Analyzed: 11/03/2020

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BK00137 - EPA 5030B

Blank (BK00137-BLK1)

Prepared & Analyzed: 11/03/2020

2-Hexanone	ND	0.50	ug/L								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: SURR: Toluene-d8	9.69		"	10.0		96.9	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.79		"	10.0		97.9	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00137 - EPA 5030B											
LCS (BK00137-BS1)						Prepared & Analyzed: 11/03/2020					
1,1,1,2-Tetrachloroethane	9.34		ug/L	10.0		93.4	82-126				
1,1,1-Trichloroethane	9.71		"	10.0		97.1	78-136				
1,1,2,2-Tetrachloroethane	9.92		"	10.0		99.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165				
1,1,2-Trichloroethane	9.70		"	10.0		97.0	82-123				
1,1-Dichloroethane	9.95		"	10.0		99.5	82-129				
1,1-Dichloroethylene	10.3		"	10.0		103	68-138				
1,1-Dichloropropylene	9.95		"	10.0		99.5	83-133				
1,2,3-Trichlorobenzene	9.63		"	10.0		96.3	76-136				
1,2,3-Trichloropropane	9.40		"	10.0		94.0	77-128				
1,2,4,5-Tetramethylbenzene	10.0		"	10.0		100	85-140				
1,2,4-Trichlorobenzene	9.89		"	10.0		98.9	76-137				
1,2,4-Trimethylbenzene	10.2		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	8.87		"	10.0		88.7	45-147				
1,2-Dibromoethane	9.23		"	10.0		92.3	83-124				
1,2-Dichlorobenzene	10.2		"	10.0		102	79-123				
1,2-Dichloroethane	9.36		"	10.0		93.6	73-132				
1,2-Dichloropropane	10.1		"	10.0		101	78-126				
1,3,5-Trimethylbenzene	10.4		"	10.0		104	80-131				
1,3-Dichlorobenzene	10.1		"	10.0		101	86-122				
1,3-Dichloropropane	9.62		"	10.0		96.2	81-125				
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124				
2,2-Dichloropropane	9.90		"	10.0		99.0	56-150				
2-Butanone	10.3		"	10.0		103	49-152				
2-Chlorotoluene	10.1		"	10.0		101	79-130				
2-Hexanone	8.45		"	10.0		84.5	51-146				
4-Chlorotoluene	10.0		"	10.0		100	79-128				
4-Methyl-2-pentanone	9.44		"	10.0		94.4	57-145				
Acetone	10.6		"	10.0		106	14-150				
Benzene	10.4		"	10.0		104	85-126				
Bromobenzene	9.96		"	10.0		99.6	78-129				
Bromochloromethane	10.2		"	10.0		102	77-128				
Bromodichloromethane	9.73		"	10.0		97.3	79-128				
Bromoform	9.10		"	10.0		91.0	78-133				
Bromomethane	9.33		"	10.0		93.3	43-168				
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.61		"	10.0		96.1	77-141				
Chlorobenzene	10.0		"	10.0		100	88-120				
Chloroethane	11.2		"	10.0		112	65-136				
Chloroform	10.1		"	10.0		101	82-128				
Chloromethane	8.33		"	10.0		83.3	43-155				
cis-1,2-Dichloroethylene	10.3		"	10.0		103	83-129				
cis-1,3-Dichloropropylene	8.79		"	10.0		87.9	80-131				
Dibromochloromethane	9.48		"	10.0		94.8	80-130				
Dibromomethane	9.39		"	10.0		93.9	72-134				
Dichlorodifluoromethane	9.39		"	10.0		93.9	44-144				
Ethyl Benzene	10.4		"	10.0		104	80-131				
Hexachlorobutadiene	8.77		"	10.0		87.7	67-146				
Isopropylbenzene	10.1		"	10.0		101	76-140				
Methyl tert-butyl ether (MTBE)	9.60		"	10.0		96.0	76-135				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BK00137 - EPA 5030B

LCS (BK00137-BS1)

Prepared & Analyzed: 11/03/2020

Methylene chloride	10.4		ug/L	10.0		104	55-137				
Naphthalene	8.95		"	10.0		89.5	70-147				
n-Butylbenzene	10.8		"	10.0		108	79-132				
n-Propylbenzene	10.2		"	10.0		102	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	20.8		"	20.0		104	77-133				
p-Diethylbenzene	11.6		"	10.0		116	84-134				
p-Ethyltoluene	11.0		"	10.0		110	88-129				
p-Isopropyltoluene	10.3		"	10.0		103	81-136				
sec-Butylbenzene	11.0		"	10.0		110	79-137				
Styrene	10.5		"	10.0		105	67-132				
tert-Butylbenzene	8.91		"	10.0		89.1	77-138				
Tetrachloroethylene	9.67		"	10.0		96.7	82-131				
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	8.32		"	10.0		83.2	78-131				
Trichloroethylene	9.82		"	10.0		98.2	82-128				
Trichlorofluoromethane	10.1		"	10.0		101	67-139				
Vinyl Chloride	10.4		"	10.0		104	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.16		"	10.0		91.6	69-130				
Surrogate: SURR: Toluene-d8	9.83		"	10.0		98.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.88		"	10.0		98.8	79-122				

LCS Dup (BK00137-BSD1)

Prepared & Analyzed: 11/03/2020

1,1,1,2-Tetrachloroethane	9.75		ug/L	10.0		97.5	82-126		4.30	30	
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136		2.19	30	
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129		3.66	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165		1.74	30	
1,1,2-Trichloroethane	10.7		"	10.0		107	82-123		9.99	30	
1,1-Dichloroethane	9.80		"	10.0		98.0	82-129		1.52	30	
1,1-Dichloroethylene	10.2		"	10.0		102	68-138		0.978	30	
1,1-Dichloropropylene	9.75		"	10.0		97.5	83-133		2.03	30	
1,2,3-Trichlorobenzene	9.87		"	10.0		98.7	76-136		2.46	30	
1,2,3-Trichloropropane	9.87		"	10.0		98.7	77-128		4.88	30	
1,2,4,5-Tetramethylbenzene	9.39		"	10.0		93.9	85-140		6.79	30	
1,2,4-Trichlorobenzene	9.96		"	10.0		99.6	76-137		0.705	30	
1,2,4-Trimethylbenzene	9.21		"	10.0		92.1	82-132		10.5	30	
1,2-Dibromo-3-chloropropane	9.77		"	10.0		97.7	45-147		9.66	30	
1,2-Dibromoethane	10.6		"	10.0		106	83-124		14.3	30	
1,2-Dichlorobenzene	9.88		"	10.0		98.8	79-123		3.58	30	
1,2-Dichloroethane	10.5		"	10.0		105	73-132		11.7	30	
1,2-Dichloropropane	9.85		"	10.0		98.5	78-126		2.51	30	
1,3,5-Trimethylbenzene	9.19		"	10.0		91.9	80-131		12.1	30	
1,3-Dichlorobenzene	9.41		"	10.0		94.1	86-122		7.37	30	
1,3-Dichloropropane	10.5		"	10.0		105	81-125		8.94	30	
1,4-Dichlorobenzene	9.53		"	10.0		95.3	85-124		5.71	30	
2,2-Dichloropropane	9.66		"	10.0		96.6	56-150		2.45	30	
2-Butanone	11.7		"	10.0		117	49-152		12.8	30	
2-Chlorotoluene	9.04		"	10.0		90.4	79-130		11.3	30	
2-Hexanone	10.6		"	10.0		106	51-146		22.7	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00137 - EPA 5030B											
LCS Dup (BK00137-BSD1)						Prepared & Analyzed: 11/03/2020					
4-Chlorotoluene	8.85		ug/L	10.0		88.5	79-128		12.3	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		18.2	30	
Acetone	12.2		"	10.0		122	14-150		14.3	30	
Benzene	10.3		"	10.0		103	85-126		1.16	30	
Bromobenzene	9.32		"	10.0		93.2	78-129		6.64	30	
Bromochloromethane	11.0		"	10.0		110	77-128		7.27	30	
Bromodichloromethane	9.84		"	10.0		98.4	79-128		1.12	30	
Bromoform	10.4		"	10.0		104	78-133		13.2	30	
Bromomethane	8.87		"	10.0		88.7	43-168		5.05	30	
Carbon disulfide	9.86		"	10.0		98.6	68-146		2.90	30	
Carbon tetrachloride	9.52		"	10.0		95.2	77-141		0.941	30	
Chlorobenzene	9.93		"	10.0		99.3	88-120		1.20	30	
Chloroethane	10.4		"	10.0		104	65-136		8.04	30	
Chloroform	10.3		"	10.0		103	82-128		1.37	30	
Chloromethane	8.02		"	10.0		80.2	43-155		3.79	30	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129		1.66	30	
cis-1,3-Dichloropropylene	9.70		"	10.0		97.0	80-131		9.84	30	
Dibromochloromethane	10.2		"	10.0		102	80-130		7.32	30	
Dibromomethane	10.2		"	10.0		102	72-134		8.37	30	
Dichlorodifluoromethane	9.18		"	10.0		91.8	44-144		2.26	30	
Ethyl Benzene	9.97		"	10.0		99.7	80-131		3.93	30	
Hexachlorobutadiene	8.32		"	10.0		83.2	67-146		5.27	30	
Isopropylbenzene	8.66		"	10.0		86.6	76-140		15.5	30	
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	76-135		17.0	30	
Methylene chloride	10.7		"	10.0		107	55-137		3.04	30	
Naphthalene	9.67		"	10.0		96.7	70-147		7.73	30	
n-Butylbenzene	9.75		"	10.0		97.5	79-132		10.4	30	
n-Propylbenzene	8.81		"	10.0		88.1	78-133		14.7	30	
o-Xylene	9.94		"	10.0		99.4	78-130		3.94	30	
p- & m- Xylenes	20.1		"	20.0		100	77-133		3.81	30	
p-Diethylbenzene	10.8		"	10.0		108	84-134		7.23	30	
p-Ethyltoluene	9.68		"	10.0		96.8	88-129		12.3	30	
p-Isopropyltoluene	9.11		"	10.0		91.1	81-136		11.9	30	
sec-Butylbenzene	9.61		"	10.0		96.1	79-137		13.8	30	
Styrene	10.5		"	10.0		105	67-132		0.00	30	
tert-Butylbenzene	7.84		"	10.0		78.4	77-138		12.8	30	
Tetrachloroethylene	9.35		"	10.0		93.5	82-131		3.36	30	
Toluene	9.73		"	10.0		97.3	80-127		6.08	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.39	30	
trans-1,3-Dichloropropylene	9.40		"	10.0		94.0	78-131		12.2	30	
Trichloroethylene	9.19		"	10.0		91.9	82-128		6.63	30	
Trichlorofluoromethane	9.23		"	10.0		92.3	67-139		8.90	30	
Vinyl Chloride	9.89		"	10.0		98.9	58-145		4.74	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: SURR: Toluene-d8	9.41		"	10.0		94.1	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.30		"	10.0		93.0	79-122				



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ01732 - EPA 5035A

Blank (BJ01732-BLK1)										Prepared & Analyzed: 10/29/2020	
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	208		ug/L	200		104	70-130				
Duplicate (BJ01732-DUP1) *Source sample: 20J1088-02 (R-1)										Prepared: 10/29/2020 Analyzed: 10/30/2020	
Total Petroleum Hydrocarbons-GRO	571	93.4	mg/kg dry		517				9.90	30	
Surrogate: SURR: p-Bromofluorobenzene	214		ug/L	200		107	70-130				
Matrix Spike (BJ01732-MS1) *Source sample: 20J1088-02 (R-1)										Prepared: 10/29/2020 Analyzed: 10/30/2020	
Total Petroleum Hydrocarbons-GRO	10700		ug/L	8000	4430	77.9	70-130				
Surrogate: SURR: p-Bromofluorobenzene	216		"	200		108	70-130				
Reference (BJ01732-SRM1)										Prepared & Analyzed: 10/29/2020	
Total Petroleum Hydrocarbons-GRO	553	20.0	mg/kg wet	237		233	24.9-274				
Surrogate: SURR: p-Bromofluorobenzene	276		ug/L	200		138	70-130				

Batch BJ01787 - EPA 5030B

Blank (BJ01787-BLK1)										Prepared & Analyzed: 10/30/2020	
Total Petroleum Hydrocarbons-GRO	ND	0.800	mg/L								
Surrogate: SURR: p-Bromofluorobenzene	200		ug/L	200		100	70-130				
Reference (BJ01787-SRM1)										Prepared & Analyzed: 10/30/2020	
Total Petroleum Hydrocarbons-GRO	2.13	0.800	mg/L	2.30		92.4	37.1-176				
Surrogate: SURR: p-Bromofluorobenzene	208		ug/L	200		104	70-130				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
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Batch BJ01393 - % Solids Prep

Duplicate (BJ01393-DUP1)		*Source sample: 20J1088-02 (R-1)					Prepared: 10/23/2020 Analyzed: 10/26/2020				
% Solids	85.7	0.100	%		85.7			0.0151	20		



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20J1088-01	C	2 oz. WM Clear Glass Cool to 4° C
20J1088-02	R-1	2 oz. WM Clear Glass Cool to 4° C
20J1088-03	R-2	2 oz. WM Clear Glass Cool to 4° C
20J1088-04	R-3	2 oz. WM Clear Glass Cool to 4° C
20J1088-05	C	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J1088-06	R-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J1088-06	R-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J1088-07	R-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J1088-08	R-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J1088-09	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

VOA-CONT	Non-Compliant - the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

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



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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

[illegible]