

567 Main Street

WESTBURY, NASSAU COUNTY, NEW YORK

Construction Completion Report **(Former Atlas Graphics Site)**

NYSDEC Site Number: 130043B

Prepared for:

H.D.P Printing Industries Corporation
2459 Broadmoor Lane
Spring Hill, Florida 34606

Prepared by:

Tyll Engineering and Consulting, PC
169 Commack Road, Suite 173
Commack, New York 11725
(631) 623-5373

OCTOBER 2023

CERTIFICATIONS

I, Karen Tyll, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Design was implemented and that all construction activities were completed in substantial conformance with the Department-approved Sub-Slab Depressurization Work Plan (SSDSWP).

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Karen Tyll, of Tyll Engineering and Consulting, PC am certifying as Owner's Designated Site Representative and I have been authorized and designated by all site owners to sign this certification for the site.



NYS Professional Engineer # 079520

10/25/23

date

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LIST OF ACRONYMS

Acronym	Definition
bgs	below ground surface
CCR	Construction Completion Report
CVOC	chlorinated volatile organic compounds
EPA	U.S. Environmental Protection Agency
HVAC	Heating, Ventilation and Air Conditioning
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
O, M & M	Operation, Maintenance and Monitoring
PCBs	polychlorinated biphenyls
PCE or PERC	Perchloroethylene
PFAS	per-and polyfluoroalkyl substances
PID	Photoionization Detector
RI	Remedial Investigation
RIWP	Remedial Investigation Work Plan
SMP	Site Management Plan
SSDS	sub-slab depressurization system
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
SVOCs	semi-volatile organic compounds
TAL	target analyte list
TCL	target compound list
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UUSCOs	Unrestricted Use SCOs
VOC	volatile organic compounds

CONSTRUCTION COMPLETION REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

1.1 PROJECT BACKGROUND

H.D.P. Printing Industries Corp. entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) in February 2021, to investigate and remediate a 0.21-acre property located in Westbury, Nassau County, New York.

1.2 SITE LOCATION AND DESCRIPTION

The site is located in the County of Nassau, New York and is identified as Section 11, Block 164 and Lot 68 on the Nassau County Tax Map. The site is an approximately 0.2-acre area and is bounded by commercial building and Parking Lots to the north and east, Main Street to the south, and Swalm Street to the west (**Figure 1**). The boundaries of the site are show on the Tax Map on **Figure 2**.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

3.0 INTERIM REMEDIAL MEASURES

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

The installation of a SSDS facilitated the engineering control measure necessary for the documented CVOC SVI risk, as well as a means to reduce the exposure risk posed by residual CVOCs.

The SSDS system consists of an interior SSDS installed within trenches under the concrete slab (**Figure 3**). Negative pressure gradients created by the SSDS fan have been accomplished within the trench system. The SSDS has been monitored on an annual basis and adjusted to confirm that there is a negative pressure gradient below the building slab and in the subsurface soils.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Sub-Slab Depressurization System Work Plan (SSDSWP) for the 567 Main Street site approved February 3, 2023. The primary objective of the SSDSWP was to mitigate chlorinated VOC vapor impacts identified in subsurface at the Site. This objective was accomplished via the installation of a SSDS within the Site building. The overall objective for the Site is its continued use for commercial/light industrial purposes. This IRM completed at the Site was conducted in accordance with the NYSDEC-approved SSDSWP submitted in January 2023 (approved by NYSDEC February 2023). Deviations from the SSDSWP, if any, are noted in **Section 4.7**.

The Remedial Goals in the SSDSWP were as follows:

- Install a SSDS to create negative sub-slab pressure beneath the site building, thus mitigating potential soil vapor intrusion issues within the site building.
- Install gauges associated with the SSDS as well as pressure monitoring points to confirm the influence, confirm, and monitor the operation of the system.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site. The HASP can be found in Appendix D of the SSDSWP.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP is included as **Appendix A** of this document. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Soil/Materials Management Plan (S/MMP)

The S/MMP was included in Section 4.0 of the SSDSWP

4.1.4 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan (CAMP) was completed during the SSDS Installation project. A Dusttrak Model 8520 meter was used to measure and record the amount of dust in the air and a portable photoionization detector (PID) was used to detect organic vapors. The equipment was installed and continuously used within the interior work area when intrusive activities were in progress at the Site. Data generated from CAMP at the facility during construction can be found within the Daily Reports in **Appendix B**.

4.2 INTERIM REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

- Tyll Engineering and Consulting, PC (Karen Tyll, PE) completed the SSDS design and oversaw the Installation; and
- PG Environmental was the contractor that completed the SSDS Installation.

4.2.2 Installation of the Sub-Slab Depressurization System (SSDS)

The SSDS trenches including piping, gravel backfill, and re-concreting were completed in February and March 2023. The SSDS followed the design presented in the SSDS Work Plan approved by NYSDEC and NYSDOH. The SSDS consists of two intersecting trenches leading to one SSDS fan installed upon the rear of the building. Photographs are provided in **Appendix C**.

The trenches were cut into the concrete basement slab using an electric powered saw and jackhammer and was approximately 12-inches wide and was excavated to 1 foot deep below the slab. Each trench has a 4-inch diameter, fabric wrapped perforated pipe running through it surrounded by gravel. The piping was connected to a vertical riser which extends up through the building wall to the roof.

The trenches were topped off with gravel and the tenant had their concrete contractor close the tops of the trench with concrete to match the existing floor slab.

4.2.3 Nuisance Controls

The SSDS installation was completed indoors and the occurrences of nuisances were not observed.

4.2.4 CAMP Results

No exceedances of CAMP guidelines were observed during the SSDS Installation.

Copies of all field data sheets relating to the CAMP are provided in electronic format within the Daily Reports in **Appendix B**.

4.2.5 Daily Reports

Tyll Engineering submitted daily reports during the SSDS Installation Project between February 27 and March 6, 2023. The Daily Reports can be found in **Appendix B**.

4.2.6 SSDS Startup and Testing

After the initiation of the active SSDS, a start-up test was performed by TEC to determine sub-

slab pressure readings under operational conditions and to establish the efficacy of the SSDS.

On March 22, 2023, TEC went to the Site and determined that the SSDS was in operation. Pressure readings were collected from the 4 sub-slab soil vapor monitoring points using a digital manometer to determine the pressure differentials beneath the building slab. The results were all above the required pressure readings of -0.004 inches of water. Chart below shows the results:

Point	Pressure (in H ₂ O)
VP-1	-0.94
VP-2	-0.32
VP-3	-0.04
VP-4	-0.07

The SSDS remains in operation and will not be shut down unless the NYSDEC approves it.

4.3 IMPORTED BACKFILL

No Backfill was imported during this SSDS Installation. Only ¾" gravel was imported for the SSDS trenches. See **Appendix E** for the gravel delivery ticket.

4.4 CONTAMINATION REMAINING AT THE SITE

As presented in **Section 3.1**, the objective of the SSDS building EC is to reduce the potential SVI risk posed by CVOC impacted soil vapor from areas below the Structure. Contaminated media remaining at the site includes CVOC impacted soil vapor as summarized below

- In 2010, a NYSDEC Contractor collected three samples, 2 from within the building and 1 from outside the building. Tetrachloroethylene (PCE) was detected in indoor air within the Site building at concentrations of 27 and 28 micrograms per cubic meter (ug/m³). At the time, these concentrations were below the NYSDOH indoor air guideline of 100 ug/m³ but were near the current NYSDOH indoor air guideline of 30 ug/m³. Trichloroethylene (TCE) was detected in the indoor air at concentrations of 1.9 and 1.6 ug/m³. The current NYSDOH indoor air guideline for TCE is 2 ug/m³. In addition, PCE and TCE were detected at (maximum of 4,200 ug/m³ and 31 ,000 ug/m³ respectively) in soil vapor beneath the building.
- On March 11, 2021, an additional sampling event was completed that included the collection of sub-slab, indoor air and outdoor ambient air. PCE was detected in indoor air within the building at concentrations of 1.7 at VP-1 and 1.5 ug/m³ at VP-2. These concentrations were below the NYSDOH indoor air guideline of 30 ug/m³. TCE was detected in the indoor air at concentrations of 2.0 at VP-1 and 1.4 ug/m³ at VP-2. The current NYSDOH indoor air guideline for TCE is 2 ug/m³. PCE and TCE were detected at

maximum concentrations of 360 ug/m³ and 1800 ug/m³ in soil vapor beneath the building slab. TCE was not detected in the outside (ambient) air sample but PCE was detected at 2.7 ug/m³ (higher concentration than the two indoor air samples).

Since contaminated soil vapor remains beneath the site after completion of the Remedial Investigation, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.5 COVER SYSTEM

Exposure to remaining contamination in soil/fill at the site is prevented by a concrete and asphalt cover system placed over the site. This cover system is comprised of a minimum of 4" of asphalt pavement around exterior of the building and an approximate 4" concrete building slab.

4.6 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial/light industrial uses only.

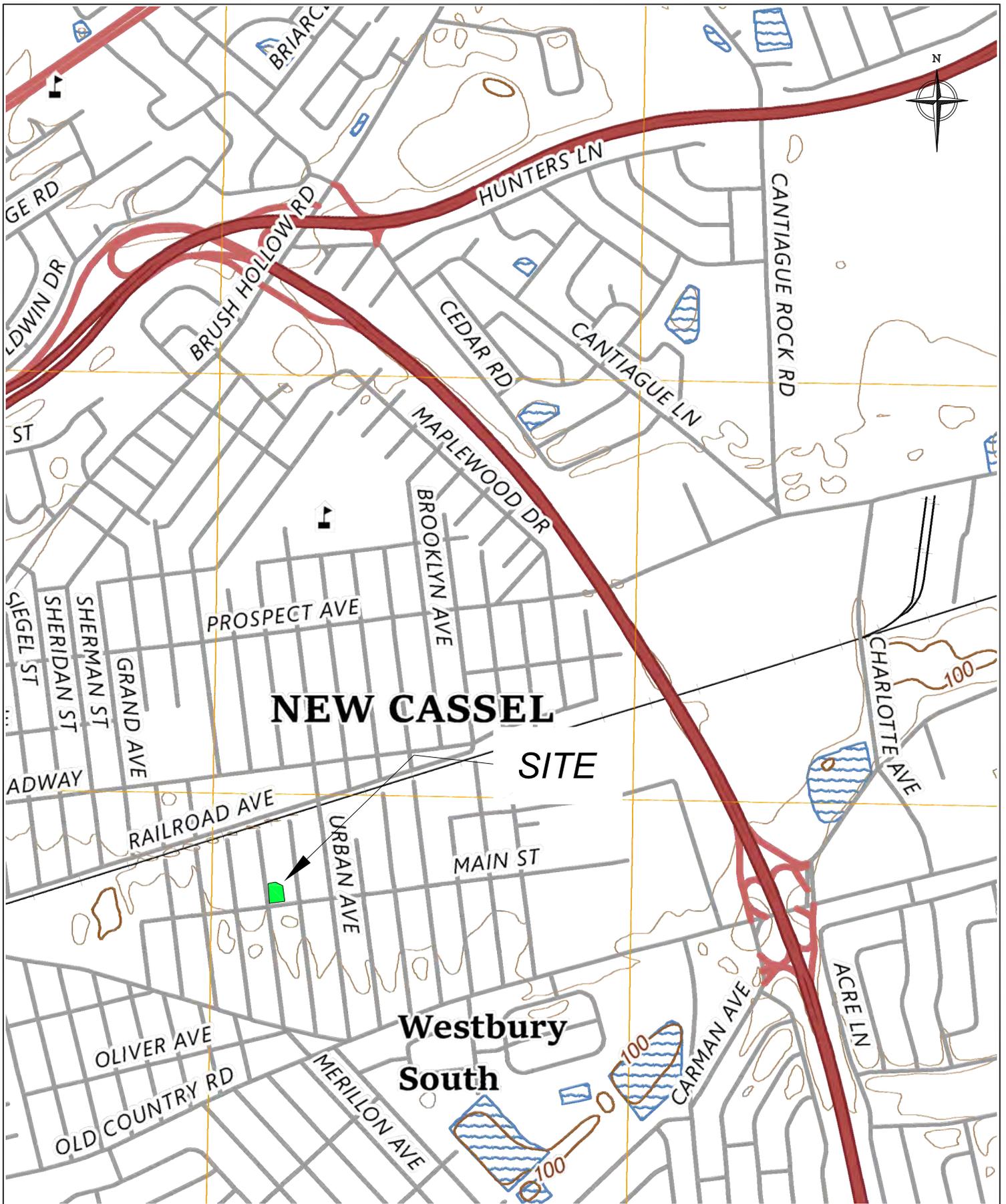
The environmental easement is currently being completed and will be provided in **Appendix D** once available.

4.7 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

Changes to the alignment occurred once the system was laid out on the first day of construction due to site conditions. Those changes were relayed to the NYSDEC within the daily report from February 27, 2023

No other deviations from the SSDS workplan occurred.

FIGURES



PREPARED BY:



TYLL ENGINEERING & CONSULTING PC

169 Commack Road, Suite H173, Commack, NY 11725
 PHONE: (631) 629-5373 Info@tyllengineering.com

TITLE:

SITE LOCATION MAP

567 MAIN STREET
 WESTBURY, NEW YORK

DRAWN:

-

CHECKED:

KT

FIGURE NO.:

SCALE:

NTS

APPROVED:

KT

DATE:

09-8-2023

REVISION:

-

PROJECT NO.:

HDP2201

NOTES:

-

AVE.



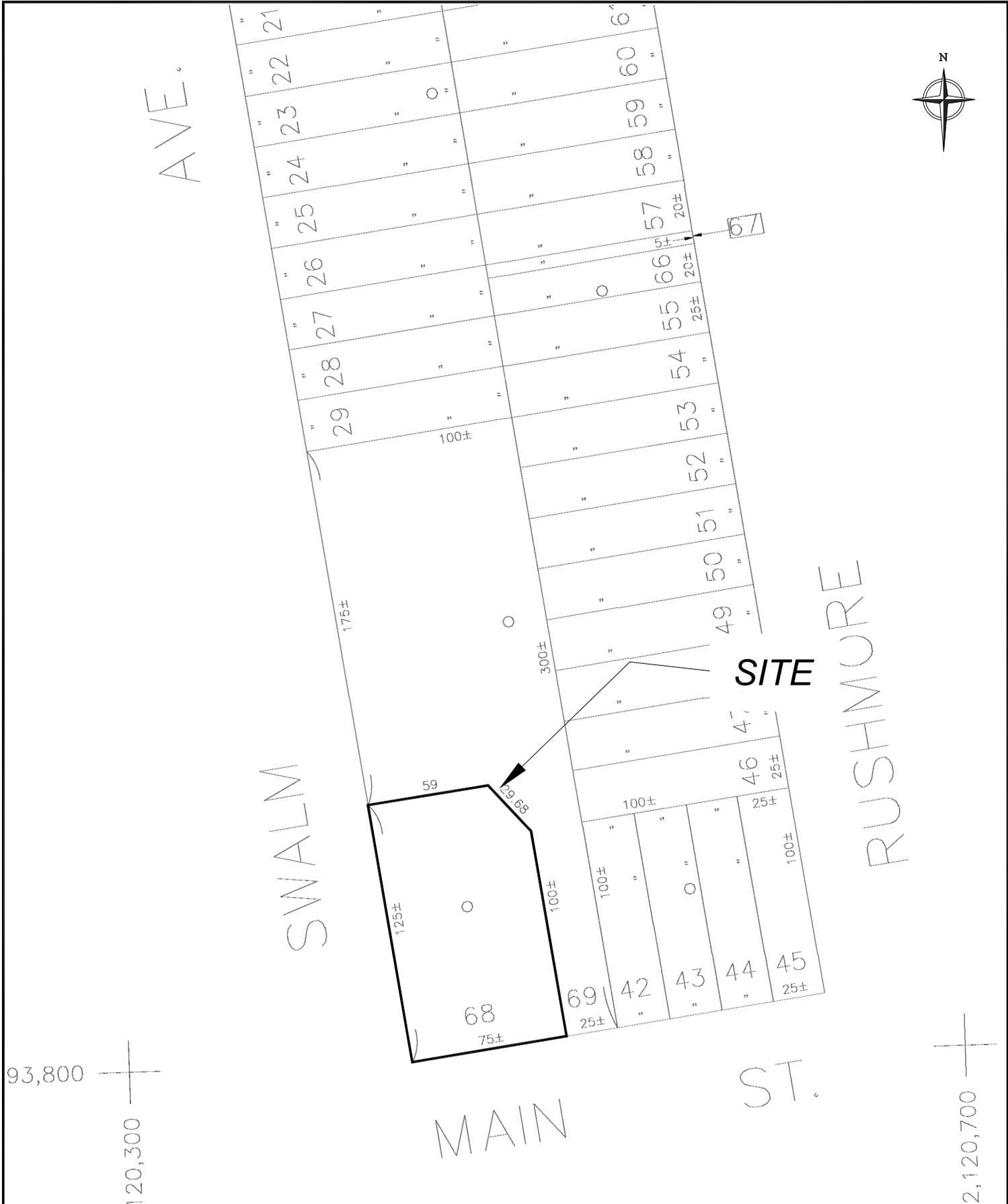
SWALM

RUSHMURE

SITE

MAIN

ST.



93,800

120,300

2,120,700

PREPARED BY:



TYLL ENGINEERING & CONSULTING PC
 169 Commack Road, Suite H173, Commack, NY 11725
 PHONE: (631) 629-5373 Info@tyllengineering.com

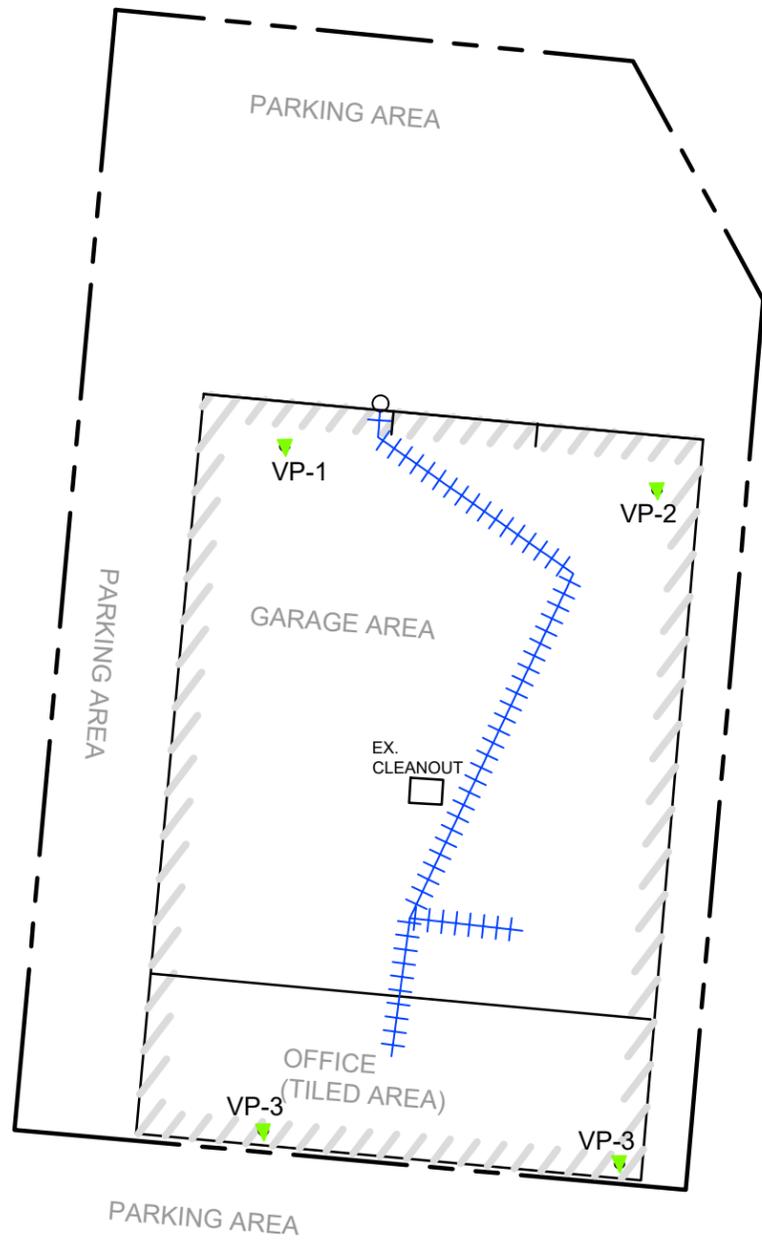
TITLE:

NASSAU COUNTY TAX MAP
 567 MAIN STREET
 WESTBURY, NEW YORK

DRAWN:	SCALE:	DATE:	PROJECT NO.:
-	NTS	09-8-2023	HDP2201
CHECKED:	APPROVED:	REVISION:	NOTES:
KT	KT	-	-
FIGURE NO.:		2	

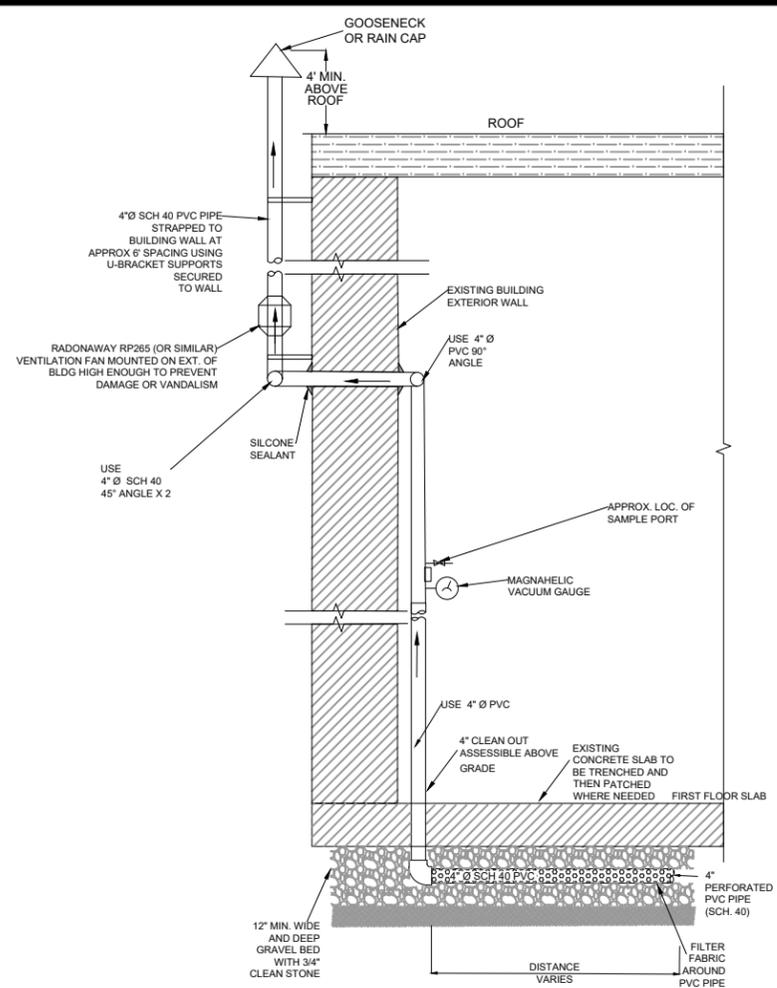
SWALM ST

SIDEWALK

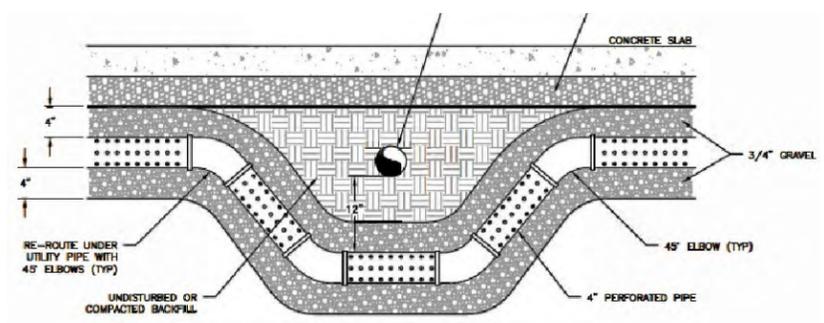


PARKING AREA

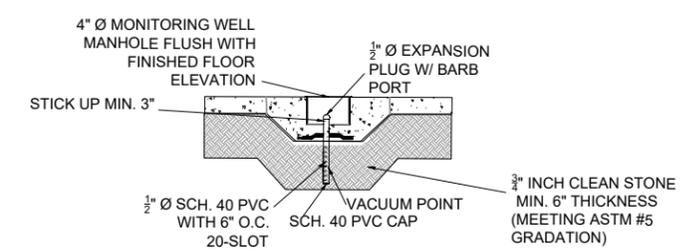
MAIN ST



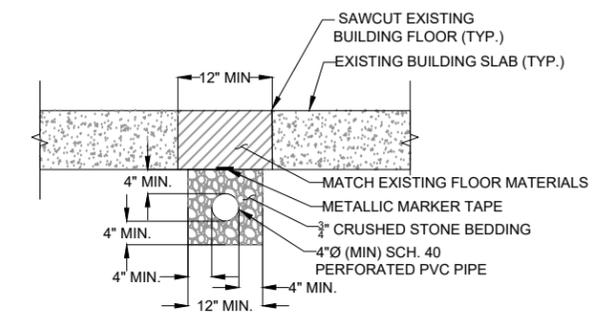
○ TYPICAL SSDS PROFILE AND SUCTION PIT DETAIL
SCALE: NTS



TYPICAL SSDS AND PIPE CROSSING DETAIL
SCALE: NTS



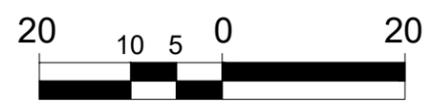
▼ TYPICAL VACUUM MONITORING POINT
SCALE: NTS



+++ TYPICAL PIPE TRENCH DETAIL
SCALE: NTS

NOTES

1. DEPICTED LOCATIONS OF VACUUM MONITORING POINTS ARE APPROXIMATE AND SHOULD BE COORDINATED WITH OWNER, ARCHITECT, AND TYLL ENGINEERING.
2. ALL PENETRATIONS THROUGH THE SLAB SHALL BE SEALED USING A SILICONE BASED WATERPROOF SEALANT OR EQUIVALENT.
3. SUCTION LATERALS OF THE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SHOULD BE PITCHED AWAY FROM EXTRACTION POINTS TO PREVENT POOLING OF CONDENSATE IN THE BOTTOM OF VERTICAL RISERS, TO THE EXTENT PRACTICAL.
4. PROVIDE ELECTRICAL/CONTROL CONDUIT TO SSDS FANS. COORDINATE WITH ELECTRICIAN.
5. ELECTRICAL REQUIREMENTS INCLUDE A 110 VOLT POWER OUTLET, FOR EACH SSDS FAN.
6. THE BLOWER DISCHARGES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM HVAC AIR INLETS, AND PROPERTY LINE.
7. THE SSDS FANS SHALL BE A RADONAWAY MODEL RP145 OR APPROVED EQUAL.
8. THE RADONAWAY CHECKPOINT IIa ALARM SIGNAL SHALL BE AUDIBLE.
9. PROVIDE ALL NECESSARY PIPE SUPPORTS FOR RISER PIPES FROM THE BASEMENT TO THE EXHAUST POINT ON THE ROOF.



LEGEND

- +++ 4" PERFORATED PVC SSDS HORIZONTAL PIPING
- ▼ VACUUM MONITORING POINT
- 4" Ø SCH 40 PVC SSDS RISER PIPE ON EXTERIOR OF BUILDING

AS-BUILT



ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL

SSDS PLAN

FORMER ATLAS GRAPHICS SITE
567 MAIN STREET
WESTBURY, NEW YORK



TYLL ENGINEERING & CONSULTING PC

169 Commack Road, Suite H173, Commack, NY 11725
PHONE: (631) 629-5373 info@tyllengineering.com

SHEET TITLE:	SSDS LAYOUT PLAN
DESIGNED BY:	KT
REVIEWED BY:	KT
PLAN SHEET BY:	KT
SCALE:	AS SHOWN
DATE:	rev2 OCTOBER 20, 2023
PROJECT NO.:	HDP2201

Appendix A
Quality Assurance Project Plan (QAPP)



1.0 QUALITY ASSURANCE PROJECT PLAN (QAPP)

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements will be addressed by the laboratory for all data generated.

Collected samples will be appropriately packaged and transported via laboratory dispatched courier to the analytical laboratory.

Laboratory reports will include ASP category B deliverables for use in the preparation of a data usability report (DUSR), if required. The DUSR will be applicable to all samples collected during the RI.

2.0 Subslab Vapor and Indoor /Outdoor Air Samples

Extreme care will be taken during all aspects of sample collection to ensure that sampling error is minimized and high quality data are obtained. The sampling team members will avoid actions (e.g., using permanent marker pens and wearing freshly dry-cleaned clothes or personal fragrances) which can cause sample interference in the field. A tracer gas, helium, will be used in accordance with NYSDOH sampling protocols to serve as a QA/QC device to verify the integrity of the soil vapor probe seals. QA/QC protocols will be followed for sample collection and laboratory analysis, such as use of certified clean sample devices, meeting sample holding times and temperatures, sample accession, and chain of custody.

Samples will be delivered to the analytical laboratory as soon as possible after collection. The laboratory analyzes QC samples with each analytical batch, including a Method Blank (MB), Laboratory Control Sample (LCS), and a Laboratory Control Sample Duplicate (LCSD). Internal standards are added to all calibration standards, samples, and blanks to verify that the analytical system is in control.

3.0 Sample Handling and Decontamination Procedures

Collected samples will be appropriately packaged, placed in coolers and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of ice or cold-pak(s) to maintain a temperature of 4°C.

Dedicated disposable sampling materials will be used for soil, groundwater and soil vapor samples (if collected), eliminating the need to prepare field equipment (rinsate) blanks. However, if non- disposable equipment is used, (stainless steel scoop, etc.) field rinsate blanks will be prepared at the rate of one for every eight samples collected. No field filtering will be conducted; any required filtration will be completed by the laboratory.

Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil;
- Rinse with tap water;
- Wash withalconox® detergent solution and scrub ;
- Rinse with tap water;
- Rinse with distilled or deionized water.

Prepare field blanks by pouring distilled or deionized water over decontaminated equipment and collecting the water in laboratory provided containers. Trip blanks will accompany samples each time they are transported to the laboratory. Matrix spike and matrix spike duplicates (MS/MSD) will be collected at the rate of one per 20 samples submitted to the laboratory and duplicate samples will be collected at a rate of one per ten samples submitted to the laboratory.

4.0 QA / QC Requirements for Analytical Laboratory

Samples will be analyzed by the NYSDOH ELAP laboratory for one or more of the following parameters: VOCs in air by USEPA Method TO15 (Table 2). If any modifications or additions to the standard procedures are anticipated and if any nonstandard sample preparation or analytical protocol is to be used, the modifications and the nonstandard protocol will be explicitly defined and documented.

Data generated from the laboratory will be used to evaluate contaminants such as chlorinated and other volatile organic compounds (VOCs) in soil vapor. The QA requirements for all subcontracted analytical laboratory work performed on this project are described below. QA elements to be evaluated include accuracy, precision, sensitivity, representativeness, and completeness. The data generated by the analytical laboratory for this project are required to be sensitive enough to achieve required quantification limits as specified in NYSDEC Analytical Services Protocol (NYSDEC ASP, 07/2005) and useful for comparison with clean-up objectives. The analytical results meeting the required quantification limits will provide data sensitive enough to meet the data quality objectives of this remedial program as described in the work plan. Reporting of the data must be clear, concise, and comprehensive. The QC elements that are important to this project are completeness of field data, sample custody, sample holding times, sample preservation, sample storage, instrument calibration and blank contamination.

5.0 Reporting of Results

Draft soil vapor intrusion data, sampling location figures and completed Building Questionnaires and Product Inventories (for each sampled building) will be provided to the NYSDEC and the NYSDOH Project Managers as soon as the draft data is available.

Sample analysis will be provided by a New York State certified environmental laboratory.

Laboratory reports will include ASP category B deliverables for use in the preparation of a data usability summary report (DUSR). All results will be provided in accordance with the NYSDEC electronic data deliverable (EDD) format (EQuIS).

6.0 DUSR

The DUSR provides a thorough evaluation of analytical data without third party data validation. The primary objective of a DUSR is to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use. Verification and/or performance monitoring samples collected under this RIWP will be reviewed and evaluated in accordance with the Guidance for the Development of Data Usability Summary Reports as presented in Appendix 2B of DER-10. The completed DUSR for verification/performance samples collected during implementation of this SVI will be included in the SVI Report prior to its formal approval.

Appendix B
Daily Reports and Camp Information



DAILY STATUS REPORTPrepared By: Karen Tyll

WEATHER	Snow	x	Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	< 32		30-50	x	50-70		70-85		>85	

NYSDEC Site No.:	130043A	Date:	02/27/23
Project Name:	567 Main Street	Address	567 Main Street, Westbury, NY

Project Manager: Karen Tyll, Tyll Engineering	Environmental Contractor: PG Environmental Services, Inc.
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Work Activities Performed:

PG Environmental started to saw cut the concrete slab to install the SSDS

An updated map with revised alignment is included.

Samples Collected: None

Air Monitoring Update:

No odors or visible dust were observed during field activities.

CAMP Data attached.

VOC Action Level Exceedance(s) Above Background (Y/N): No
 Particulate Action Level Exceedance(s) Above Background (Y/N): No

Planned Activities for the Next Day/Week:

Continue the saw cutting and trenching below the slab

PHOTOS





CAMP DATA (See Following Pages)

On- Site Dust and Volatile Organic Vapor Monitoring

Project:	567 Main Street, Westbury NY		Job No.:	_____
Location:	On-site Personnel: Diego Fajardo			
Day & Date	02/27/2023		Weather: Cloudy scatter showers	
	AM	PM	Sample Interval:	15 minutes
Wind Direction	N/A	N/A	Background Reading (particulates)	0.041mg/m ³
Temperature Range:	36°F	44°F	Background Reading (organic vapors)	0.0 ppm
Calibration Dates:	Particulate Meters: DUST TRAK Photoionization Detector:PID MINI RAE 2000			
Action	Organic vapors: > 5ppm above background levels/ 15 minute readings			
Level/Response:	Particulates: 0.100 mg/m ³ above up wind reading/15 minute period			

Time	Particulate levels:		ORGANIC VAPOR LEVELS (ppm)	NOTES
	(mg/m ³)			
0800	0.016		0.0	Setting up Station
0815	0.024		0.0	Saw cutting concrete slab
0830	0.029		0.0	SAB
0845	0.036		0.0	SAB
0900	0.041		0.0	SAB
0915	0.045		0.0	SAB
0930	0.053		0.0	SAB
0945	0.058		0.0	SAB
1000	0.064		0.0	SAB
1015	0.073		0.0	SAB
1030	0.068		0.0	SAB
1045	0.063		0.0	SAB
1100	0.056		0.0	SAB
1115	0.047		0.0	SAB
1130	0.043		0.0	SAB
1145	0.039		0.0	SAB
1200	0.035		0.0	Lunch

Project: 567 Main Street, Westbury NY

Job No.:

Location:

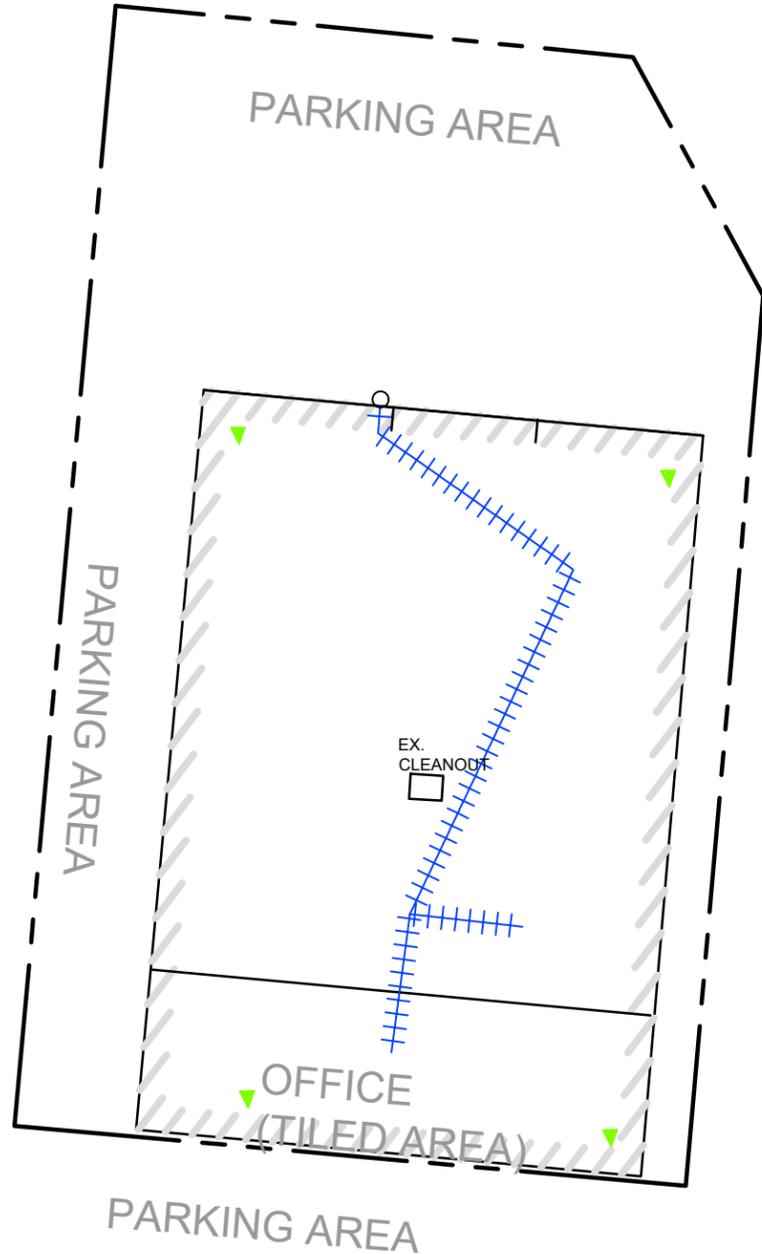
Day & Date: 02/27/2023

Time	Particulate levels:			ORGANIC VAPOR LEVELS (PPM)	NOTES
		(mg/m ³)			
1215		0.027		0.0	Lunch
1230		0.019		0.0	Lunch
1245		0.025		0.0	Saw cutting concrete Slab
1300		0.034		0.0	SAB
1315		0.042		0.0	SAB
1330		0.048		0.0	SAB
1345		0.054		0.0	SAB
1400		0.062		0.0	SAB
1415		0.069		0.0	SAB
1430		0.075		0.0	SAB
1445		0.067		0.0	SAB
1500		0.059		0.0	Site inactive / Tech off site
1515					
1530					
1545					
1600					
1615					
1630					
1645					
1700					

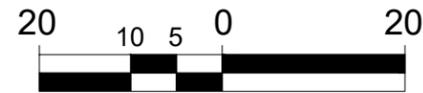
Revised SSDS Layout Plan

SWALM ST

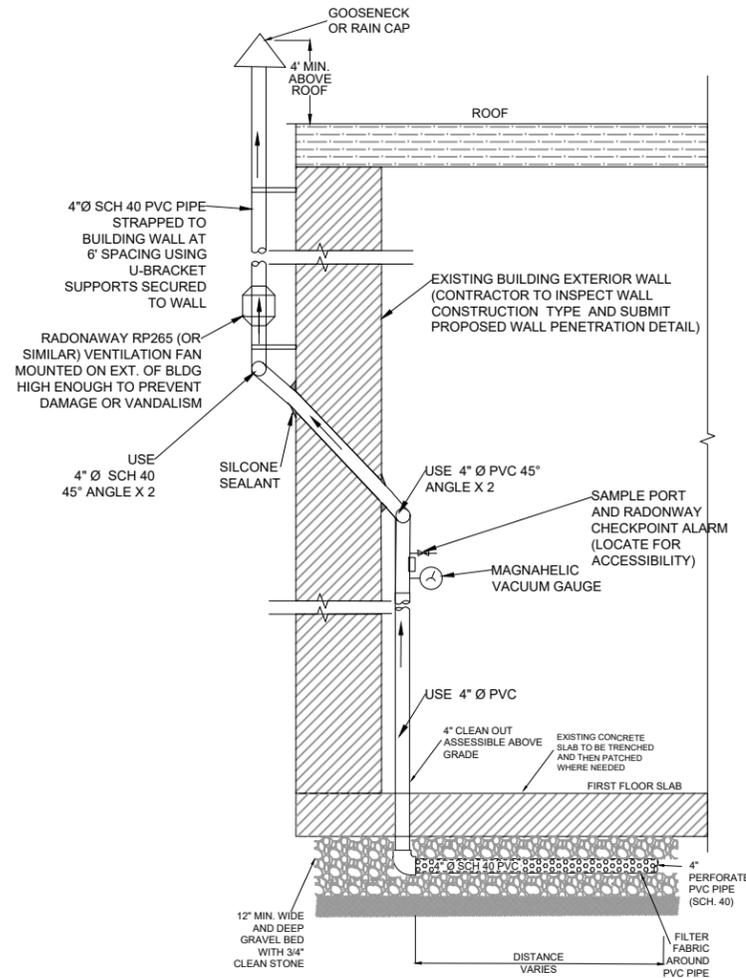
SIDEWALK



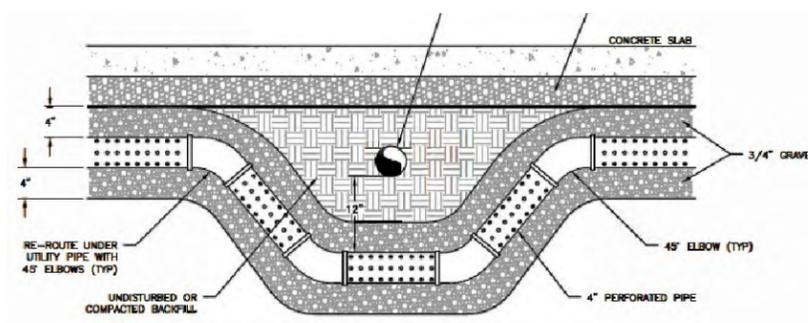
MAIN ST



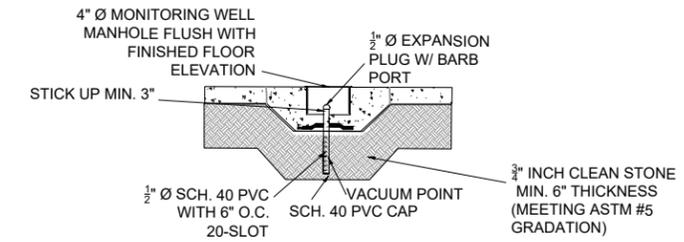
- LEGEND**
- 4" PERFORATED PVC SSDS HORIZONTAL PIPING
 - VACUUM MONITORING POINT
 - 4" Ø SCH 40 PVC SSDS RISER PIPE ON EXTERIOR OF BUILDING



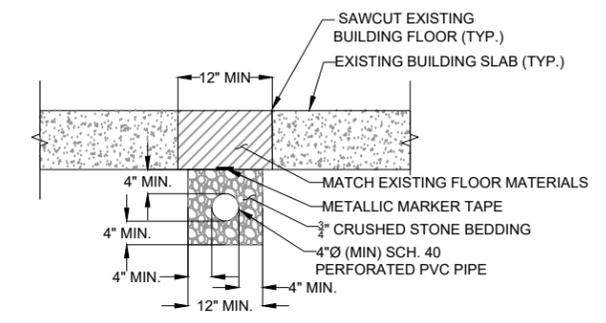
TYPICAL SSDS PROFILE AND SUCTION PIT DETAIL
SCALE: NTS



TYPICAL SSDS AND PIPE CROSSING DETAIL
SCALE: NTS



TYPICAL VACUUM MONITORING POINT
SCALE: NTS



TYPICAL PIPE TRENCH DETAIL
SCALE: NTS

NOTES

1. DEPICTED LOCATIONS OF VACUUM MONITORING POINTS ARE APPROXIMATE AND SHOULD BE COORDINATED WITH OWNER, ARCHITECT, AND TYLL ENGINEERING.
2. ALL PENETRATIONS THROUGH THE SLAB SHALL BE SEALED USING A SILICONE BASED WATERPROOF SEALANT OR EQUIVALENT.
3. SUCTION LATERALS OF THE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SHOULD BE PITCHED AWAY FROM EXTRACTION POINTS TO PREVENT POOLING OF CONDENSATE IN THE BOTTOM OF VERTICAL RISERS, TO THE EXTENT PRACTICAL.
4. PROVIDE ELECTRICAL/CONTROL CONDUIT TO SSDS FANS. COORDINATE WITH ELECTRICIAN.
5. ELECTRICAL REQUIREMENTS INCLUDE A 110 VOLT POWER OUTLET, FOR EACH SSDS FAN.
6. THE BLOWER DISCHARGES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM HVAC AIR INLETS, AND PROPERTY LINE.
7. THE SSDS FANS SHALL BE A RADONAWAY MODEL RP145 OR APPROVED EQUAL.
8. THE RADONAWAY CHECKPOINT IIa ALARM SIGNAL SHALL BE AUDIBLE.
9. PROVIDE ALL NECESSARY PIPE SUPPORTS FOR RISER PIPES FROM THE BASEMENT TO THE EXHAUST POINT ON THE ROOF.



ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL

SSDS PLAN

FORMER ATLAS GRAPHICS SITE
567 MAIN STREET
WESTBURY, NEW YORK



TYLL ENGINEERING & CONSULTING PC

169 Commack Road, Suite H173, Commack, NY 11725
PHONE: (631) 629-5373 info@tyllengineering.com

SHEET TITLE:	SSDS LAYOUT PLAN
DESIGNED BY:	KT
SCALE:	AS SHOWN
REVIEWED BY:	KT
DATE:	rev1 JANUARY 4, 2023
PLAN SHEET BY:	KT
PROJECT NO.:	HDP2201

DAILY STATUS REPORT

Prepared By: Karen Tyll

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy	x	Bright Sun	
TEMP.	< 32		30-50	x	50-70		70-85		>85	

NYSDEC Site No.:	130043A	Date:	02/28/23
Project Name:	567 Main Street	Address	567 Main Street, Westbury, NY

Project Manager: Karen Tyll, Tyll Engineering	Environmental Contractor: PG Environmental Services, Inc.
---	---

Work Activities Performed:
 PG Environmental continued to saw cut the concrete slab to install the SSDS.
 Discovered a footing under the separation between the shop and office area.

Samples Collected: None

Air Monitoring Update:
 No odors and minor visible dust were observed during field activities.
 CAMP Data is attached.
 VOC Action Level Exceedance(s) Above Background (Y/N): No
 Particulate Action Level Exceedance(s) Above Background (Y/N): No

Planned Activities for the Next Day/Week:
 Finish the trenching below the slab and core through the footing

PHOTOS









CAMP DATA (See Following Pages)

On- Site Dust and Volatile Organic Vapor Monitoring

Project:	567 Main Street, Westbury NY		Job No.:	_____
Location:	On-site Personnel: Diego Fajardo			
Day & Date	02/28/2023		Weather: SNOW	
	AM	PM	Sample Interval:	15 minutes
Wind Direction	N/A	N/A	Background Reading (particulates)	0.041mg/m ³
Temperature Range:	25°F	32°F	Background Reading (organic vapors)	0.0 ppm
Calibration Dates:	Particulate Meters: DUST TRAK Photoionization Detector:PID MINI RAE 2000			
Action	Organic vapors: > 5ppm above background levels/ 15 minute readings			
Level/Response:	Particulates: 0.100 mg/m ³ above up wind reading/15 minute period			

Time	Particulate levels:			ORGANIC VAPOR LEVELS (ppm)	NOTES
	(mg/m ³)				
0800	0.067			0.0	Setting up Stations
0815	0.073			0.0	Saw cutting concrete slab
0830	0.068			0.0	SAB
0845	0.062			0.0	SAB
0900	0.054			0.0	SAB
0915	0.047			0.0	SAB
0930	0.039			0.0	SAB
0945	0.034			0.0	Breaking and Removing concrete slab
1000	0.026			0.0	SAB
1015	0.019			0.0	SAB
1030	0.024			0.0	SAB
1045	0.031			0.0	SAB
1100	0.038			0.0	SAB
1115	0.045			0.0	SAB
1130	0.052			0.0	SAB
1145	0.059			0.0	SAB
1200	0.065			0.0	Lunch

Project: 567 Main Street, Westbury NY

Job No.:

Location:

Day & Date: 02/28/2023

Time	Particulate levels:			ORGANIC VAPOR LEVELS (PPM)	NOTES
	(mg/m ³)				
1215	0.074			0.0	Lunch
1230	0.078			0.0	Lunch
1245	0.072			0.0	Breaking and removing slab
1300	0.064			0.0	SAB
1315	0.057			0.0	SAB
1330	0.048			0.0	SAB
1345	0.043			0.0	SAB
1400	0.035			0.0	SAB
1415	0.028			0.0	SAB
1430	0.023			0.0	SAB
1445	0.017			0.0	SAB
1500	0.025			0.0	Site inactive / Tech off site
1515					
1530					
1545					
1600					
1615					
1630					
1645					
1700					

DAILY STATUS REPORT

Prepared By: Karen Tyll

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy	x	Bright Sun	
TEMP.	< 32		30-50	x	50-70		70-85		>85	

NYSDEC Site No.:	130043A	Date:	03/1/23
Project Name:	567 Main Street	Address	567 Main Street, Westbury, NY

Project Manager: Karen Tyll, Tyll Engineering	Environmental Contractor: PG Environmental Services, Inc.
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Work Activities Performed:

PG Environmental continued to clear the trench to install the SSDS.
Started to core drill the footing under the separation between the shop and office area to insert the SSDS pipe.

Samples Collected: None

Air Monitoring Update:

No odors or visible dust were observed during field activities.
CAMP Data is attached.

VOC Action Level Exceedance(s) Above Background (Y/N): No
Particulate Action Level Exceedance(s) Above Background (Y/N): No

Planned Activities for the Next Day/Week:

Finish the trenching below the slab and excavate the area through the footing to insert the pipe

PHOTOS









6
4 5 6 7 8 9 10 11
2 3 4 5 6 7 8 9 301 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
2 3 4 5 6 7 8 9 501 2 3 4 5 6 7





CAMP DATA (See Following Pages)

On- Site Dust and Volatile Organic Vapor Monitoring

Project:	567 Main Street, Westbury NY		Job No.:	_____
Location:	On-site Personnel: Diego Fajardo			
Day & Date	03/01/2023		Weather: Cloudy & Sunny	
	AM	PM	Sample Interval:	15 minutes
Wind Direction	N/A	N/A	Background Reading (particulates)	0.041mg/m ³
Temperature Range:	39°F	49°F	Background Reading (organic vapors)	0.0 ppm
Calibration Dates:	Particulate Meters: DUST TRAK Photoionization Detector:PID MINI RAE 2000			
Action	Organic vapors: > 5ppm above background levels/ 15 minute readings			
Level/Response:	Particulates: 0.100 mg/m ³ above up wind reading/15 minute period			

Time	Particulate levels:			ORGANIC VAPOR LEVELS (ppm)	NOTES
			(mg/m ³)		
0800			0.056	0.0	Setting up stations
0815			0.062	0.0	Breaking 6" diameter in concrete wall to office
0830			0.055	0.0	SAB
0845			0.049	0.0	SAB
0900			0.042	0.0	Breaking and removing slab
0915			0.035	0.0	SAB
0930			0.027	0.0	Digging soil out of trench and placing soil in drums
0945			0.023	0.0	SAB
1000			0.015	0.0	SAB
1015			0.008	0.0	SAB
1030			0.012	0.0	SAB
1045			0.019	0.0	SAB
1100			0.026	0.0	SAB
1115			0.034	0.0	SAB
1130			0.039	0.0	SAB
1145			0.047	0.0	SAB
1200			0.054	0.0	Lunch

Project: 567 Main Street, Westbury NY

Job No.:

Location:

Day & Date: 03/01/2023

Time	Particulate levels:			ORGANIC VAPOR LEVELS (PPM)	NOTES
			(mg/m ³)		
1215			0.063	0.0	Lunch
1230			0.067	0.0	Lunch
1245			0.059	0.0	Digging soil out of trench and placing soil in drums
1300			0.052	0.0	SAB
1315			0.045	0.0	SAB
1330			0.036	0.0	SAB
1345			0.032	0.0	SAB
1400			0.024	0.0	SAB
1415			0.017	0.0	SAB
1430			0.011	0.0	SAB
1445			0.005	0.0	SAB
1500			0.013	0.0	Site inactive / Tech off site
1515					
1530					
1545					
1600					
1615					
1630					
1645					
1700					

DAILY STATUS REPORT

Prepared By: Karen Tyll

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy	x	Bright Sun	
TEMP.	< 32		30-50	x	50-70		70-85		>85	

NYSDEC Site No.:	130043A	Date:	03/2/23
Project Name:	567 Main Street	Address	567 Main Street, Westbury, NY

Project Manager: Karen Tyll, Tyll Engineering	Environmental Contractor: PG Environmental Services, Inc.
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Work Activities Performed:

PG Environmental continued to clear the trench to install the SSDS. Excavating out under the office area and came up with a new way to insert pipe to avoid collapse of the material under the tile floor. PG has proposed to insert a 6" diameter well screen and insert the 4" diameter perforated PVC SSDS pipe inside it.

Samples Collected: None

Air Monitoring Update:

No odors or visible dust were observed during field activities.

CAMP Data is attached.

VOC Action Level Exceedance(s) Above Background (Y/N): No
 Particulate Action Level Exceedance(s) Above Background (Y/N): No

Planned Activities for the Next Day/Week:

Finish the trenching below the slab and excavate the area through the footing to insert the pipe.

PHOTOS











CAMP DATA (See Following Pages)

On- Site Dust and Volatile Organic Vapor Monitoring

Project:	567 Main Street, Westbury NY	Job No.:	
Location:	On-site Personnel: Diego Fajardo		
Day & Date:	3/2/2023	Weather:	Cloudy
	AM	PM	Sample Interval: 15 minutes
Wind Direction	N/A	N/A	Background Reading (particulates) 0.027mg/m ³
Temperature Range:	34°F	44°F	Background Reading (organic vapors) 0.0 ppm
Calibration Dates:	Particulate Meters: DUST TRAK Photoionization Detector:PID MINI RAE 2000		
Action	Organic vapors: > 5ppm above background levels/ 15 minute readings		
Level/Response:	Particulates: 0.100 mg/m ³ above up wind reading/15 minute period		

Time	Particulate		ORGANIC VAPOR LEVELS (ppm)	NOTES
		DUST METER (mg/m ³)		
0800		0.009	0.0	Setting up Stations
0815		0.014	0.0	Cutting and breaking concrete
0830		0.023	0.0	SAB
0845		0.028	0.0	SAB
0900		0.034	0.0	SAB
0915		0.043	0.0	SAB
0930		0.048	0.0	Digging Trench by removing soil
0945		0.054	0.0	SAB
1000		0.061	0.0	SAB
1015		0.065	0.0	SAB
1030		0.059	0.0	SAB
1045		0.055	0.0	SAB
1100		0.052	0.0	SAB
1115		0.045	0.0	Drumming all soil from trench
1130		0.036	0.0	SAB
1145		0.031	0.0	SAB
1200		0.024	0.0	Lunch

Project: 625 Fulton Street, Brooklyn

Job No.: _____

Location: _____

Day & Date: 3/2/2023

Time	Particulate levels:		ORGANIC VAPOR LEVELS (PPM)	NOTES
		DUST METER (mg/m ³)		
1215		0.016	0.0	Lunch
1230		0.011	0.0	Lunch
1245		0.018	0.0	Digging of trench
1300		0.025	0.0	SAB
1315		0.032	0.0	SAB
1330		0.039	0.0	SAB
1345		0.047	0.0	SAB
1400		0.054	0.0	SAB
1415		0.057	0.0	SAB
1430		0.053	0.0	SAB
1445		0.049	0.0	SAB
1500		0.046	0.0	Site inactive / Tech off site
1515				
1530				
1545				
1600				
1615				
1630				
1645				
1700				

DAILY STATUS REPORT

Prepared By: Karen Tyll

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy	x	Bright Sun	
TEMP.	< 32		30-50	x	50-70		70-85		>85	

NYSDEC Site No.:	130043A	Date:	03/6/23
Project Name:	567 Main Street	Address	567 Main Street, Westbury, NY

Project Manager: Karen Tyll, Tyll Engineering	Environmental Contractor: PG Environmental Services, Inc.
---	---

Work Activities Performed:
PG Environmental continued to install the SSDS aboveground piping, SSDS fan, and vacuum monitoring points

Samples Collected: None

Air Monitoring Update:
No odors or visible dust were observed during field activities.
CAMP Data attached.
VOC Action Level Exceedance(s) Above Background (Y/N): No
Particulate Action Level Exceedance(s) Above Background (Y/N): No

Planned Activities for the Next Day/Week:
Tenant's concrete contractor to install the concrete over the trench then once concrete cured, will install the final SSDS associated equipment and we will do startup testing procedures.

PHOTOS









PRIVATE
PROPERTY



CAMP DATA (See Following Pages)

On- Site Dust and Volatile Organic Vapor Monitoring

Project:	567 Main Street, Westbury NY	Job No.:	
Location:	On-site Personnel: Victor Barraza		
Day & Date:	3/6/23	Weather:	Sunny
	AM	PM	Sample Interval: 15 minutes
Wind Direction	N/A	N/A	Background Reading (particulates) 0.061 mg/m ³
Temperature Range:	44°F	59°F	Background Reading (organic vapors) 0.0 ppm
Calibration Dates:	Particulate Meters: DUST TRAK Photoionization Detector:PID MINI RAE 2000		
Action	Organic vapors: > 5ppm above background levels/ 15 minute readings		
Level/Response:	Particulates: 0.100 mg/m ³ above up wind reading/15 minute period		

Time	Particulate		ORGANIC VAPOR LEVELS (ppm)	NOTES
		(mg/m ³)		
0800		0.023	0.0	Setting up stations
0815		0.015	0.0	Installing pressure point with concrete core drill
0830		0.009	0.0	SAB
0845		0.018	0.0	SAB
0900		0.020	0.0	SAB
0915		0.029	0.0	Installing vertical 4" dia pipe
0930		0.036	0.0	SAB
0945		0.043	0.0	SAB
1000		0.053	0.0	SAB
1015		0.058	0.0	SAB
1030		0.064	0.0	SAB
1045		0.056	0.0	Installing fan on exterior wall
1100		0.048	0.0	SAB
1115		0.041	0.0	SAB
1130		0.035	0.0	SAB
1145		0.028	0.0	SAB
1200		0.024	0.0	Lunch

Project: 567 Main Street, Westbury NY

Job No.:

Location:

Day & Date: 3/6/2023

Time	Particulate levels:		ORGANIC VAPOR LEVELS (PPM)	NOTES
		(mg/m ³)		
1215		0.017	0.0	Lunch
1230		0.012	0.0	Lunch
1245		0.019	0.0	Securing all pipes and fan
1300		0.027	0.0	SAB
1315		0.032	0.0	SAB
1330		0.038	0.0	Installing covers on pressure points
1345		0.049	0.0	SAB
1400		0.057	0.0	SAB
1415		0.062	0.0	SAB
1430		0.054	0.0	Cleaning up the site
1445		0.045	0.0	SAB
1500		0.037	0.0	Site inactive / Tech off site
1515				
1530				
1545				
1600				
1615				
1630				
1645				
1700				

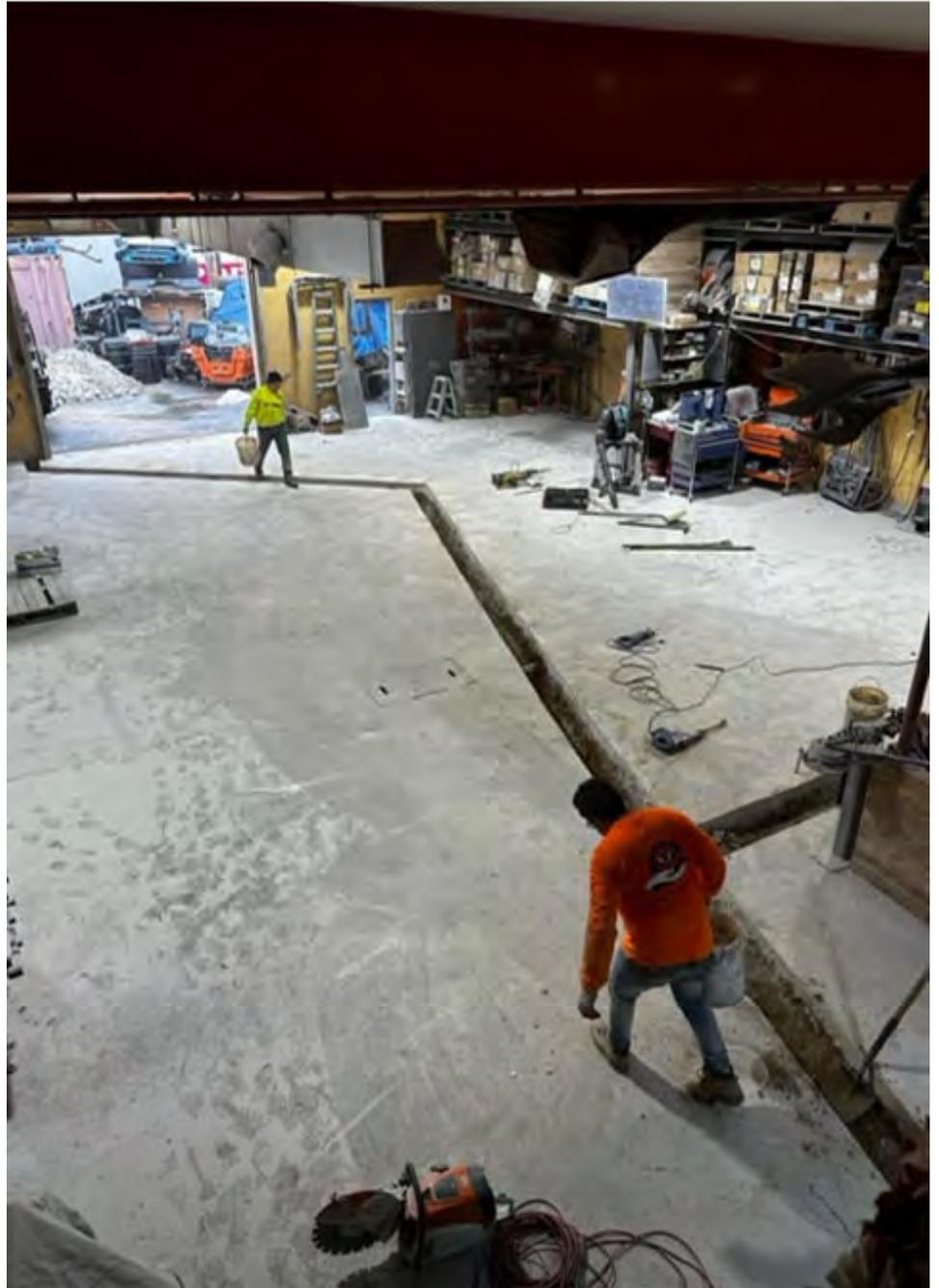
Appendix C

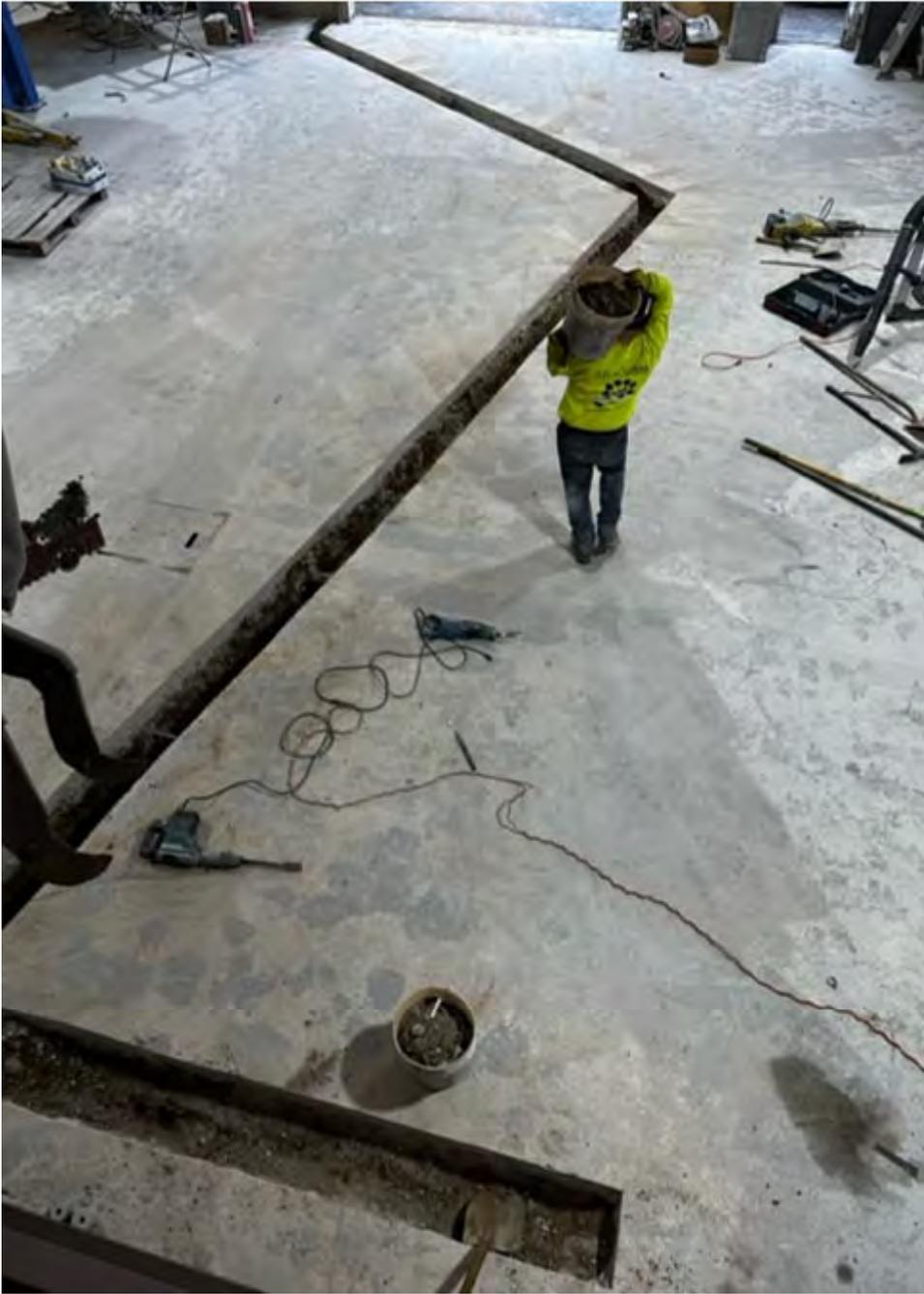
SSDS Installation Photos

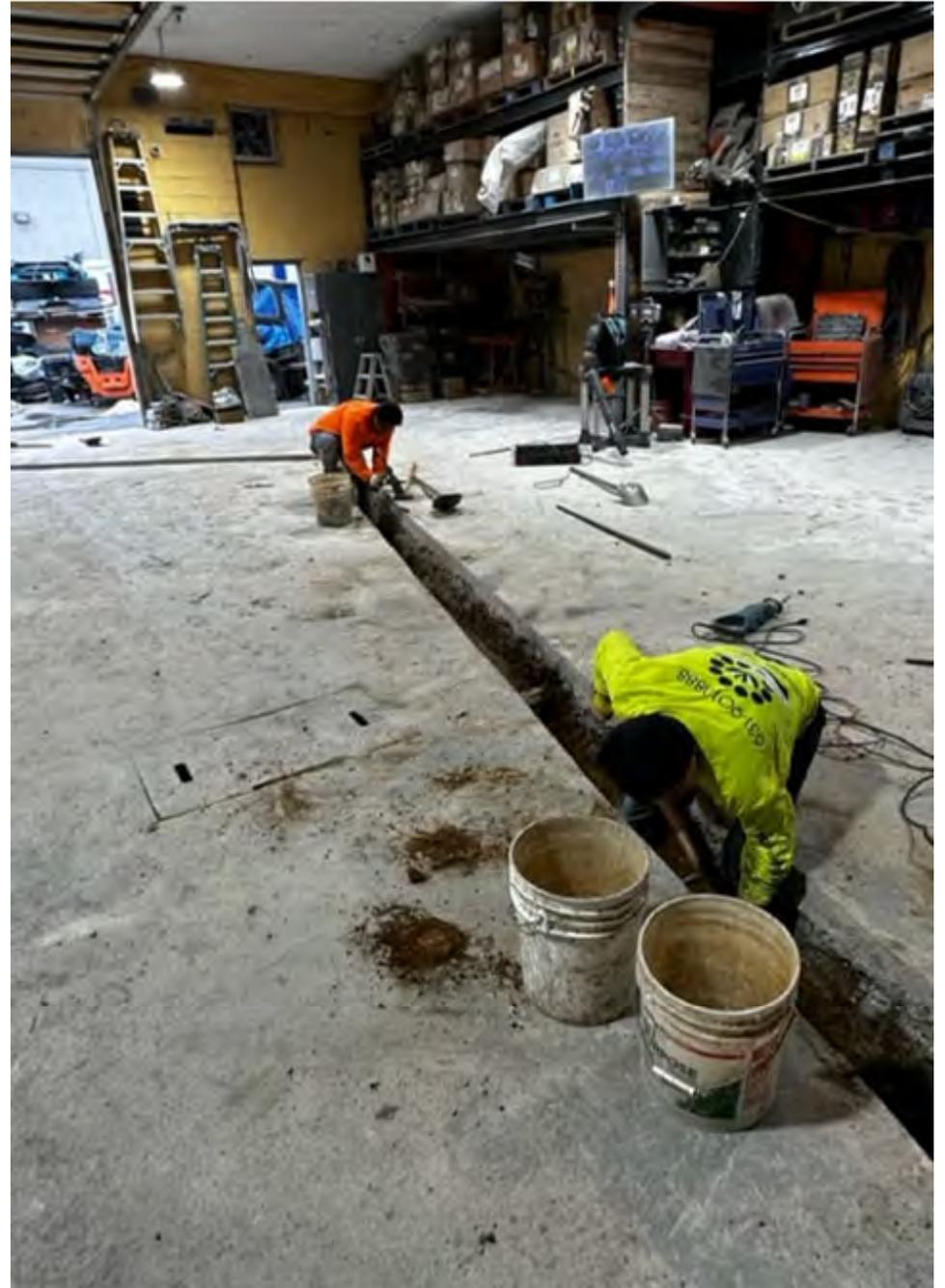
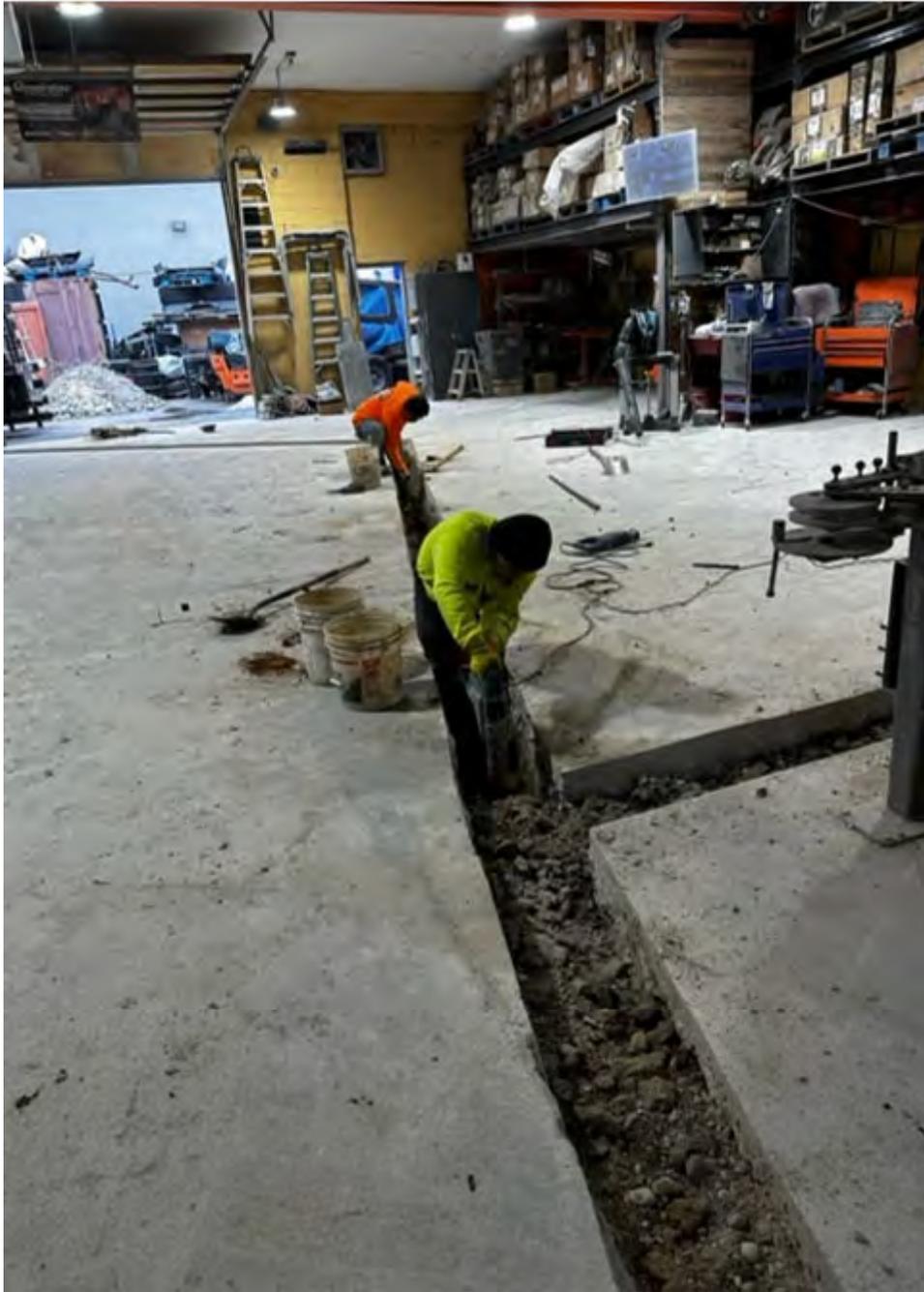


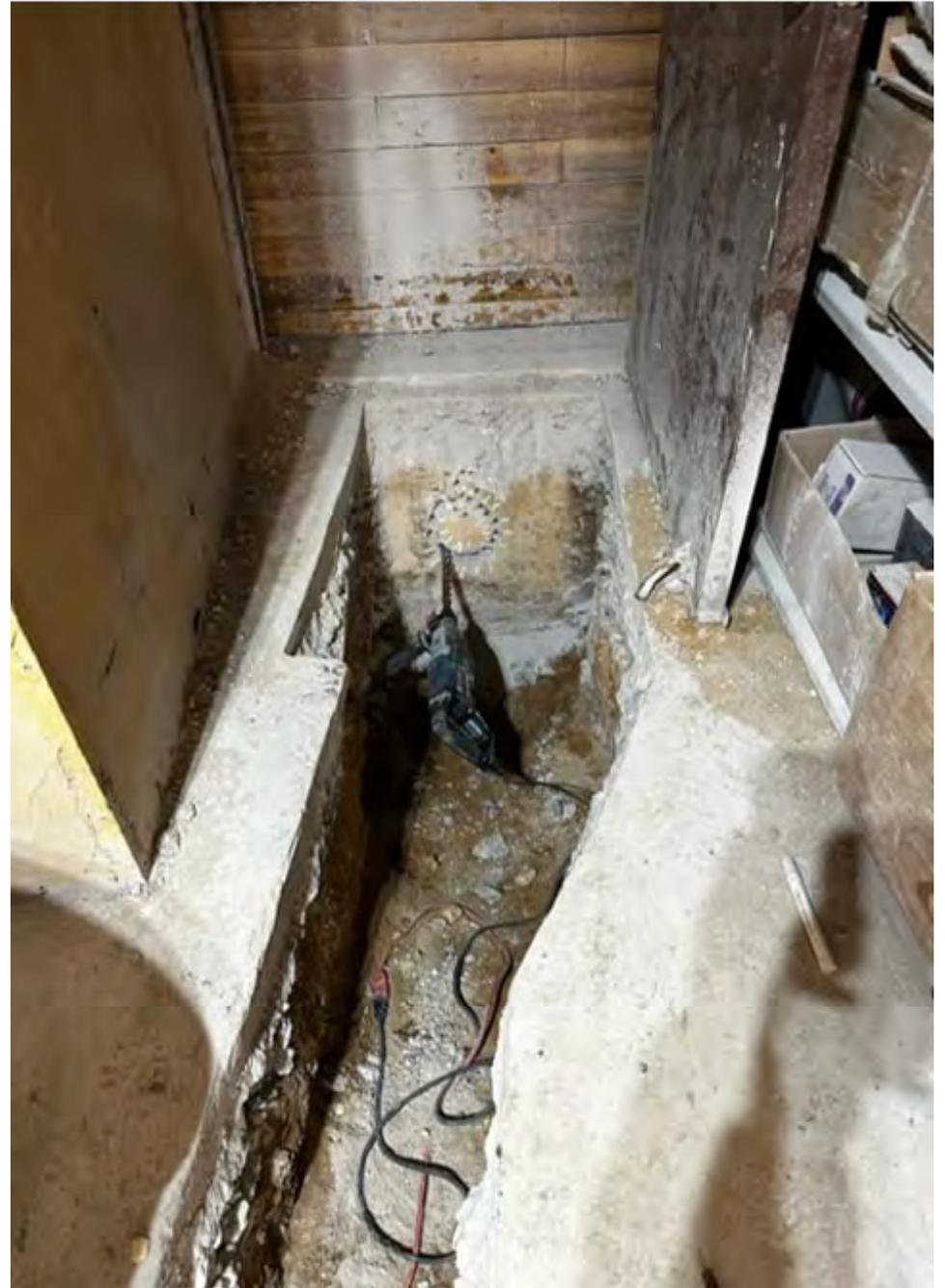






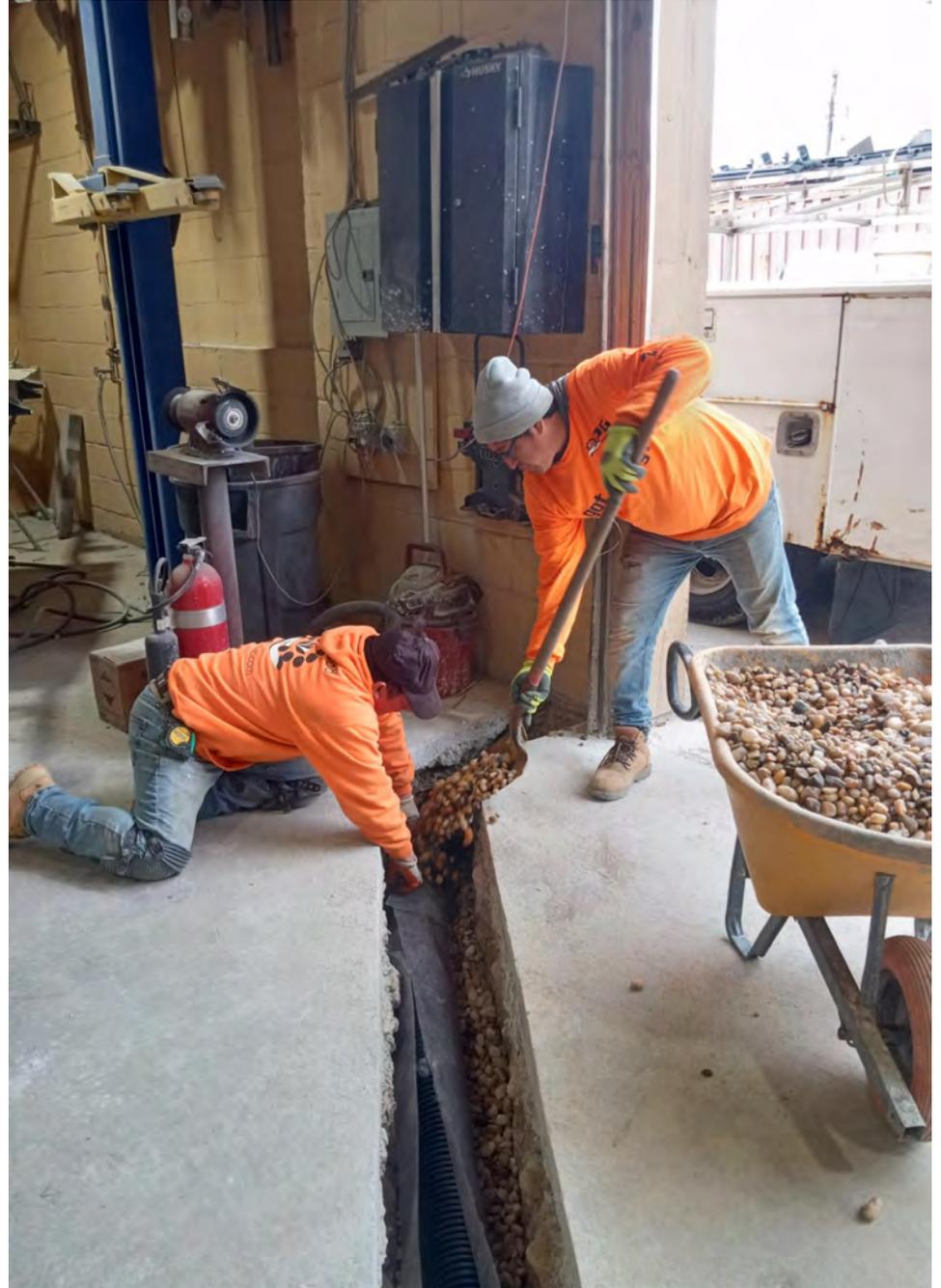


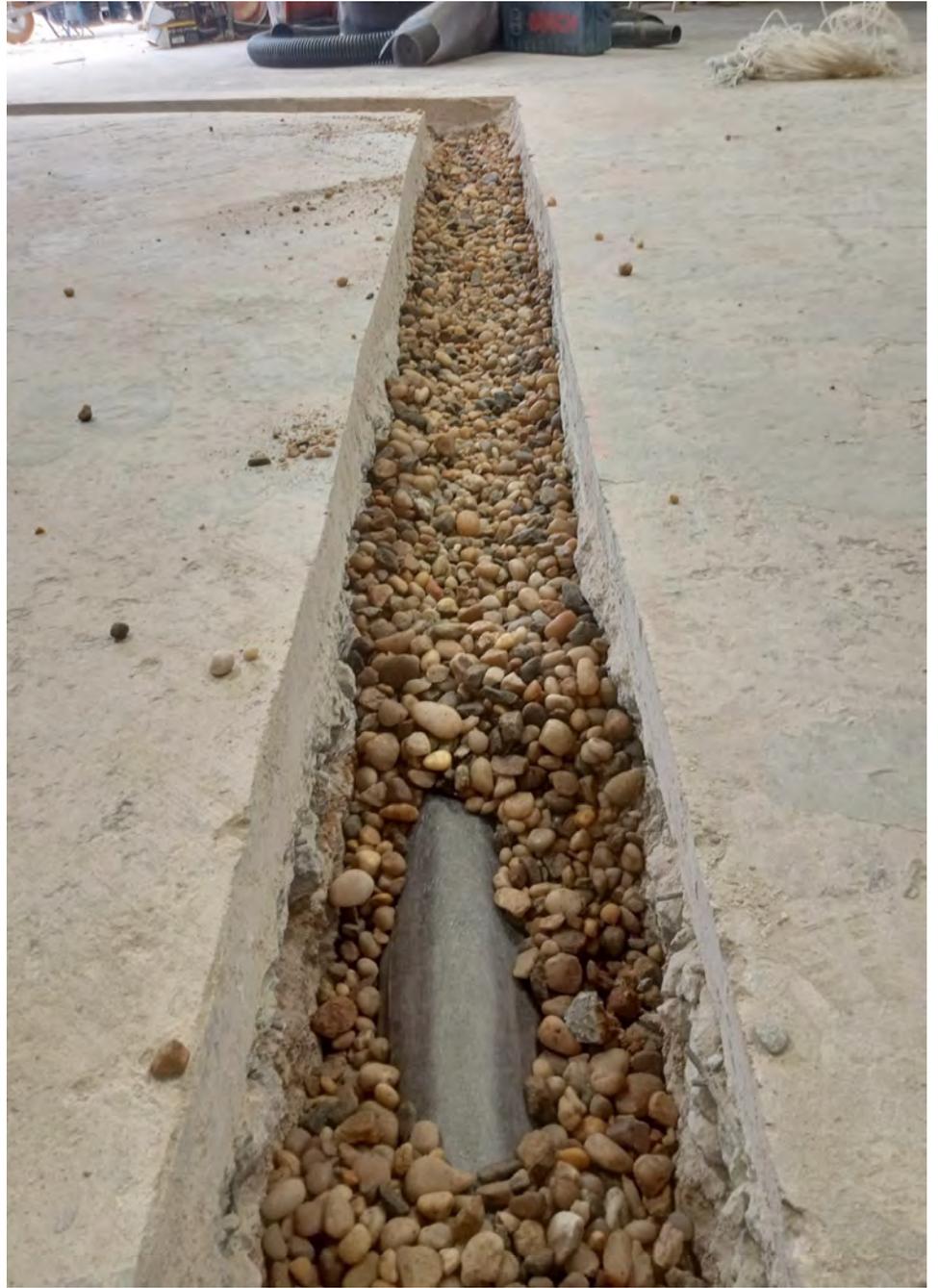


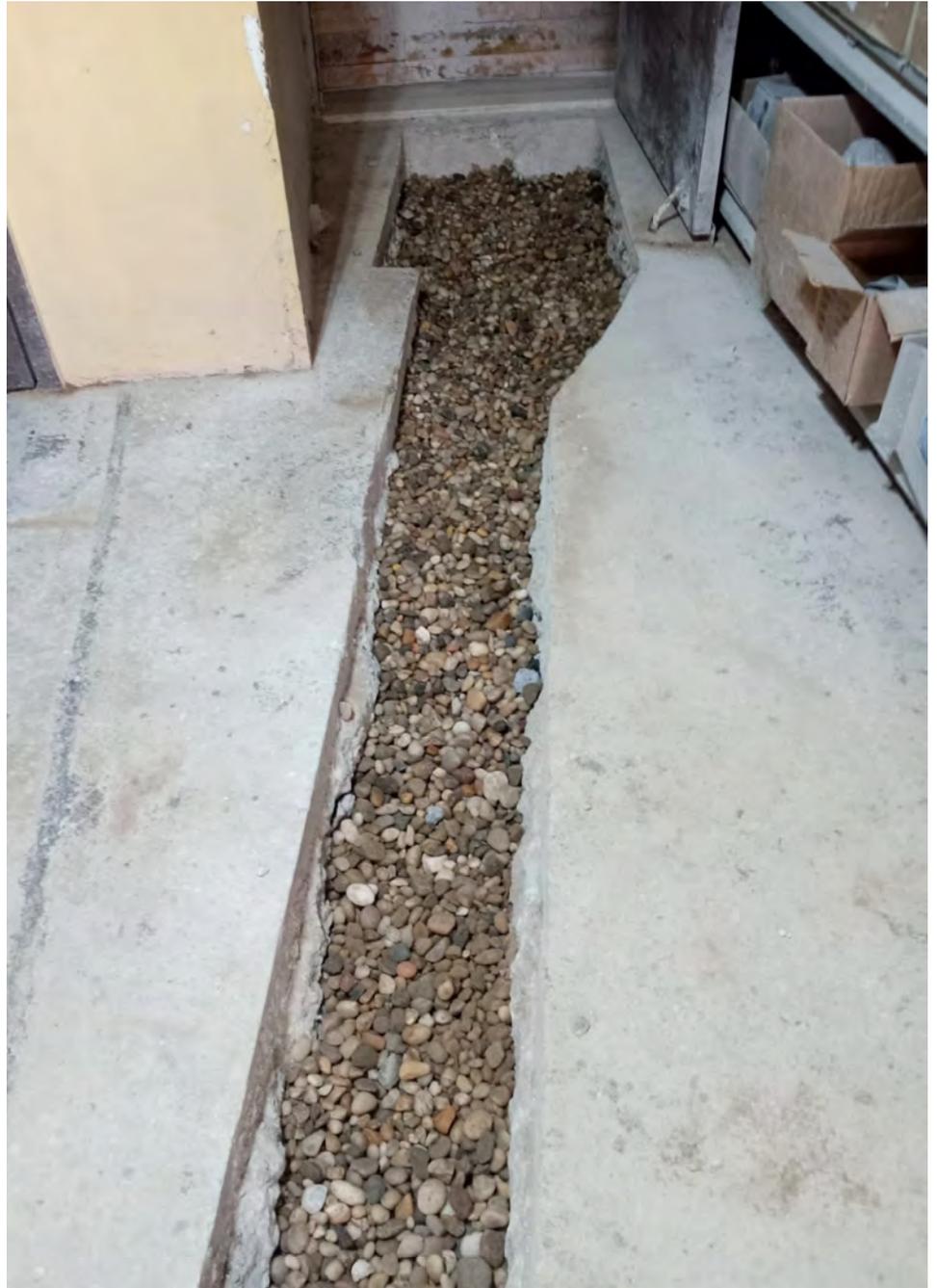




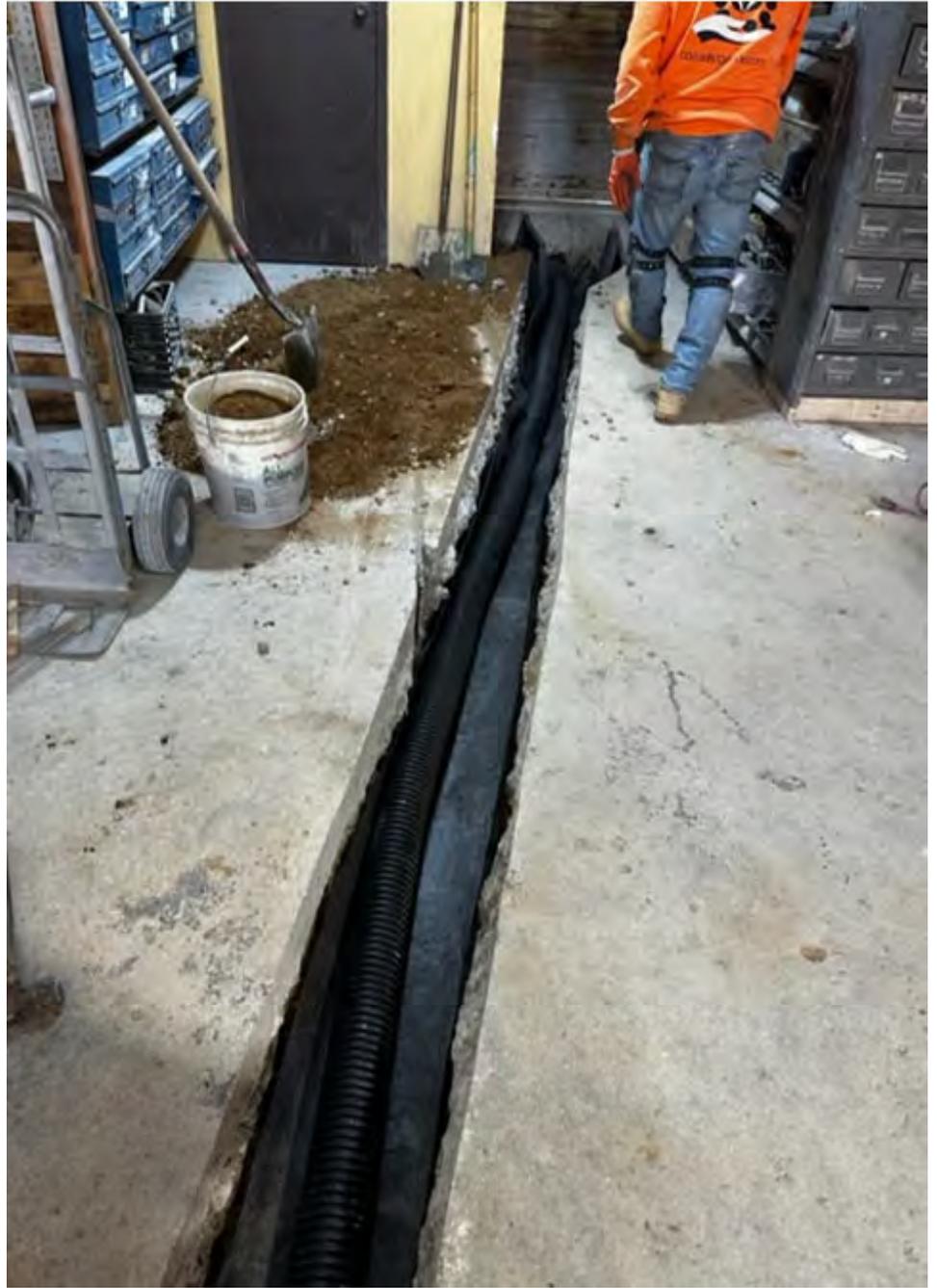


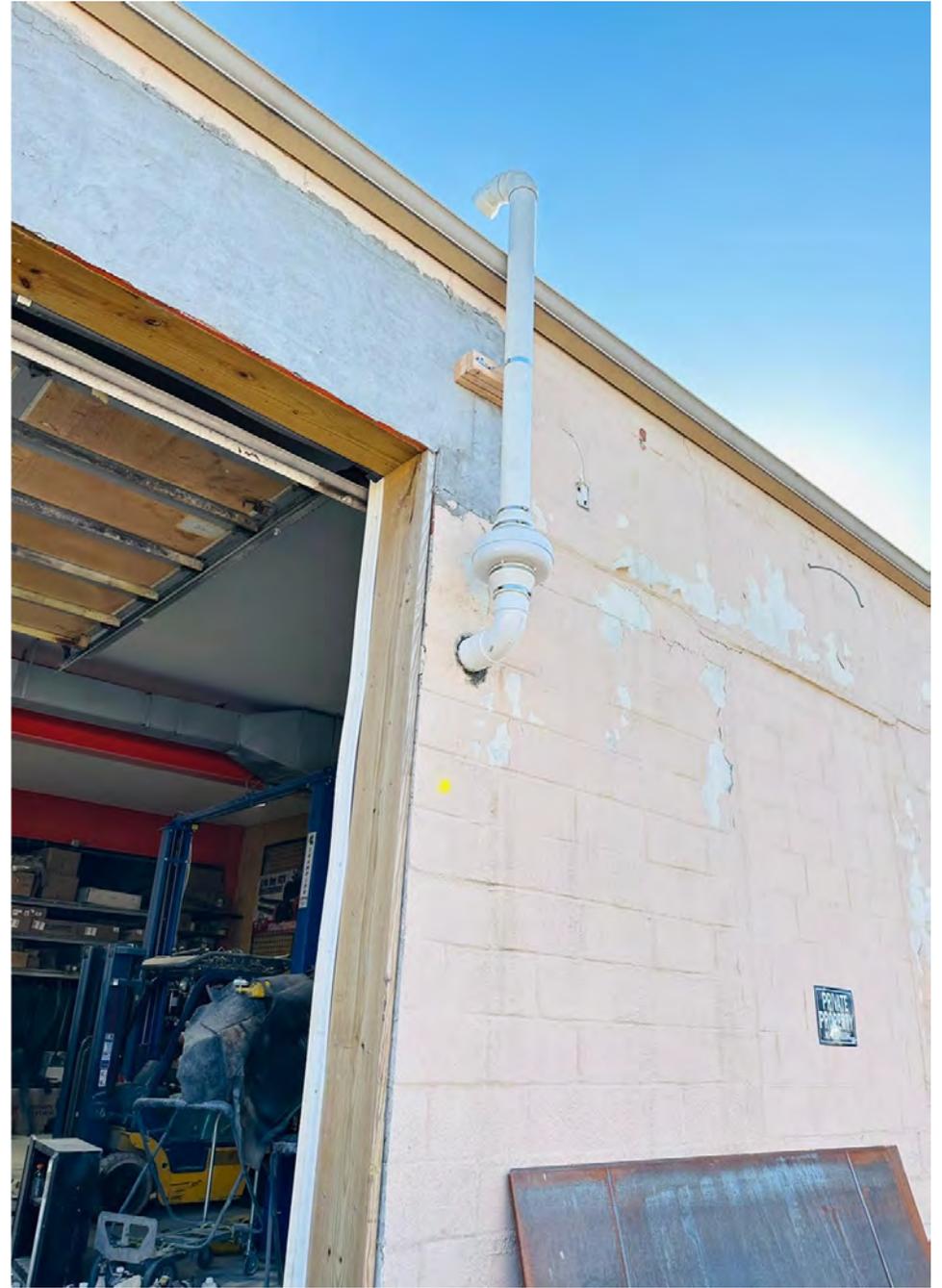
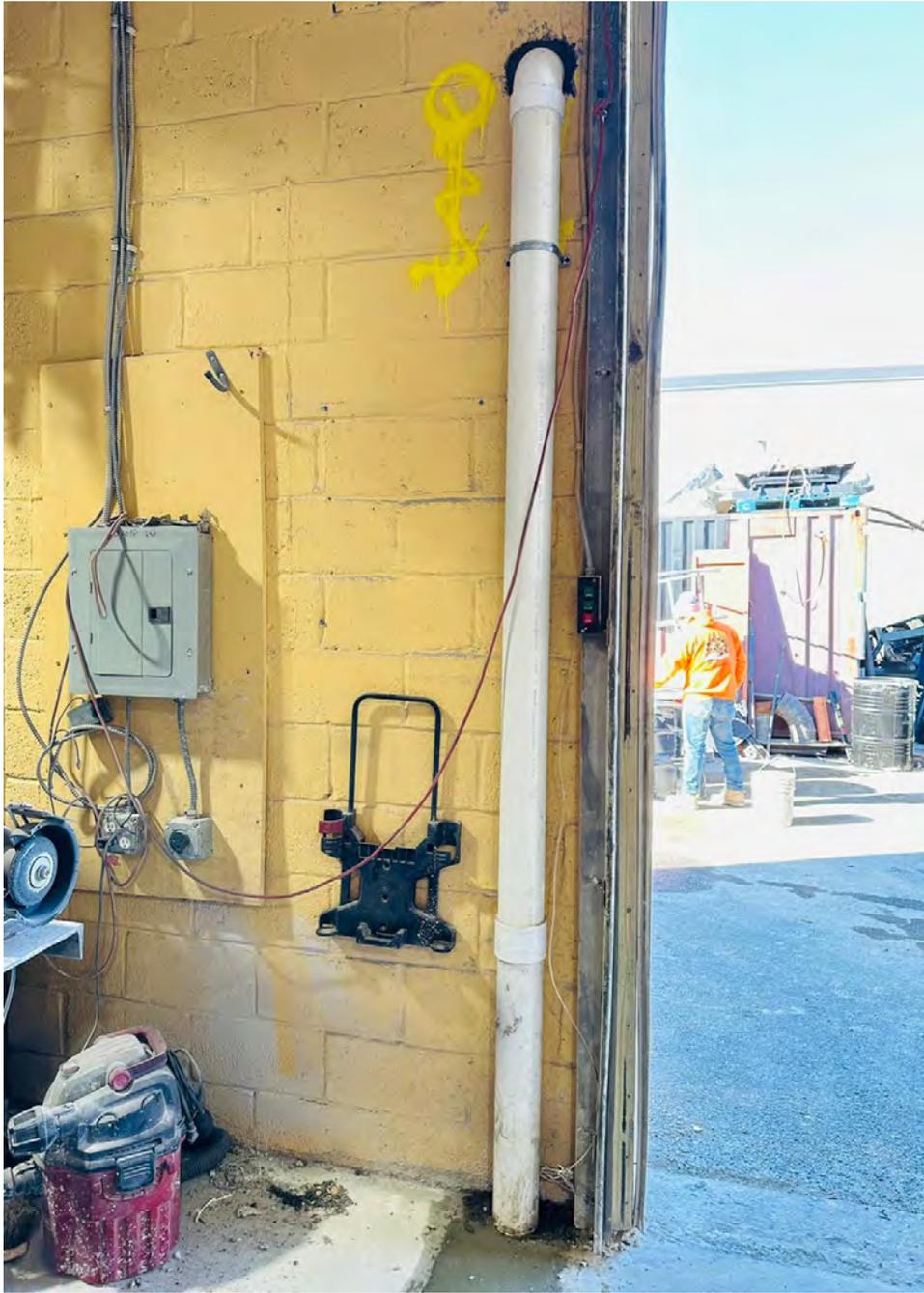


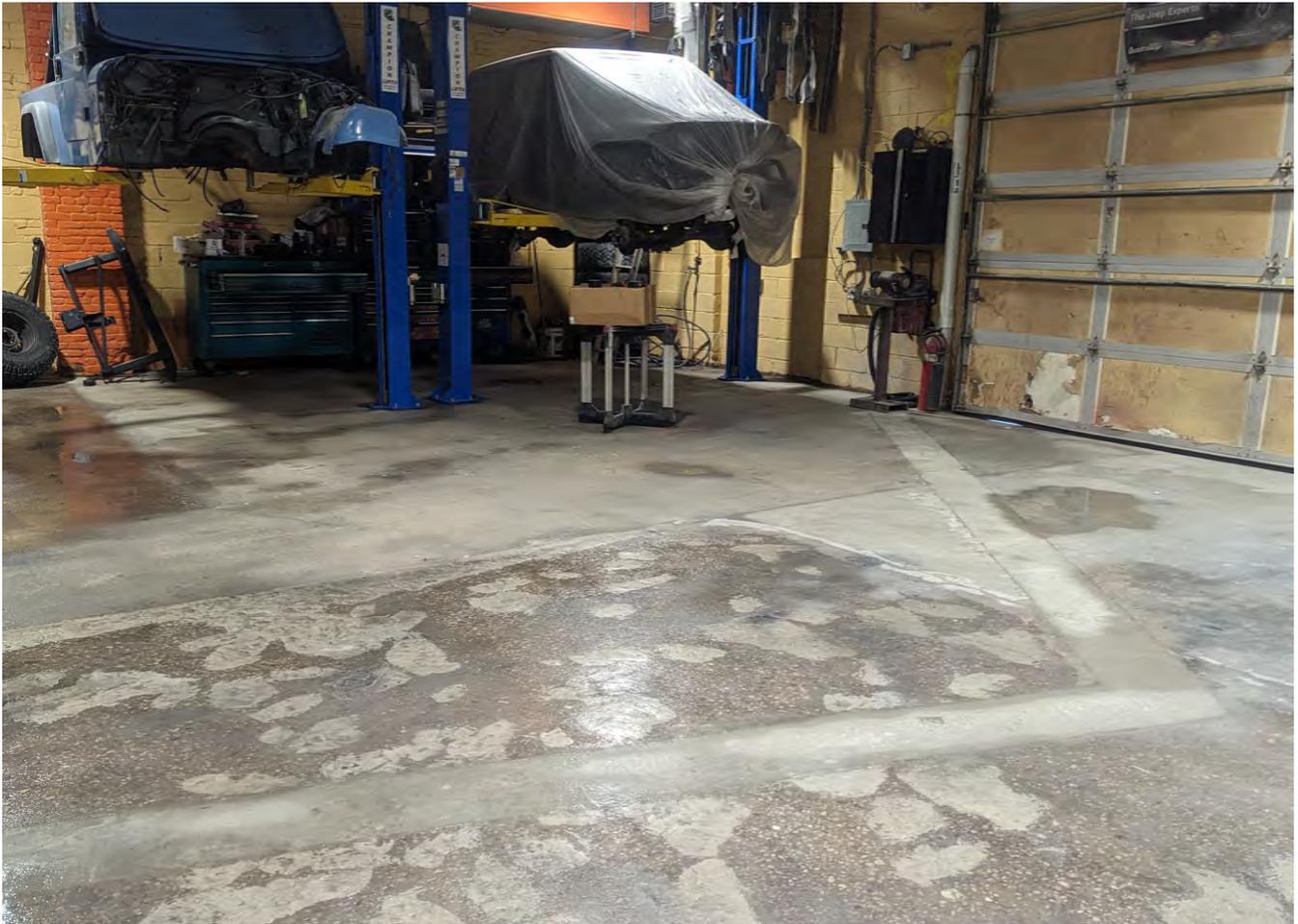


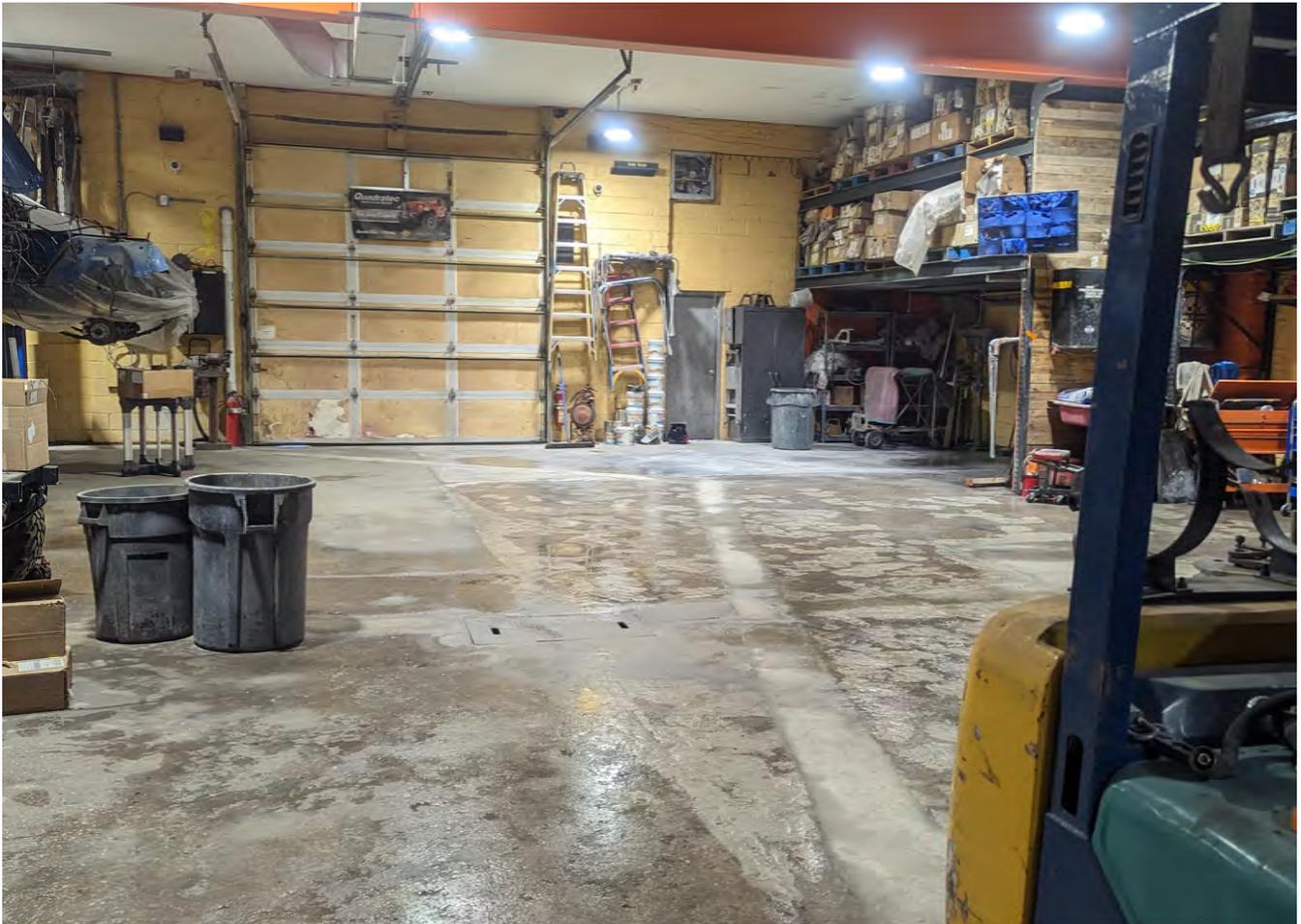








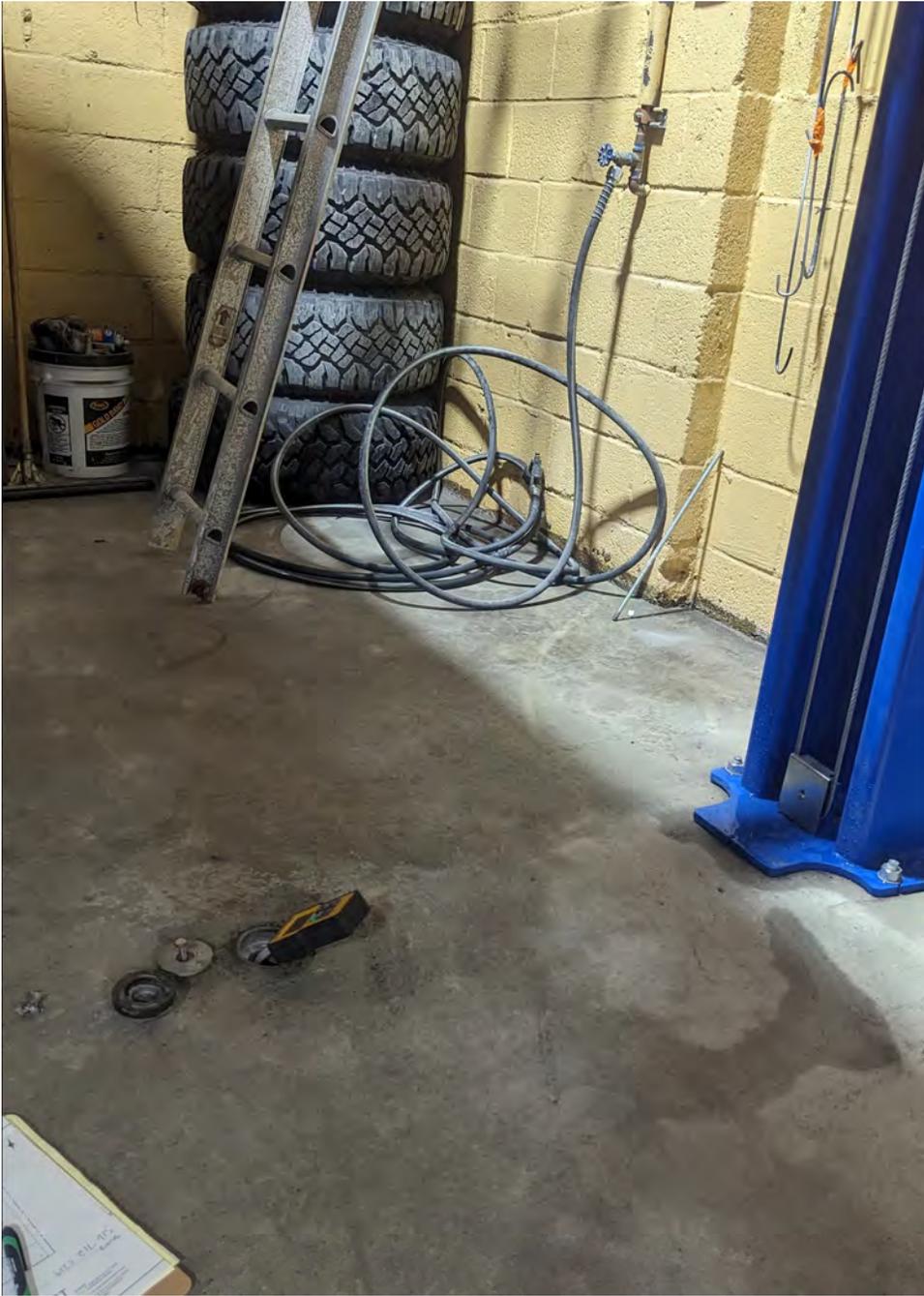


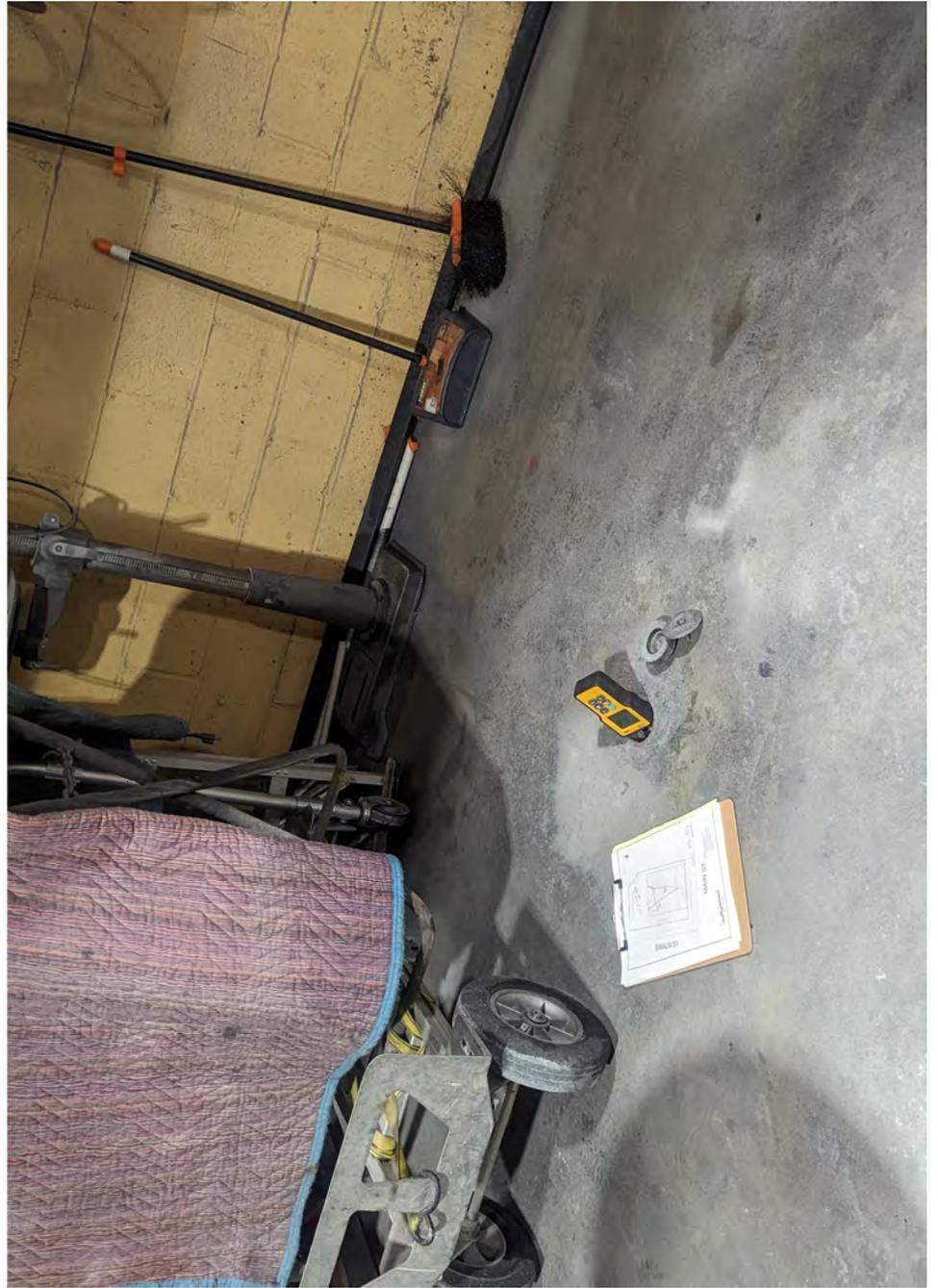
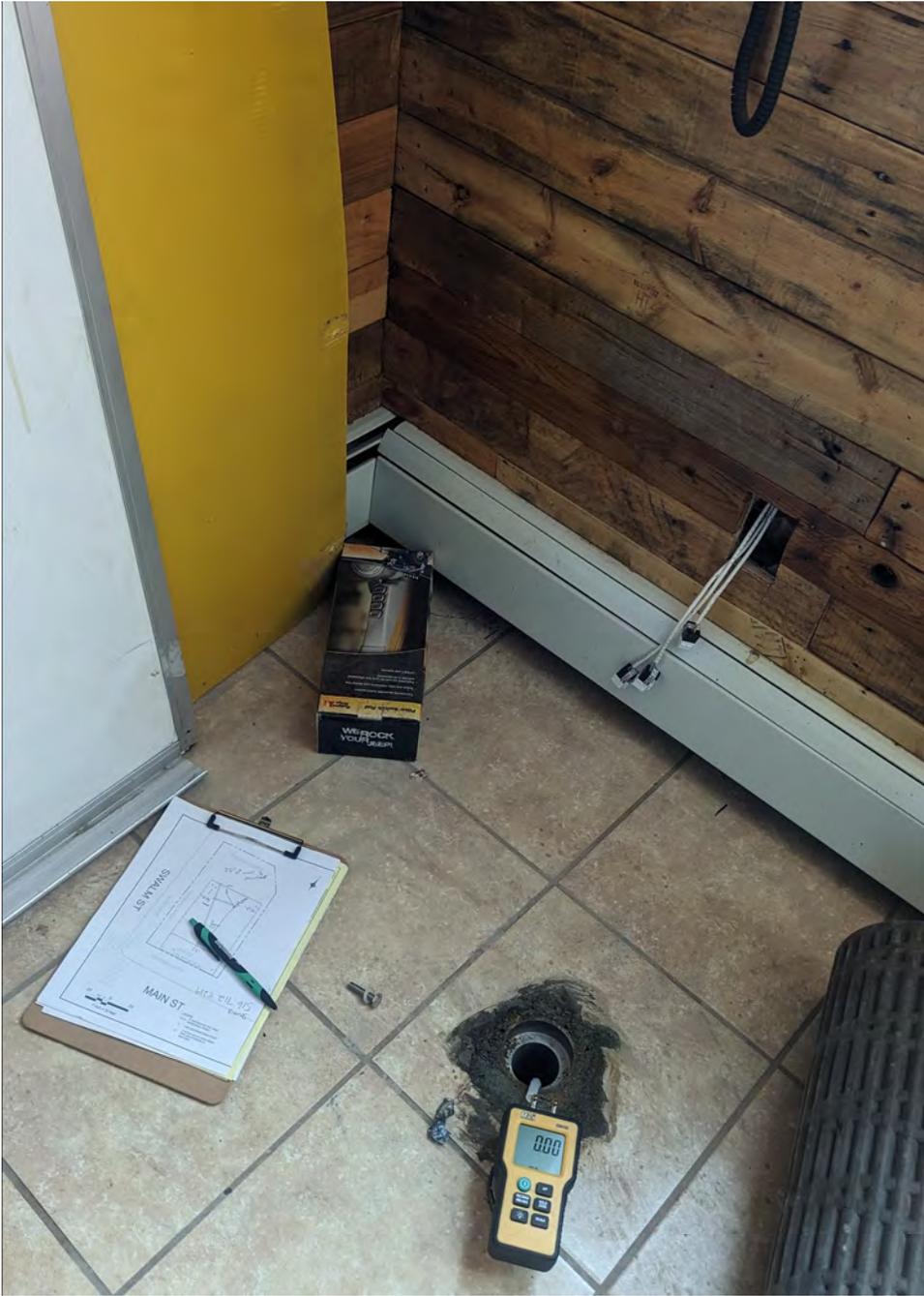






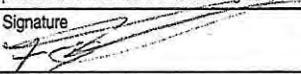
pressure alarm and sample tap were added after 3/22/23 inspection, The Magnehelic gauge was replaced out for a more appropriate range.





Appendix D
Manifests
and
Waste Characterization Lab Report



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N / A	2. Page 1 of 1	3. Emergency Response Phone (267) 406-0083	4. Waste Tracking Number 44557
5. Generator's Name and Mailing Address H.D.P. Printing Industries Corp. 2459 Broadmoor Lane Spring Hill FL 34605		Generator's Site Address (if different than mailing address) H.D.P. Printing Industries Corp. 557 Main Street Westbury NY 11590		
6. Transporter 1 Company Name Innovative Recycling Technologies, Inc		U.S. EPA ID Number NYR000134940		
7. Transporter 2 Company Name Republic Environmental Systems (Trans Group) LLC		U.S. EPA ID Number PAD982661381		
8. Designated Facility Name and Site Address Republic Environmental Systems (PA), LLC 2869 Sandstone Drive Hatfield PA 19440		U.S. EPA ID Number PAD085690592		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
1. Non Hazardous Soil Non-DOT Regulated Material		15	DM	6000
2.				P
3.				
4.				
13. Special Handling Instructions and Additional Information 9.1) Doc#				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offoror's Printed/Typed Name SAMIS		Signature 		Month Day Year 4 20 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Francis McShane		Signature 		Month Day Year 4 20 23
Transporter 2 Printed/Typed Name		Signature		Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____				
17b. Alternate Facility (or Generator)				U.S. EPA ID Number
Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)				Month Day Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



Technical Report

prepared for:

PG Environmental Services

175 Commerce Dr Suite P

Hauppauge NY, 11788

Attention: Carlos Quinonez

Report Date: 03/31/2023

Client Project ID: 567 Main Street Westbury, NY

York Project (SDG) No.: 23C1302

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 03/31/2023
Client Project ID: 567 Main Street Westbury, NY
York Project (SDG) No.: 23C1302

PG Environmental Services
175 Commerce Dr Suite P
Hauppauge NY, 11788
Attention: Carlos Quinonez

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 March 23, 2023 and listed below. The project was identified as your project: **567 Main Street Westbury, NY**.

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>
23C1302-01	Drum 1	Soil	03/22/2023	03/23/2023

General Notes for York Project (SDG) No.: 23C1302

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: 

Cassie L. Mosher
Laboratory Manager

Date: 03/31/2023





Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1302	567 Main Street Westbury, NY	Soil	March 22, 2023 1:00 pm	03/23/2023

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		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:16	FTR
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:16	FTR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR



Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

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		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
67-64-1	Acetone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR



Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

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		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/24/2023 09:00	03/24/2023 13:16	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723	03/24/2023 09:00	03/24/2023 13:16	FTR
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/24/2023 09:00	03/24/2023 13:16	FTR
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:16	FTR

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

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
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	100 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	101 %			76-130						

Polychlorinated Biphenyls (PCB)

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
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/28/2023 08:05	03/30/2023 09:10	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications:	03/28/2023 08:05	03/30/2023 09:10	BCJ
	Surrogate Recoveries	Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	74.5 %					30-140			
2051-24-3	Surrogate: Decachlorobiphenyl	71.5 %					30-140			

Metals, RCRA

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	2.52		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW
7440-39-3	Barium	630		mg/kg dry	1.78	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW
7440-43-9	Cadmium	0.255		mg/kg dry	0.214	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW
7440-47-3	Chromium	11.1		mg/kg dry	0.357	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW



Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

Metals, RCRA

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	116		mg/kg dry	0.357	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW
7782-49-2	Selenium	ND		mg/kg dry	1.78	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW
7440-22-4	Silver	ND		mg/kg dry	0.359	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/28/2023 16:58	03/30/2023 14:45	CW

Metals, TCLP RCRA

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7439-92-1	Lead	0.630		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/29/2023 15:34	03/30/2023 19:03	CW

Mercury by 7473

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.441		mg/kg dry	0.0308	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	03/30/2023 18:28	03/30/2023 19:04	ZTS

Mercury, TCLP

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH-PH-0723,NJDEP,PADEP,NELAC-NY10854	03/30/2023 08:09	03/30/2023 08:09	MR

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.31		pH units	0.500	1	EPA 9045D	03/23/2023 14:43	03/23/2023 21:41	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,PADEP		

Reactivity-Cyanide

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	03/24/2023 14:43	03/24/2023 18:57	SL
							Certifications:	CTDOH-PH-0723,PADEP		

Reactivity-Sulfide

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	03/24/2023 14:45	03/24/2023 21:23	SL
							Certifications:	CTDOH-PH-0723,PADEP		

Temperature

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	22.3		°C	1.00	1	EPA 170.1	03/23/2023 14:43	03/23/2023 21:41	SL
							Certifications:			

Ignitability

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P	03/27/2023 08:13	03/27/2023 08:53	AD2
							Certifications:			

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	97.4		%	0.100	1	SM 2540G	03/30/2023 07:41	03/30/2023 14:05	sgs
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: VOA-CONT

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: Drum 1

York Sample ID: 23C1302-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23C1302

567 Main Street Westbury, NY

Soil

March 22, 2023 1:00 pm

03/23/2023

TCLP Extraction for METALS EPA 1311

Log-in Notes: VOA-CONT

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	03/25/2023 16:17	03/26/2023 09:21	LC



Analytical Batch Summary

Batch ID: BC31600 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/23/23
BC31600-DUP1	Duplicate	03/23/23

Batch ID: BC31624 **Preparation Method:** EPA 5035A **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/24/23
BC31624-BLK1	Blank	03/24/23
BC31624-BS1	LCS	03/24/23
BC31624-BSD1	LCS Dup	03/24/23
BC31624-MS1	Matrix Spike	03/24/23
BC31624-MSD1	Matrix Spike Dup	03/24/23

Batch ID: BC31674 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/24/23
BC31674-BLK1	Blank	03/24/23

Batch ID: BC31675 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/24/23
BC31675-BLK1	Blank	03/24/23
BC31675-DUP1	Duplicate	03/24/23

Batch ID: BC31700 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/25/23
BC31700-BLK1	Blank	03/25/23

Batch ID: BC31726 **Preparation Method:** Analysis Preparation **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/27/23

Batch ID: BC31759 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/28/23



BC31759-BLK2 Blank 03/28/23
 BC31759-BS2 LCS 03/28/23

Batch ID: BC31886 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/28/23
BC31886-BLK1	Blank	03/28/23
BC31886-DUP1	Duplicate	03/28/23
BC31886-MS1	Matrix Spike	03/28/23
BC31886-PS1	Post Spike	03/28/23
BC31886-SRM1	Reference	03/28/23

Batch ID: BC31988 **Preparation Method:** EPA 3015A/1311 **Prepared By:** MCS

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/29/23
BC31988-BLK1	Blank	03/29/23
BC31988-BS1	LCS	03/29/23
BC31988-DUP1	Duplicate	03/29/23
BC31988-LBK1	Leach Fluid Blank	03/29/23
BC31988-MS1	Matrix Spike	03/29/23
BC31988-PS1	Post Spike	03/29/23

Batch ID: BC32005 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/30/23
BC32005-DUP1	Duplicate	03/30/23

Batch ID: BC32012 **Preparation Method:** EPA SW846-7470A **Prepared By:** MR

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/30/23
BC32012-BLK1	Blank	03/30/23
BC32012-BLK2	Blank	03/30/23
BC32012-BS1	LCS	03/30/23
BC32012-BS2	LCS	03/30/23

Batch ID: BC32070 **Preparation Method:** EPA 7473 soil **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
23C1302-01	Drum 1	03/30/23
BC32070-BLK1	Blank	03/30/23
BC32070-DUP1	Duplicate	03/30/23
BC32070-MS1	Matrix Spike	03/30/23
BC32070-SRM1	Reference	03/30/23





Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31624 - EPA 5035A

Blank (BC31624-BLK1)

Prepared & Analyzed: 03/24/2023

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31624 - EPA 5035A

Blank (BC31624-BLK1)

Prepared & Analyzed: 03/24/2023

Methylene chloride	ND	10	ug/kg wet								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.9</i>	<i>76-130</i>				

LCS (BC31624-BS1)

Prepared & Analyzed: 03/24/2023

1,1,1,2-Tetrachloroethane	50		ug/L	50.0		101	75-129				
1,1,1-Trichloroethane	51		"	50.0		101	71-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		100	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	52		"	50.0		103	75-130				
1,1-Dichloroethylene	52		"	50.0		104	64-137				
1,2,3-Trichlorobenzene	50		"	50.0		100	81-140				
1,2,3-Trichloropropane	48		"	50.0		96.9	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		99.7	80-141				
1,2,4-Trimethylbenzene	50		"	50.0		99.9	84-125				
1,2-Dibromo-3-chloropropane	50		"	50.0		100	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	51		"	50.0		102	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	52		"	50.0		105	81-122				
1,3,5-Trimethylbenzene	51		"	50.0		101	82-126				
1,3-Dichlorobenzene	50		"	50.0		99.8	84-124				
1,4-Dichlorobenzene	49		"	50.0		98.3	84-124				
1,4-Dioxane	1000		"	1050		98.5	10-228				
2-Butanone	51		"	50.0		102	58-147				
2-Hexanone	50		"	50.0		99.8	70-139				
4-Methyl-2-pentanone	53		"	50.0		106	72-132				
Acetone	39		"	50.0		78.5	36-155				
Acrolein	53		"	50.0		106	10-238				
Acrylonitrile	53		"	50.0		107	66-141				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BC31624 - EPA 5035A

LCS (BC31624-BS1)

Prepared & Analyzed: 03/24/2023

Benzene	50		ug/L	50.0		101		77-127			
Bromochloromethane	54		"	50.0		108		74-129			
Bromodichloromethane	51		"	50.0		102		81-124			
Bromoform	56		"	50.0		112		80-136			
Bromomethane	49		"	50.0		98.0		32-177			
Carbon disulfide	50		"	50.0		99.7		10-136			
Carbon tetrachloride	53		"	50.0		107		66-143			
Chlorobenzene	53		"	50.0		105		86-120			
Chloroethane	53		"	50.0		106		51-142			
Chloroform	53		"	50.0		107		76-131			
Chloromethane	39		"	50.0		77.5		49-132			
cis-1,2-Dichloroethylene	53		"	50.0		106		74-132			
cis-1,3-Dichloropropylene	49		"	50.0		98.7		81-129			
Cyclohexane	48		"	50.0		95.0		70-130			
Dibromochloromethane	52		"	50.0		104		10-200			
Dibromomethane	51		"	50.0		102		83-124			
Dichlorodifluoromethane	27		"	50.0		54.7		28-158			
Ethyl Benzene	51		"	50.0		103		84-125			
Hexachlorobutadiene	51		"	50.0		101		83-133			
Isopropylbenzene	49		"	50.0		97.3		81-127			
Methyl acetate	50		"	50.0		99.9		41-143			
Methyl tert-butyl ether (MTBE)	51		"	50.0		101		74-131			
Methylcyclohexane	46		"	50.0		92.8		70-130			
Methylene chloride	51		"	50.0		103		57-141			
n-Butylbenzene	50		"	50.0		101		80-130			
n-Propylbenzene	49		"	50.0		97.9		74-136			
o-Xylene	52		"	50.0		104		83-123			
p- & m- Xylenes	100		"	100		104		82-128			
p-Isopropyltoluene	50		"	50.0		99.2		85-125			
sec-Butylbenzene	51		"	50.0		101		83-125			
Styrene	50		"	50.0		99.2		86-126			
tert-Butyl alcohol (TBA)	250		"	250		100		70-130			
tert-Butylbenzene	50		"	50.0		100		80-127			
Tetrachloroethylene	43		"	50.0		86.9		80-129			
Toluene	50		"	50.0		99.8		85-121			
trans-1,2-Dichloroethylene	51		"	50.0		103		72-132			
trans-1,3-Dichloropropylene	48		"	50.0		96.3		78-132			
trans-1,4-dichloro-2-butene	50		"	50.0		101		75-135			
Trichloroethylene	51		"	50.0		102		84-123			
Trichlorofluoromethane	47		"	50.0		93.5		62-140			
Vinyl Chloride	45		"	50.0		90.3		52-130			
Surrogate: SURR: 1,2-Dichloroethane-d4	51.2		"	50.0		102		77-125			
Surrogate: SURR: Toluene-d8	50.0		"	50.0		100		85-120			
Surrogate: SURR: p-Bromofluorobenzene	46.1		"	50.0		92.2		76-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31624 - EPA 5035A											
LCS Dup (BC31624-BSD1)											
Prepared & Analyzed: 03/24/2023											
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		98.9	75-129		1.64	30	
1,1,1-Trichloroethane	49		"	50.0		98.6	71-137		2.50	30	
1,1,2,2-Tetrachloroethane	53		"	50.0		105	79-129		4.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.5	58-146		3.33	30	
1,1,2-Trichloroethane	48		"	50.0		95.7	83-123		6.53	30	
1,1-Dichloroethane	47		"	50.0		93.4	75-130		10.1	30	
1,1-Dichloroethylene	48		"	50.0		96.5	64-137		7.21	30	
1,2,3-Trichlorobenzene	51		"	50.0		101	81-140		1.09	30	
1,2,3-Trichloropropane	52		"	50.0		104	81-126		7.15	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		2.18	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		2.22	30	
1,2-Dibromo-3-chloropropane	49		"	50.0		98.7	74-142		1.53	30	
1,2-Dibromoethane	48		"	50.0		95.9	86-123		7.99	30	
1,2-Dichlorobenzene	53		"	50.0		105	85-122		3.03	30	
1,2-Dichloroethane	51		"	50.0		102	71-133		5.60	30	
1,2-Dichloropropane	47		"	50.0		94.2	81-122		10.6	30	
1,3,5-Trimethylbenzene	52		"	50.0		104	82-126		2.56	30	
1,3-Dichlorobenzene	51		"	50.0		102	84-124		2.08	30	
1,4-Dichlorobenzene	50		"	50.0		101	84-124		2.35	30	
1,4-Dioxane	960		"	1050		91.6	10-228		7.24	30	
2-Butanone	23		"	50.0		46.6	58-147	Low Bias	74.2	30	Non-dir.
2-Hexanone	47		"	50.0		93.1	70-139		6.95	30	
4-Methyl-2-pentanone	49		"	50.0		98.6	72-132		7.03	30	
Acetone	38		"	50.0		75.2	36-155		4.29	30	
Acrolein	47		"	50.0		93.5	10-238		12.7	30	
Acrylonitrile	50		"	50.0		99.4	66-141		7.21	30	
Benzene	51		"	50.0		101	77-127		0.396	30	
Bromochloromethane	51		"	50.0		103	74-129		5.15	30	
Bromodichloromethane	47		"	50.0		94.0	81-124		8.19	30	
Bromoform	53		"	50.0		106	80-136		5.04	30	
Bromomethane	47		"	50.0		94.6	32-177		3.53	30	
Carbon disulfide	48		"	50.0		96.4	10-136		3.30	30	
Carbon tetrachloride	52		"	50.0		104	66-143		2.77	30	
Chlorobenzene	52		"	50.0		104	86-120		0.953	30	
Chloroethane	50		"	50.0		99.3	51-142		6.85	30	
Chloroform	50		"	50.0		101	76-131		5.64	30	
Chloromethane	37		"	50.0		74.8	49-132		3.49	30	
cis-1,2-Dichloroethylene	49		"	50.0		98.0	74-132		7.77	30	
cis-1,3-Dichloropropylene	45		"	50.0		90.5	81-129		8.67	30	
Cyclohexane	46		"	50.0		92.6	70-130		2.54	30	
Dibromochloromethane	50		"	50.0		99.6	10-200		4.30	30	
Dibromomethane	46		"	50.0		91.1	83-124		11.0	30	
Dichlorodifluoromethane	28		"	50.0		55.3	28-158		1.13	30	
Ethyl Benzene	50		"	50.0		99.6	84-125		3.10	30	
Hexachlorobutadiene	51		"	50.0		102	83-133		0.749	30	
Isopropylbenzene	51		"	50.0		103	81-127		5.44	30	
Methyl acetate	46		"	50.0		92.1	41-143		8.06	30	
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.9	74-131		5.63	30	
Methylcyclohexane	43		"	50.0		86.2	70-130		7.31	30	
Methylene chloride	50		"	50.0		100	57-141		2.44	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31624 - EPA 5035A

LCS Dup (BC31624-BSD1)

Prepared & Analyzed: 03/24/2023

n-Butylbenzene	51		ug/L	50.0		102	80-130		0.948	30	
n-Propylbenzene	51		"	50.0		102	74-136		3.85	30	
o-Xylene	50		"	50.0		99.7	83-123		4.05	30	
p- & m- Xylenes	98		"	100		97.6	82-128		6.31	30	
p-Isopropyltoluene	51		"	50.0		102	85-125		2.39	30	
sec-Butylbenzene	52		"	50.0		104	83-125		2.81	30	
Styrene	48		"	50.0		96.4	86-126		2.88	30	
tert-Butyl alcohol (TBA)	250		"	250		99.6	70-130		0.692	30	
tert-Butylbenzene	52		"	50.0		104	80-127		3.99	30	
Tetrachloroethylene	42		"	50.0		83.5	80-129		4.04	30	
Toluene	48		"	50.0		96.6	85-121		3.24	30	
trans-1,2-Dichloroethylene	48		"	50.0		97.0	72-132		5.88	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.5	78-132		2.91	30	
trans-1,4-dichloro-2-butene	52		"	50.0		103	75-135		1.98	30	
Trichloroethylene	47		"	50.0		93.0	84-123		9.33	30	
Trichlorofluoromethane	47		"	50.0		93.8	62-140		0.363	30	
Vinyl Chloride	44		"	50.0		87.9	52-130		2.69	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	50.7		"	50.0		101	77-125				
Surrogate: SURRE: Toluene-d8	48.7		"	50.0		97.5	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.4		"	50.0		98.9	76-130				

Matrix Spike (BC31624-MS1)

*Source sample: 23C1302-01 (Drum 1)

Prepared & Analyzed: 03/24/2023

1,1,1,2-Tetrachloroethane	41		ug/L	50.0	0.0	81.1	15-161				
1,1,1-Trichloroethane	41		"	50.0	0.0	82.5	42-145				
1,1,2,2-Tetrachloroethane	41		"	50.0	0.0	82.9	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	38		"	50.0	0.0	76.3	11-160				
1,1,2-Trichloroethane	43		"	50.0	0.0	86.6	44-145				
1,1-Dichloroethane	43		"	50.0	0.0	85.0	46-142				
1,1-Dichloroethylene	40		"	50.0	0.0	80.5	30-153				
1,2,3-Trichlorobenzene	29		"	50.0	0.0	57.1	10-157				
1,2,3-Trichloropropane	43		"	50.0	0.0	86.8	38-155				
1,2,4-Trichlorobenzene	28		"	50.0	0.0	55.7	10-151				
1,2,4-Trimethylbenzene	35		"	50.0	0.0	69.3	10-170				
1,2-Dibromo-3-chloropropane	42		"	50.0	0.0	84.5	36-138				
1,2-Dibromoethane	44		"	50.0	0.0	87.6	40-142				
1,2-Dichlorobenzene	37		"	50.0	0.0	73.2	10-147				
1,2-Dichloroethane	46		"	50.0	0.0	91.0	48-133				
1,2-Dichloropropane	45		"	50.0	0.0	90.0	47-141				
1,3,5-Trimethylbenzene	34		"	50.0	0.0	69.0	10-150				
1,3-Dichlorobenzene	34		"	50.0	0.0	68.5	10-144				
1,4-Dichlorobenzene	34		"	50.0	0.0	68.4	10-160				
1,4-Dioxane	950		"	1050	0.0	90.1	10-191				
2-Butanone	37		"	50.0	0.0	74.3	10-189				
2-Hexanone	34		"	50.0	0.0	68.2	10-181				
4-Methyl-2-pentanone	44		"	50.0	0.0	87.7	10-166				
Acetone	33		"	50.0	0.0	66.9	10-196				
Acrolein	1.5		"	50.0	0.0	2.98	10-192	Low Bias			
Acrylonitrile	35		"	50.0	0.0	69.8	13-161				
Benzene	41		"	50.0	0.0	81.4	43-139				
Bromochloromethane	47		"	50.0	0.0	94.8	38-145				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
Batch BC31624 - EPA 5035A											
Matrix Spike (BC31624-MS1)	*Source sample: 23C1302-01 (Drum 1)						Prepared & Analyzed: 03/24/2023				
Bromodichloromethane	42		ug/L	50.0	0.0	83.8	38-147				
Bromoform	47		"	50.0	0.0	93.9	29-156				
Bromomethane	46		"	50.0	0.0	91.0	10-166				
Carbon disulfide	34		"	50.0	0.29	68.4	10-131				
Carbon tetrachloride	43		"	50.0	0.0	85.5	35-145				
Chlorobenzene	41		"	50.0	0.0	81.7	21-154				
Chloroethane	47		"	50.0	0.0	93.1	15-160				
Chloroform	43		"	50.0	0.0	86.9	47-142				
Chloromethane	30		"	50.0	0.0	59.2	10-159				
cis-1,2-Dichloroethylene	42		"	50.0	0.0	84.3	42-144				
cis-1,3-Dichloropropylene	39		"	50.0	0.0	78.1	18-159				
Cyclohexane	34		"	50.0	0.0	68.6	70-130	Low Bias			
Dibromochloromethane	44		"	50.0	0.0	87.5	10-179				
Dibromomethane	43		"	50.0	0.0	85.1	47-143				
Dichlorodifluoromethane	19		"	50.0	0.0	37.7	10-145				
Ethyl Benzene	38		"	50.0	0.0	76.5	11-158				
Hexachlorobutadiene	21		"	50.0	0.0	42.9	10-158				
Isopropylbenzene	36		"	50.0	0.0	71.0	10-162				
Methyl acetate	50		"	50.0	0.0	99.5	10-149				
Methyl tert-butyl ether (MTBE)	44		"	50.0	0.0	88.5	42-152				
Methylcyclohexane	29		"	50.0	0.0	58.3	70-130	Low Bias			
Methylene chloride	44		"	50.0	1.4	86.1	28-151				
n-Butylbenzene	29		"	50.0	0.0	57.5	10-162				
n-Propylbenzene	33		"	50.0	0.0	66.9	10-155				
o-Xylene	39		"	50.0	0.0	77.4	10-158				
p- & m- Xylenes	76		"	100	0.0	76.2	10-156				
p-Isopropyltoluene	31		"	50.0	0.0	62.4	10-147				
sec-Butylbenzene	32		"	50.0	0.0	64.7	10-157				
Styrene	37		"	50.0	0.0	74.4	13-171				
tert-Butyl alcohol (TBA)	230		"	250	0.0	90.3	34-179				
tert-Butylbenzene	35		"	50.0	0.0	69.6	10-160				
Tetrachloroethylene	31		"	50.0	0.0	62.2	30-167				
Toluene	39		"	50.0	0.0	77.5	21-160				
trans-1,2-Dichloroethylene	40		"	50.0	0.0	80.1	29-153				
trans-1,3-Dichloropropylene	38		"	50.0	0.0	75.5	18-155				
trans-1,4-dichloro-2-butene	41		"	50.0	0.0	82.2	17-154				
Trichloroethylene	38		"	50.0	0.0	76.7	24-169				
Trichlorofluoromethane	43		"	50.0	0.0	86.3	35-142				
Vinyl Chloride	40		"	50.0	0.0	79.1	12-160				
Surrogate: SURRE: 1,2-Dichloroethane-d4	50.1		"	50.0		100	77-125				
Surrogate: SURRE: Toluene-d8	48.6		"	50.0		97.3	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	46.7		"	50.0		93.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31624 - EPA 5035A											
Matrix Spike Dup (BC31624-MSD1)	*Source sample: 23C1302-01 (Drum 1)						Prepared & Analyzed: 03/24/2023				
1,1,1,2-Tetrachloroethane	41		ug/L	50.0	0.0	82.3	15-161		1.47	33	
1,1,1-Trichloroethane	41		"	50.0	0.0	81.5	42-145		1.22	30	
1,1,2,2-Tetrachloroethane	40		"	50.0	0.0	80.8	16-167		2.59	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0	0.0	80.2	11-160		4.98	31	
1,1,2-Trichloroethane	43		"	50.0	0.0	85.2	44-145		1.68	40	
1,1-Dichloroethane	41		"	50.0	0.0	82.7	46-142		2.79	36	
1,1-Dichloroethylene	42		"	50.0	0.0	83.3	30-153		3.42	31	
1,2,3-Trichlorobenzene	29		"	50.0	0.0	57.2	10-157		0.140	47	
1,2,3-Trichloropropane	42		"	50.0	0.0	84.9	38-155		2.21	48	
1,2,4-Trichlorobenzene	27		"	50.0	0.0	54.5	10-151		2.18	52	
1,2,4-Trimethylbenzene	33		"	50.0	0.0	66.4	10-170		4.22	242	
1,2-Dibromo-3-chloropropane	39		"	50.0	0.0	77.6	36-138		8.53	54	
1,2-Dibromoethane	41		"	50.0	0.0	82.8	40-142		5.66	39	
1,2-Dichlorobenzene	35		"	50.0	0.0	70.8	10-147		3.44	52	
1,2-Dichloroethane	45		"	50.0	0.0	89.7	48-133		1.44	32	
1,2-Dichloropropane	42		"	50.0	0.0	84.1	47-141		6.78	37	
1,3,5-Trimethylbenzene	33		"	50.0	0.0	66.6	10-150		3.48	62	
1,3-Dichlorobenzene	33		"	50.0	0.0	65.4	10-144		4.75	51	
1,4-Dichlorobenzene	33		"	50.0	0.0	65.4	10-160		4.51	52	
1,4-Dioxane	930		"	1050	0.0	88.4	10-191		1.82	196	
2-Butanone	40		"	50.0	0.0	79.5	10-189		6.66	67	
2-Hexanone	31		"	50.0	0.0	61.2	10-181		10.8	60	
4-Methyl-2-pentanone	41		"	50.0	0.0	82.0	10-166		6.70	47	
Acetone	35		"	50.0	0.0	70.1	10-196		4.67	150	
Acrolein	1.1		"	50.0	0.0	2.22	10-192	Low Bias	29.2	128	
Acrylonitrile	39		"	50.0	0.0	77.4	13-161		10.4	48	
Benzene	42		"	50.0	0.0	84.1	43-139		3.36	64	
Bromochloromethane	47		"	50.0	0.0	93.4	38-145		1.49	30	
Bromodichloromethane	41		"	50.0	0.0	82.5	38-147		1.66	37	
Bromoform	45		"	50.0	0.0	90.3	29-156		3.91	51	
Bromomethane	43		"	50.0	0.0	85.5	10-166		6.28	42	
Carbon disulfide	34		"	50.0	0.29	68.3	10-131		0.205	36	
Carbon tetrachloride	43		"	50.0	0.0	85.6	35-145		0.140	31	
Chlorobenzene	40		"	50.0	0.0	79.9	21-154		2.25	32	
Chloroethane	47		"	50.0	0.0	94.0	15-160		0.898	40	
Chloroform	44		"	50.0	0.0	88.1	47-142		1.37	29	
Chloromethane	31		"	50.0	0.0	62.8	10-159		5.93	31	
cis-1,2-Dichloroethylene	42		"	50.0	0.0	84.0	42-144		0.333	30	
cis-1,3-Dichloropropylene	37		"	50.0	0.0	74.9	18-159		4.18	39	
Cyclohexane	34		"	50.0	0.0	68.9	70-130	Low Bias	0.524	30	
Dibromochloromethane	43		"	50.0	0.0	86.7	10-179		1.01	41	
Dibromomethane	41		"	50.0	0.0	81.7	47-143		4.03	41	
Dichlorodifluoromethane	20		"	50.0	0.0	40.2	10-145		6.42	34	
Ethyl Benzene	37		"	50.0	0.0	74.3	11-158		2.92	42	
Hexachlorobutadiene	19		"	50.0	0.0	38.9	10-158		9.82	45	
Isopropylbenzene	35		"	50.0	0.0	69.3	10-162		2.51	57	
Methyl acetate	45		"	50.0	0.0	90.2	10-149		9.85	64	
Methyl tert-butyl ether (MTBE)	45		"	50.0	0.0	89.9	42-152		1.55	47	
Methylcyclohexane	28		"	50.0	0.0	55.6	70-130	Low Bias	4.74	30	
Methylene chloride	44		"	50.0	1.4	85.9	28-151		0.279	49	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31624 - EPA 5035A

Matrix Spike Dup (BC31624-MSD1)	*Source sample: 23C1302-01 (Drum 1)				Prepared & Analyzed: 03/24/2023						
n-Butylbenzene	27		ug/L	50.0	0.0	53.8	10-162		6.58	96	
n-Propylbenzene	33		"	50.0	0.0	66.6	10-155		0.479	56	
o-Xylene	39		"	50.0	0.0	77.3	10-158		0.233	51	
p- & m- Xylenes	73		"	100	0.0	73.1	10-156		4.22	47	
p-Isopropyltoluene	30		"	50.0	0.0	60.1	10-147		3.76	60	
sec-Butylbenzene	31		"	50.0	0.0	61.8	10-157		4.52	56	
Styrene	35		"	50.0	0.0	70.3	13-171		5.64	39	
tert-Butyl alcohol (TBA)	240		"	250	0.0	94.3	34-179		4.29	35	
tert-Butylbenzene	35		"	50.0	0.0	69.0	10-160		0.866	79	
Tetrachloroethylene	31		"	50.0	0.0	61.0	30-167		1.85	33	
Toluene	38		"	50.0	0.0	76.1	21-160		1.74	50	
trans-1,2-Dichloroethylene	39		"	50.0	0.0	78.9	29-153		1.46	30	
trans-1,3-Dichloropropylene	36		"	50.0	0.0	72.8	18-155		3.67	30	
trans-1,4-dichloro-2-butene	42		"	50.0	0.0	83.4	17-154		1.45	30	
Trichloroethylene	37		"	50.0	0.0	74.8	24-169		2.53	30	
Trichlorofluoromethane	44		"	50.0	0.0	88.0	35-142		1.93	30	
Vinyl Chloride	38		"	50.0	0.0	75.0	12-160		5.29	35	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.7</i>	<i>76-130</i>				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31759 - EPA 3550C

Blank (BC31759-BLK2)

Prepared & Analyzed: 03/28/2023

Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0548		"	0.0664		82.5	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0468		"	0.0664		70.5	30-140				

LCS (BC31759-BS2)

Prepared & Analyzed: 03/28/2023

Aroclor 1016	0.248	0.0166	mg/kg wet	0.332		74.8	40-130				
Aroclor 1260	0.232	0.0166	"	0.332		69.7	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0518		"	0.0664		78.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0429		"	0.0664		64.5	30-140				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BC31886 - EPA 3050B

Blank (BC31886-BLK1)

Prepared: 03/28/2023 Analyzed: 03/30/2023

Arsenic	ND	1.04	mg/kg wet										
Barium	ND	1.73	"										
Cadmium	ND	0.208	"										
Chromium	ND	0.348	"										
Lead	ND	0.348	"										
Selenium	ND	1.74	"										
Silver	ND	0.350	"										

Duplicate (BC31886-DUP1)

*Source sample: 23C1472-02 (Duplicate)

Prepared: 03/28/2023 Analyzed: 03/30/2023

Arsenic	ND	1.30	mg/kg dry		1.33								35
Barium	157	2.16	"		138					12.8			35
Cadmium	0.540	0.259	"		0.591					9.01			35
Chromium	75.4	0.433	"		83.7					10.4			35
Lead	48.7	0.433	"		44.0					10.2			35
Selenium	ND	2.16	"		ND								35
Silver	ND	0.436	"		ND								35

Matrix Spike (BC31886-MS1)

*Source sample: 23C1472-02 (Matrix Spike)

Prepared: 03/28/2023 Analyzed: 03/30/2023

Arsenic	185	1.30	mg/kg dry	208	1.33	88.5	75-125						
Barium	332	2.16	"	208	138	93.0	75-125						
Cadmium	5.30	0.259	"	5.19	0.591	90.8	75-125						
Chromium	169	0.433	"	20.8	83.7	412	75-125			High Bias			
Lead	101	0.433	"	51.9	44.0	110	75-125						
Selenium	81.0	2.16	"	208	ND	39.0	75-125			Low Bias			
Silver	ND	0.436	"	5.19	ND		75-125			Low Bias			

Post Spike (BC31886-PS1)

*Source sample: 23C1472-02 (Post Spike)

Prepared: 03/28/2023 Analyzed: 03/30/2023

Arsenic	2.13		mg/L	2.00	0.013	106	75-125						
Barium	3.58		"	2.00	1.33	112	75-125						
Cadmium	0.060		"	0.0500	0.006	108	75-125						
Chromium	1.08		"	0.200	0.807	139	75-125			High Bias			
Lead	0.958		"	0.500	0.424	107	75-125						
Selenium	1.27		"	2.00	-0.503	63.5	75-125			Low Bias			
Silver	-0.071		"	0.0500	-0.103		75-125			Low Bias			



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BC31886 - EPA 3050B

Reference (BC31886-SRM1)

Prepared: 03/28/2023 Analyzed: 03/30/2023

Arsenic	222	1.04	mg/kg wet	183		121	69.9-130.1						
Barium	349	1.73	"	297		117	75.1-125.3						
Cadmium	259	0.208	"	221		117	75.1-124.9						
Chromium	227	0.348	"	200		114	70-130						
Lead	295	0.348	"	257		115	73.9-126.1						
Selenium	200	1.74	"	217		92.0	69.1-131.3						
Silver	72.1	0.350	"	67.8		106	70.6-129.2						

Batch BC31988 - EPA 3015A/1311

Blank (BC31988-BLK1)

Prepared: 03/29/2023 Analyzed: 03/30/2023

Arsenic	ND	0.017	mg/L										
Barium	ND	0.028	"										
Cadmium	ND	0.003	"										
Chromium	ND	0.006	"										
Lead	ND	0.006	"										
Selenium	ND	0.028	"										
Silver	ND	0.006	"										

LCS (BC31988-BS1)

Prepared: 03/29/2023 Analyzed: 03/30/2023

Arsenic	1.73		ug/mL	2.00		86.3	80-120						
Barium	1.93		"	2.00		96.7	80-120						
Cadmium	0.044		"	0.0500		88.3	80-120						
Chromium	0.185		"	0.200		92.4	80-120						
Lead	0.455		"	0.500		91.1	80-120						
Selenium	1.43		"	2.00		71.7	80-120			Low Bias			
Silver	0.046		"	0.0500		92.2	80-120						



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

Batch BC31988 - EPA 3015A/1311

Duplicate (BC31988-DUP1)	*Source sample: 23C1557-06 (Duplicate)						Prepared: 03/29/2023 Analyzed: 03/30/2023				
Arsenic	ND	0.375	mg/L		ND						20
Barium	ND	0.625	"		ND						20
Cadmium	ND	0.075	"		ND						20
Chromium	ND	0.125	"		ND						20
Lead	ND	0.125	"		ND						20
Selenium	ND	0.625	"		ND						20
Silver	ND	0.125	"		ND						20

Leach Fluid Blank (BC31988-LBK1)	*Source sample: 23C1557-06 (Duplicate)						Prepared: 03/29/2023 Analyzed: 03/30/2023				
Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								

Matrix Spike (BC31988-MS1)	*Source sample: 23C1557-06 (Matrix Spike)						Prepared: 03/29/2023 Analyzed: 03/30/2023				
Arsenic	40.9	0.375	mg/L	50.0	ND	81.9	75-125				
Barium	45.3	0.625	"	50.0	ND	90.6	75-125				
Cadmium	1.02	0.075	"	1.25	ND	81.8	75-125				
Chromium	4.30	0.125	"	5.00	ND	86.1	75-125				
Lead	10.6	0.125	"	12.5	ND	84.4	75-125				
Selenium	39.1	0.625	"	50.0	ND	78.1	75-125				
Silver	1.02	0.125	"	1.25	ND	81.3	75-125				

Post Spike (BC31988-PS1)	*Source sample: 23C1557-06 (Post Spike)						Prepared: 03/29/2023 Analyzed: 03/30/2023				
Arsenic	1.80		ug/mL	2.00	-0.052	90.0	75-125				
Barium	1.85		"	2.00	0.432	70.9	75-125	Low Bias			
Cadmium	0.045		"	0.0500	0.007	75.8	75-125				
Chromium	0.178		"	0.200	-0.003	88.8	75-125				
Lead	0.465		"	0.500	-0.011	93.1	75-125				
Selenium	1.72		"	2.00	0.189	76.3	75-125				
Silver	0.031		"	0.0500	-0.012	62.8	75-125	Low Bias			



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC32012 - EPA SW846-7470A											
Blank (BC32012-BLK1) Prepared & Analyzed: 03/30/2023											
Mercury	ND	0.000200	mg/L								
Blank (BC32012-BLK2) Prepared & Analyzed: 03/30/2023											
Mercury	ND	0.000200	mg/L								
LCS (BC32012-BS1) Prepared & Analyzed: 03/30/2023											
Mercury	0.00209	0.000200	mg/L	0.00200		105	80-120				
LCS (BC32012-BS2) Prepared & Analyzed: 03/30/2023											
Mercury	0.00203	0.000200	mg/L	0.00200		102	80-120				
Batch BC32070 - EPA 7473 soil											
Blank (BC32070-BLK1) Prepared & Analyzed: 03/30/2023											
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BC32070-DUP1) *Source sample: 23C1302-01 (Drum 1) Prepared & Analyzed: 03/30/2023											
Mercury	0.333	0.0308	mg/kg dry		0.441				27.9	35	
Matrix Spike (BC32070-MS1) *Source sample: 23C1302-01 (Drum 1) Prepared & Analyzed: 03/30/2023											
Mercury	0.740		mg/kg	0.500	0.429	62.2	75-125	Low Bias			
Reference (BC32070-SRM1) Prepared & Analyzed: 03/30/2023											
Mercury	31.387		mg/kg	27.2		115	59.9-140.1				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31600 - Analysis Preparation											
Duplicate (BC31600-DUP1)		*Source sample: 23C1224-09 (Duplicate)					Prepared & Analyzed: 03/23/2023				
pH	6.86	0.500	pH units		6.91				0.726	10	
Temperature	22.3	1.00	°C		21.9				1.81	200	
Batch BC31674 - Analysis Preparation											
Blank (BC31674-BLK1)							Prepared & Analyzed: 03/24/2023				
Reactivity - Cyanide	ND	0.250	mg/kg								
Batch BC31675 - Analysis Preparation											
Blank (BC31675-BLK1)							Prepared & Analyzed: 03/24/2023				
Reactivity - Sulfide	ND	15.0	mg/kg								
Duplicate (BC31675-DUP1)		*Source sample: 23C1343-01 (Duplicate)					Prepared & Analyzed: 03/24/2023				
Reactivity - Sulfide	ND	15.0	mg/kg		96.0					50	



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC32005 - % Solids Prep

Duplicate (BC32005-DUP1)	*Source sample: 23C1681-03 (Duplicate)						Prepared & Analyzed: 03/30/2023				
% Solids	88.2	0.100	%		87.6				0.767	20	



Leachate Preparations - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	Limits	Flag	RPD	Limit	Flag
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Batch BC31700 - EPA SW 846-1311 TCLP ext. for metals

Blank (BC31700-BLK1)

Prepared: 03/25/2023 Analyzed: 03/26/2023

TCLP Extraction	Completed	1.00	N/A								
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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23C1302-01	Drum 1	8 oz. WM Clear Glass 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.
- QR-04 The RPD exceeded control limits for the LCS/LCSD QC.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
- 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.
- M-SPKM The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
- IGN-01 Non-Ignit.
- EXT-Temp Extraction temperature slightly exceeded acceptance range.
- EXT-COMP Completed

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.



Field Chain-of-Custody Record

YORK Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. **23C1302**

Page **1** of **1**

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 800-306-YORK 800-306-9675 www.yorklab.com clientservices@yorklab.com

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: PG Environmental	Company:	Company:	Company:	Company:	Company:	CT RCP	Standard Excel EDD	RUSH - Next Day	
Address: 175 Commerce Ave	Address:	Address:	Address:	Address:	Address:	CT RCP DQA/DUE	Standard	RUSH - Two Day	
Phone: Carl's	Phone:	Phone:	Phone:	Phone:	Phone:	NJDEP Reduced	NYSDEC EQUiS	RUSH - Three Day	
Contact: Carl's @ pgenviro.com	Contact:	Contact:	Contact:	Contact:	Contact:	Deliverables	NJDEP SRP HazSite	RUSH - Four Day	
E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	Other:	Other:	Standard (5-7 Day)	<input checked="" type="checkbox"/>

YOUR Project Name
567 Main Street
Westbury, NY

YOUR PO#:

Report / EDD Type (circle selections)	Summary Report	Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
<input checked="" type="checkbox"/> S - soil / solid	Summary Report	GW - groundwater	New York	CT RCP	Compared to the following Regulation(s): (please fill in)
<input type="checkbox"/> DW - drinking water	QA Report	DW - drinking water	New Jersey	CT RCP DQA/DUE	
<input type="checkbox"/> WW - wastewater	NY ASP A Package	WW - wastewater	Connecticut	NJDEP Reduced	
<input type="checkbox"/> O - Oil	NY ASP B Package	O - Oil	Pennsylvania	Deliverables	
	Other:	Other:	Other:	NJDEP SRP HazSite	
				Other:	

Samples Collected by: (print AND sign your name)
Carl's

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Drum 1	S	3/22/2023 1PM	8260, PCB, TELP, PEGGA METALS, R, I, C	8oz jar (2) out jar

Comments:

Samples iced/chilled at time of lab pickup? Yes or No

Preservation: (check all that apply)	Special Instruction
HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/>	Field Filtered
ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/>	Lab to Filter
Date Time: 3/22/23 14:52 Date Time: 3/23/23 1200 Samples Received by / Company: Patry Eld York Samples Received by / Company: Jim Pato York Samples Returned by / Company: KBachyork Samples Returned by / Company: 3/23/23 1200	
Date Time: 3/24/2023 12PM Date Time: 3/23/23 16:30 Samples Received by / Company: KBachyork Samples Received in LAB by: Alpagan	
Date Time: 3/23/23 16:30 Date Time: 3/23/23 16:30 Samples Returned by / Company: KBachyork Temperature: 16:30 4.5	

Appendix E

Imported Material Information



SALES RECEIPT / INVOICE

STATE MATERIAL MASON SUPPLY

245 Grand Blvd.

Westbury NY 11590

PHONE: 516-333-1979

FAX: 516-333-7788

Ticket # 1247731



Customer:

Ship To:

WALK IN

WI

Draw: 1 User: JS Sls: D- P/O: Verbal 03/03/23 12: 5



ITEM	QTY	PRICE
GRAVEL 3/4 COMMERCIAL (TD)	1.50	82.75
		124.12

Cash	0.00	Sub-Total	124.12
CC	134.84	Disc	0.00
Check	0.00	Freight	0.00
Gift Cert/Inst	0.00	Tax (N)	0.00
Store Credit	0.00	TOTAL	134.12
		Change Due	0.00

Ord# *****0248 120
Amount: 134.84
Auth# 08382J

E. WALKIN

ALL SALES FINAL
NO RETURNS
NO EXCHANGES
NO REFUNDS

INSPECT ALL ITEMS BEFORE LEAVING

Terminal ID: XXXXXXXXXXXXXXXXXX

Trans. ID: 005000173854

Order ID: 012477313855

Receipt #: 01247731

Trans. Type: Purchase

Date/Time: 2023 03 03 12: 5

Appendix F
Environmental Easement

**To be attached once
obtained**

