

Mr. Christopher Allan  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
47-40 21st Street  
Long Island City, New York, 11101

4.24.2025

**Re: Quarterly Monitoring Report – 2025 1<sup>st</sup> Quarter  
975 Nostrand Avenue, Brooklyn, NY  
NYSDEC Site No: C224335**

Dear Mr. Allan:

This Quarterly Monitoring Report has been prepared by AKRF, Inc. (AKRF) to summarize routine sampling and monitoring activities performed at the 975 Nostrand Avenue site located in Brooklyn, New York (the "Site"), also identified as Block 1309, Lot 6 on the New York City Tax Map. The Site is situated on an approximately 1.369-acre parcel bounded to the north by a vacant lot (under construction); to the east by Clove Road, followed by multi-family residential buildings; to the south by mixed residential and commercial uses; and to the west by Nostrand Avenue followed by mixed residential and commercial uses and Sullivan Place. A Site location map is provided as Figure 1. A Site plan is provided as Figure 2.

On December 21, 2021, Nostrand Green LLC entered into a Brownfield Cleanup Agreement (BCA) (Index No. C224335-12-21) with NYSDEC as a Volunteer to remediate the Site. The Site was remediated to a Track 2 Restricted Residential Use Cleanup and will be used for residential and commercial uses. A Certificate of Completion (CoC) was issued by NYSDEC in December 2023.

Soil vapor beneath the Site remains contaminated with the chlorinated volatile organic compound (CVOC) tetrachloroethylene (PCE). Remedial activities were completed between July 2022 and September 2023 and included soil removal, underground storage tank (UST) removal, installation of below ground components of an active sub-slab depressurization system (SSDS), and a soil vapor extraction system (SVES). The SVES has operated continuously at the Site since November 2023. The aboveground components of the SSDS are being installed during building construction and the system will be activated upon building completion (expected Q3/Q4 2025).

Site management activities have been ongoing since the issuance of the CoC. This report summarizes the inspection and monitoring activities performed at the Site during the first quarter of 2025 between January 1 and March 31, which include one quarterly inspection of the SVES.

This quarterly monitoring report includes the associated field sampling log and applicable disposal documentation. In accordance with the SMP, further assessment (and recommendations, if necessary) will be provided in the annual Periodic Review Report (PRR).

## **SVES Operation and Maintenance**

### **SVES Monitoring**

Initial startup of the SVES occurred in November 2023. A quarterly inspection was performed in February 2025 to monitor and evaluate the system performance. The quarterly SVES inspection comprised the following activities:



- Confirming that the blower is operating, and air is discharging through the exhaust piping;
- Checking the moisture separator tank;
- Recording SVES blower operation and variable-frequency drive (VFD) readings;
- Recording pre- and post-filter vacuum readings;
- Recording post-blower pressure levels;
- Field-screening for relative concentrations of volatile organic compounds (VOCs) at the granular activated carbon (GAC) vessel influent, intermediate, and effluent ports; and
- Recording vacuum readings at each SVES manifold leg and the monitoring points.

The SVES blower was noted to be operational during the reporting period; however, periodic system shutdowns occurred primarily due to issues with the temporary power in the building as construction activities continue at the Site. Shutdowns also occurred (less frequently) due to condensate trapped within the system piping; the increase in condensate was likely related to the large temperature difference in the winter between the extracted sub-slab soil vapors and the external air (the building envelope has not been completed). Additionally, the system had to be shut down for short periods on multiple occasions to perform regular maintenance, as needed.

The system inspection completed in Q1 2025 did not detect elevated levels of VOCs (max. 0.5 parts per million) at the GAC vessel intermediate or effluent port, and as such, a GAC vessel changeout was not warranted during the reporting period. Previously spent GAC vessels were picked up for off-site disposal in February 2025, as discussed below. No other significant changes were observed. The SVES layout is shown on Figure 3. The inspection log is provided in Attachment A.

#### SVE GAC Vessel Disposal

GAC vessel changeouts were previously conducted on May 10, 2024 and October 11, 2024. Following the change outs, the spent vessels were labeled “USED” and staged on-site near the SVES equipment room for future off-site disposal. Samples were collected from the spent carbon (in the GAC vessels) for waste characterization (for disposal purposes) in August. On February 3, 2025, and following receipt of material disposal approval, the spent GAC vessels were picked up and shipped to the Action Trucking facility of Wantagh, NY for off-site disposal. The disposal profile and manifest are provided as Attachment B.

#### SSDS Operation and Maintenance

In accordance with the SMP, inspections of the SSDS are to be conducted on an annual basis after the first year following issuance of the CoC. The annual SSDS inspection for 2025 will be conducted in Q3 (refer to scheduled activities below).

An active SSDS (total 3 separate systems) will be operated at the Site to mitigate the potential for soil vapor intrusion into the new building. The SSDSs will induce a negative pressure (i.e., vacuum) beneath the newly constructed building slab. The underground elements of the SSDS were installed beneath the building slab following remedial excavation, prior to receipt of the CoC. The SSDS layout is shown on Figure 4. Since the last SSDS inspection in October 2024, the SSDS suction fans were installed on the roof of the building. All installed elements were noted to be in good condition and no issues were noted.

#### Scheduled Activities

AKRF will continue to conduct quarterly SVES inspections; the next inspection is scheduled for May 2025. As stated in the revised NYSDEC-approved January 2024 SMP, SSDS inspection frequency will be reduced to annually after the first year; therefore, the next SSDS inspection will be conducted in Q3 2025, following system startup prior to the building occupancy. The next round of extracted vapor sampling from the SVES is expected in November 2025 (or sooner if required).



If you have any questions regarding the information presented herein, please contact Ashutosh Sharma at (646) 388-9865 or [asharma@akrf.com](mailto:asharma@akrf.com).

Sincerely,  
AKRF, Inc.



Ashutosh Sharma  
Vice President



Axel Schwendt  
Vice President

Attachments:

Figure 1	Site Location
Figure 2	BCP Site Plan and Sample Location Plan
Figure 3	SVES Layout Plan
Figure 4	SSDS Layout Plan

Attachment A	SVES Inspection Logs
Attachment B	GAC Vessel Disposal Documentation

cc (electronic copy only):

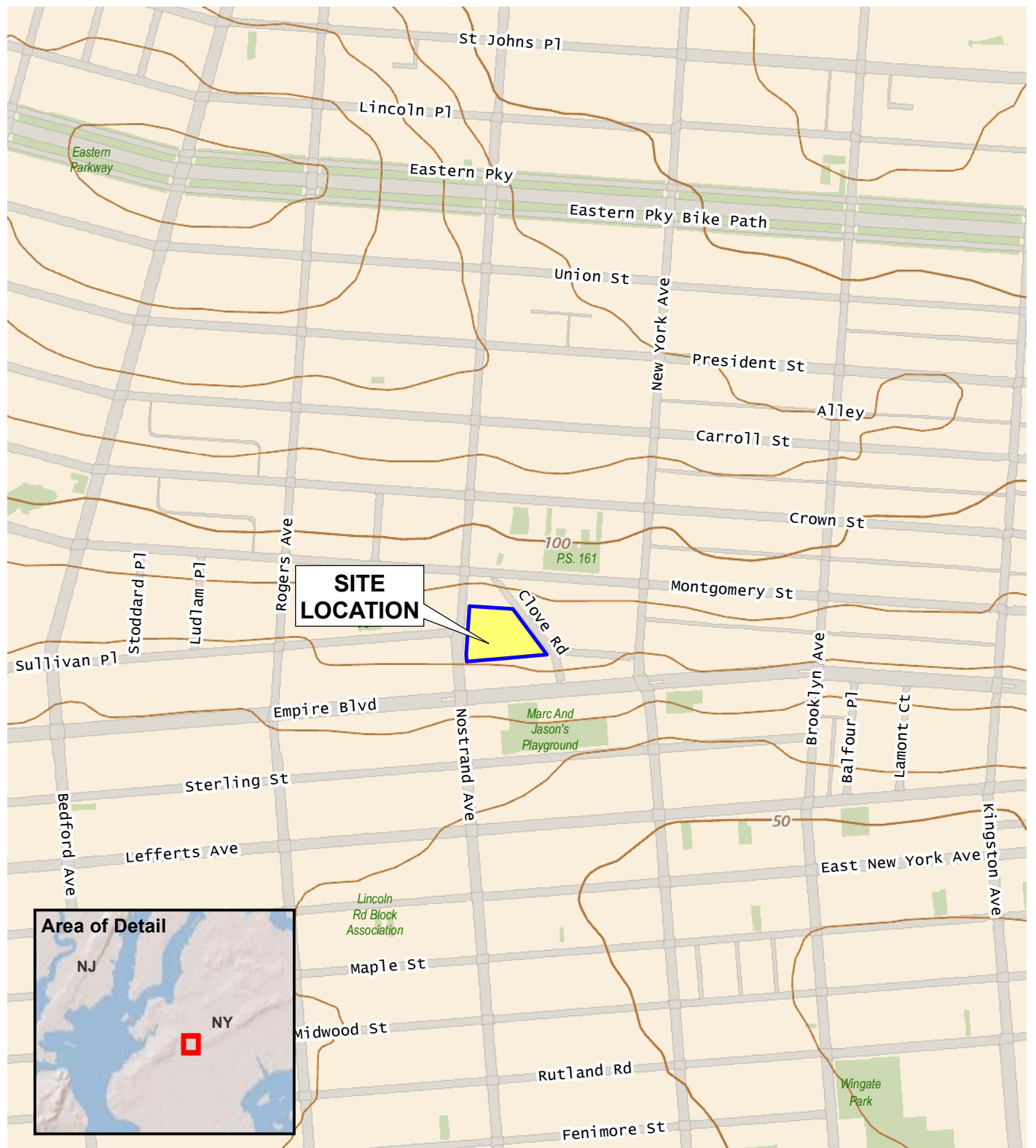
Cris-Sandra Maycock – NYSDEC  
Sally Rushford – NYSDOH  
Marlee Busching-Truscott – Nostrand Green LLC  
Rebecca Kinal – AKRF



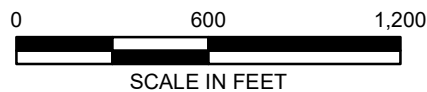
## FIGURES



© 2023 AKRF. W:\Projects\210225 - 975 Nostrand Avenue\Technical\GIS and Graphics\SAR\210225 Figure 1 Site Location map.mxd 11/2/2022 10:32:53 AM iszalus



Service Layer Credits: USGS The National Map: 3d Elevation Program, Data Refreshed July, 2021



440 Park Avenue South, New York, NY 10016

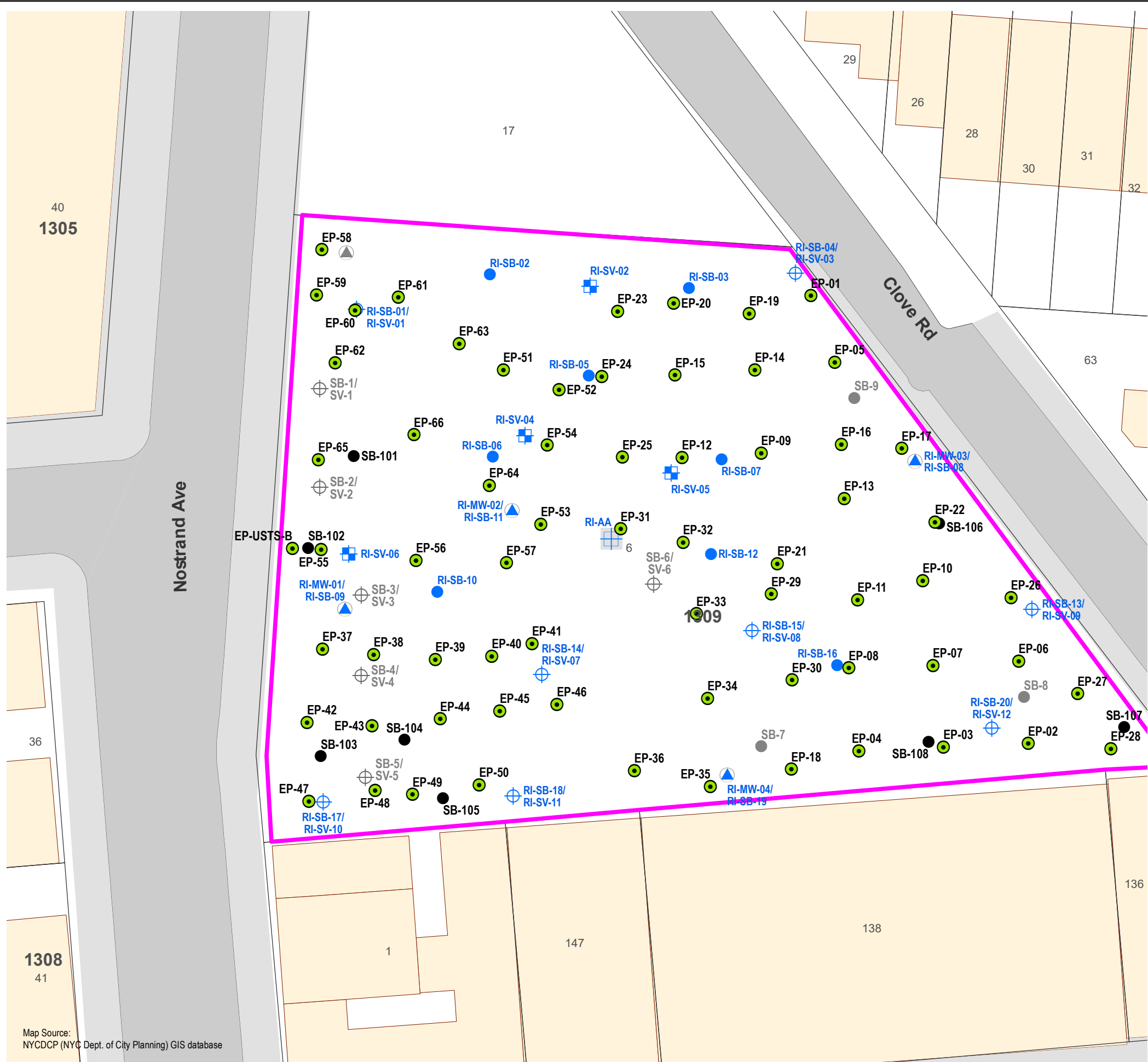
**975 Nostrand Avenue**  
Brooklyn, New York

**SITE LOCATION**

DATE <b>8/23/2023</b>
PROJECT NO. <b>210225</b>
FIGURE <b>1</b>



© 2023 AKRF W:\Projects\190247 - LAMBERT HOUSES PARCEL 5\Technical\GIS and Graphics\Hazmat\MP2\10225 Figure 2 BCP Site Plan and Sample Location Plan.mxd 11/22/2023 5:55:09 PM iszelus



Map Source:  
NYCDP (NYC Dept. of City Planning) GIS database

**LEGEND**

- BCP SITE BOUNDARY
- LOT BOUNDARY
- BLOCK NUMBER
- BUILDING
- EXISTING MONITORING WELL
- PREVIOUS SOIL BORING (EBI CONSULTING, 2020)
- PREVIOUS SOIL BORING/SOIL VAPOR POINT (EBI CONSULTING, 2020)
- SOIL BORING LOCATION (AKRF, 2021)
- RI SOIL BORINGS
- RI SOIL BORING/MONITORING WELL
- RI SOIL BORING/SOIL VAPOR POINT
- RI SOIL VAPOR POINT
- RI AMBIENT AIR SAMPLING LOCATION
- ENDPOINT SAMPLE LOCATION



SCALE IN FEET

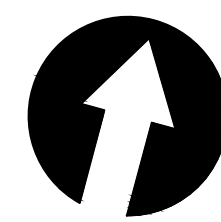


975 Nostrand Avenue  
Brooklyn, New York

**BCP SITE PLAN AND SAMPLE LOCATION PLAN**

DATE
11/22/2023
PROJECT NO.
210225
FIGURE
2





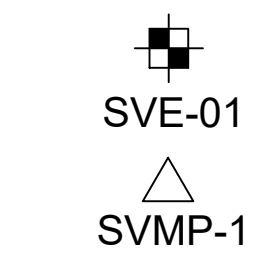
**1**  
FIG-3 SOIL VAPOR EXTRACTION SYSTEM AS-BUILT LAYOUT  
SCALE IN FEET

NOTE: PIPE SPACING NOT TO SCALE

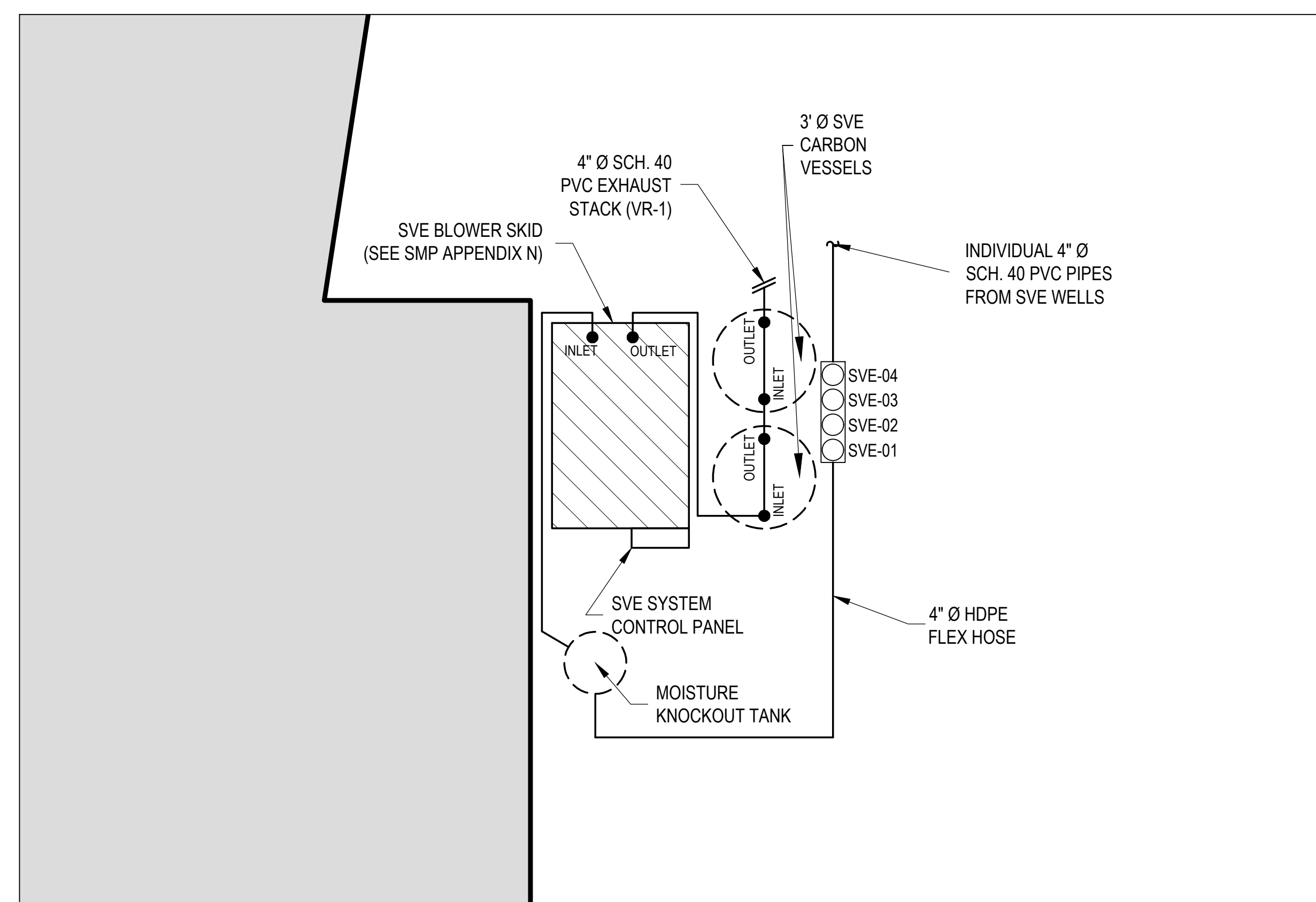
SVE VAPOR MONITORING POINT LOCATIONS		
ID	COLUMN LOCATION	ROOM
SVMP-01	144	GARAGE (SOUTH)
SVMP-02	143	RETAIL STORAGE
SVMP-03	153	GAS ROOM

**LEGEND**

- ABOVEGROUND SOLID 4" Ø SCHEDULE 40 PVC PIPE FROM SVE WELLS
- SOIL VAPOR EXTRACTION (SVE) WELL
- SVE VAPOR MONITORING POINT

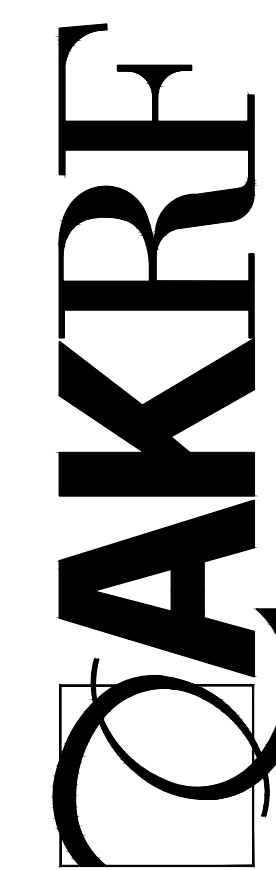


**2**  
FIG-3 SVE EQUIPMENT AREA  
SCALE IN FEET  
NOTE: PIPE SIZE AND SPACING NOT TO SCALE



**975 Nostrand Avenue**  
Brooklyn, NY, Block 1309, Lot 6

**SVES LAYOUT PLAN**



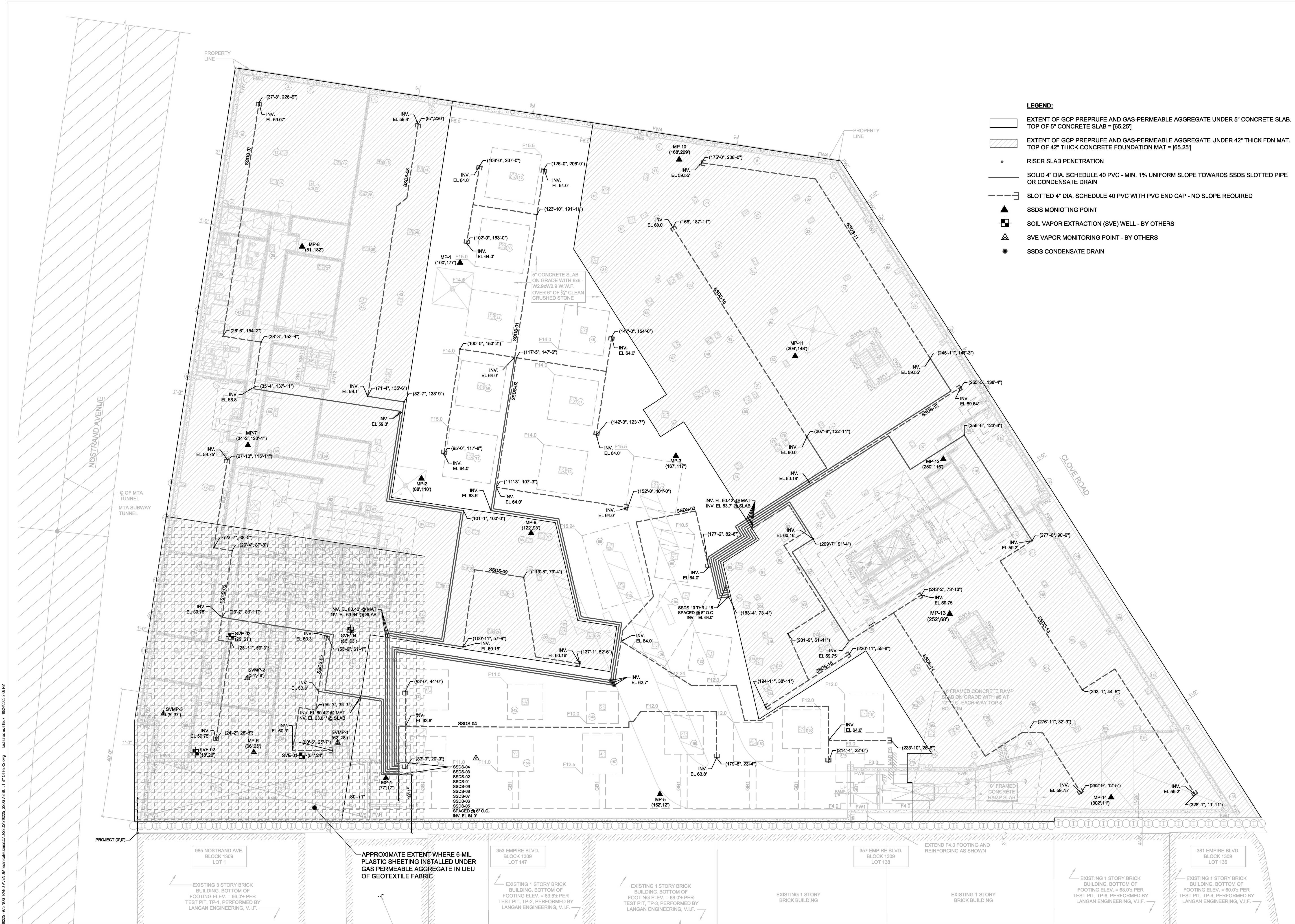
440 Park Avenue South, New York, NY 10016





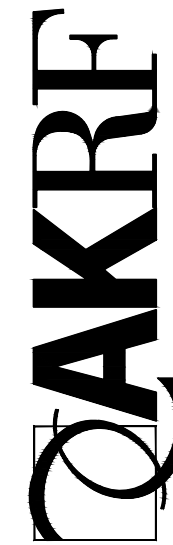
©2023 AKRF, Inc. 0:\proj\210225 - 975 NOSTRAND AVENUE\ET\external\SSDS\SSDS-VE-01.dwg 10/24/2023 2:06 PM last save: mfe@akrf.com 10/24/2023 2:06 PM

SOURCE: Oliviero Construction Corp., "SSDS & SVE AS-BUILT",  
Drawing No. VE-01, Dated September 06, 2023.



975 Nostrand Avenue  
Brooklyn, NY. Block 1309, Lot 6

SSDS LAYOUT PLAN



440 Park Avenue South, New York, NY 10016

DATE  
4/24/2024  
PROJECT NO.  
210225  
FIGURE  
4



**ATTACHMENT A**  
**SVES INSPECTION LOGS**



<b>SVE INSPECTION LOG</b> <b>MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION</b> 975 Nostrand Avenue, Brooklyn, NY			
<b>Inspector Name:</b> M. Bates		<b>Date:</b> 2/27/2025	
<b>Time IN:</b> 10:00		<b>Time OUT:</b> 13:00	
<b>GENERAL</b>			
Weather: Clear	Temperature: 47 F	Barometric Pressure: 29.76	Equipment Room Temperature: 55 F
When was the last rain event? 2/26/2025			
Is the SVE blower currently operating? <b>Yes</b> / No (circle one) If no, ALERT PROJECT MANAGER and please list reason/alarm condition: The system was shut off upon arrival to the Site. M. Bates notified project manager and conducted a system restart. Upon restart, the blower was operating normally. High Vacuum was the alarm notification listed.			
What is the VFD setting? 50 Hz If under 30 Hz, ALERT PROJECT MANAGER:			
Is condensate in the knockout tank gauge below the low-high float sensor? <b>Yes</b> / No (circle one) If no, ALERT PROJECT MANAGER and manually drain knockout tank			
Is transfer pump working? <b>Yes</b> / No (circle one) If no, ALERT PROJECT MANAGER.			
Is 50-gallon drum full? Yes / <b>No</b> (circle one) If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.			
Any evidence of system tampering, vandalism or damage? Yes / <b>No</b> (circle one) If yes, ALERT PROJECT MANAGER and please note findings:			
Any evidence of system tampering, vandalism or damage to the exhaust stack? Yes / <b>No</b> (circle one) If yes, ALERT PROJECT MANAGER and please note findings:			
<b>Notes:</b> This SVE Inspection Log should be completed along with the sampling log for each sampling event. PID - Photoionization Detector; ppm - parts per million; NA - Not applicable; GAC - Granular Activated Carbon			
<b>Comments:</b> System restarted upon arrival. Construction team noted that system shut off yesterday as well due to temporary power issues.			
<b>Emergency Contact Information</b>			
	<b>Name</b>	<b>Title</b>	<b>Contact Number</b>
	Ashutosh Sharma	AKRF Project Manager	646-388-9865 (office)
	Joseph Kohl Riggs	Owner's Representative	718-473-9663 (office)



<b>SVE INSPECTION LOG</b> <b>MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION</b> 975 Nostrand Avenue, Brooklyn, NY				
<b>SVE Operation</b> <b>CALL PROJECT MANAGER IF READING OUTSIDE ACCEPTABLE/TYPICAL RANGE (IN GRAY)</b>				
Pre-Blower Inlet Temperature (°F): 40-80°F		Post-Blower Outlet Temperature (°F): 70-110°F		Knockout Tank Vacuum (Inches of water column): 0-90 inH2O
50		100		0
Pre-filter Vacuum (Inches of water column): 0-90 inH2O		Post-filter Vacuum (Inches of water column): 0-90 inH2O		Post-Blower Pressure (Inches of water column): 0-90 inH2O
26		27		34
GAC Influent PID (ppm):		GAC Intermediate PID (ppm): Less than GAC Influent PID		GAC Effluent PID (ppm): 0 ppm
0.5		0.2		0
Monitoring Location	Vacuum Reading "H2O <small>Between 0 and 90 "H2O</small>	Air Flow Reading "H2O <small>Between 0.000 and 0.050 "H2O</small>	Air Flow Reading CFM	Notes
SVE-01	20	0.07		readings based on velocalc probe
SVE-02	20	0.16		readings based on velocalc probe
SVE-03	19	0.2		readings based on velocalc probe
SVE-04	20	0.13		readings based on velocalc probe
SVMP-01	0.136			
SVMP-02	0.216			
SVMP-03	0.18			



**ATTACHMENT B**  
**GAC VESSEL DISPOSAL DOCUMENTATION**



<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CESQG</b>		2. Page 1 of <b>1</b>		3. Emergency Response Phone <b>516-781-3000</b>		4. Waste Tracking Number <b>2025-0065-REM</b>		
5. Generator's Name and Mailing Address <b>NOSTRAND GREEN LLC 826 BROADWAY, 11TH FLOOR NEW YORK, NY 10003</b> Generator's Phone: <b>732-613-1660</b>					Generator's Site Address (if different than mailing address) <b>975 NOSTRAND AVE BROOKLYN, NY 11225</b>					
6. Transporter 1 Company Name <b>Action Trucking Co., Inc.</b>					Ph#: <b>516-781-3000</b> State ID#: <b>-</b>		U.S. EPA ID Number <b>NYD064749304</b>			
7. Transporter 2 Company Name							U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>Action Trucking. 3010 Burns Ave Wantagh, NY 11793</b> Facility's Phone: <b>516-781-3000</b>					State ID#: <b>NY-</b>		U.S. EPA ID Number <b>NYD064748304</b>			
9. Waste Shipping Name and Description					10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
					No.	Type				
1.										
2. <b>NONRCRA / NONDOT REGULATED MATERIAL (SPENT VGAC)</b>					<b>06</b>	<b>DM</b>	<b>2400</b>	<b>P</b>		
3.										
4.										
13. Special Handling Instructions and Additional Information  <b>02: () SPENT VGAC</b>  <b>(AWT)</b>										
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.										
Generator's/Officer's Printed/Typed Name <b>[Signature]</b>					Signature <b>[Signature]</b>		Month Day Year <b>2 3 25</b>			
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 <b>[Signature]</b>					Signature <b>[Signature]</b>		Month Day Year <b>2 3 25</b>			
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 <b>[Signature]</b>					Signature <b>[Signature]</b>		Month Day Year <b>2 3 25</b>			



# Action Trucking Co., Inc.

3010 Burns Avenue, Wantagh, NY 11793 • Phone (516) 781-3000 • Fax (516) 781-3085

## GENERATOR WASTE PROFILE SHEET

Profile #:

Work Order #:

Approval Code:

### GENERATOR INFORMATION

Generator Name:	NOSTRAND GREEN LLC	Generator USEPA ID#	N/A
Facility Address:	826 Broadway, 11th Floor NY, NY 10003	Name:	AWT Environmental Services, Inc.
Site Address:	975 Nostrand Avenue Brooklyn NY 11225	Contact/Title:	Theresa Matthaey
Tech. Contact/Title:	S. Tomicki	Address:	32 Birch Street Old Bridge NJ 08857
Phone: 732-613-1660	Fax:	Phone: 732-613-1660	Fax:

### WASTE INFORMATION

Name of Waste:	Spent VGAC
Detailed Process Generating Waste:	Carbon change out.

### PHYSICAL CHARACTERISTICS

Color	Black	Physical State @ 70F	Layers	Corrosivity	Attachments
Odor	None	<input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid	<input checked="" type="checkbox"/> Single Phased <input type="checkbox"/> Multilayered	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> 9-12.5 <input type="checkbox"/> 2-5 <input type="checkbox"/> ≤ 12.5	<input type="checkbox"/> MSDS Attached <input checked="" type="checkbox"/> Supplemental Analysis
Free Liquids	0 %	<input type="checkbox"/> Powder <input type="checkbox"/> Sludge	<input type="checkbox"/> Bilayered Flash Point: <input type="checkbox"/> 100-139F <input checked="" type="checkbox"/> ≥ 140 F	<input checked="" type="checkbox"/> 5-9 Actual _____ Sulfur _____ %	<input type="checkbox"/> Additional Information <input type="checkbox"/> LDR Attached
Water	%	Solids 100%	Did a portion of load originate at a utility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Chemical Composition	Percent	Minimum	Maximum	Does this waste contain greater than 2 ppm PCBs or PCBs derived from a source greater than 2 PPM? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Spent Carbon (VGAC)	100%			Does this waste contain greater than 1,000 ppm total HOC (Halogenated Organic Compounds)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				Is it State Waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				State Haz Codes: None	
				DOT Hazardous Material? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

### SHIPPING INFORMATION

Proper Shipping Name:	Non-RCRA, Non-DOT Regulated Solid, NOS	<input type="checkbox"/> Bulk Liquids <input type="checkbox"/> Bulk Solids-Dump <input type="checkbox"/> Bulk Solid – Roll Off <input type="checkbox"/> Dump Trailer <input type="checkbox"/> Pallett(s) <input type="checkbox"/> Cubic Yard Box(s)	<input checked="" type="checkbox"/> Drum: <input type="checkbox"/> 55 gal <input type="checkbox"/> 30 gal <input type="checkbox"/> _____ <input type="checkbox"/> Other: <input type="checkbox"/> No Land Filling <input type="checkbox"/> Incinerate Only Anticipated Volume: Per: Quantity: 2 Price: /Unit:
Hazard Class:	UN/NA#:		<input type="checkbox"/> Recycle Only
P.G.:	ERG#:		
RQ:			
Comments:			

GENERATOR CERTIFICATION: I hereby certify that all information submitted in this and all other attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. If Action discovers, after having taken the delivery of the waste, that any waste does not conform to the identification or descriptions contained in this Generator Waste Profile Sheet, then Action shall provide notice to Generator and coordinate the return, if applicable, of the non-conforming waste to the point of origin as set forth in the manifest or to such other locations designated in writing by the Generator. Generator agrees to reimburse Action for all handling, packaging, cleanup and transportation costs or charges, damage to equipment and costs associated with lost time incurred by Action during the receipt, handling, temporary storage and return of such non-conforming waste to its point of origin or to such other location designated by the Generator. I hereby authorize Action to amend and/or correct any information on the Generator Waste Profile Sheet with the full understanding that if any amendment or correction is performed, I will be contacted as such to issue any approval.

Authorized Signature: Suh. Qian Title: Member Date: 1-2-24

Action Approval		Tech Initials	Date	MGMT Initials	Date
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# DESOTEC

October 20, 2024

**Customer Mailing Address:**

Joseph Kohl Riggs  
Nostrand Green LLC  
826 Broadway  
11th Floor  
New York, NY. 10003  
Phone: (212) 777-9500

**Site Address:**

Broadway  
975 Nostrand Avenue  
Brooklyn, NY 11225

**Generator Mailing Address:**

Nostrand Green LLC  
826 Broadway  
11th Floor  
New York, NY 10003  
212-777-9500

**RE Non-Hazardous Approval Notification**  
**SCID/PROFILE: DUS-NGNYNY-AF**

*Desotec US LLC hereby gives notice that the above mentioned SCID/PROFILE has been approved for acceptance and has all the necessary permits and licenses for the waste that has been characterized and identified by the profile:*

**PAD987270725 (Darlington) RCRA Hazardous Waste Storage and Thermal Treatment Permit**

**Waste Codes:** NONE

**Effective Dates of Approval:** 10/31/2024 - 10/31/2025

**Approved for Plant:** DARLINGTON

**May Be Received/Shipped:** 10/31/2024

**Carbon Type:** Granular

**Carbon Mesh Size:** 4X10

**Approved Handling Methods:** Drums -

**BP11:** OK

**Approval No: (SCID/PROFILE)** DUS-NGNYNY-AF

We request that this number is used in all future correspondence pertaining to this spent carbon.

**Documents required for each shipment:**

Non-Hazardous Shipping Documents and Labels

**Please contact your local or inside sales representative to schedule shipment. At least 48 hours is required before shipment to secure a dock time.**

Please call the Environmental Health & Safety Department (724-827-8181 x570) if you have any questions.

Thank you,

Timothy McGeehan  
Department of Environmental Affairs

118 Park Road  
Darlington, PA 16115

Tel: (724) 827-8181  
Fax: (724) 827-2257

[www.desotec.com](http://www.desotec.com)





Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

August 21, 2024

Linda Willard  
Desotec US, LLC  
118 Park Rd.  
Darlington, PA 16115  
TEL: (724) 827-8181  
FAX:

RE: CUS-NORSTRAND GREEN

Dear Linda Willard:

Order No.: 24081031

Summit Environmental Technologies, Inc. received 1 sample(s) on 8/14/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.  
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C





Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4486  
Website: <http://www.settek.com>

## Case Narrative

WO#: 24081031  
Date: 8/21/2024

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**CLIENT:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

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### WorkOrder Narrative:

24081031: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Original





Summit Environmental Technologies, Inc.  
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Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

## Workorder Sample Summary

WO#: 24081031

21-Aug-24

---

**CLIENT:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

---

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24081031-001	40020240813002		8/13/2024 6:00:00 AM	8/14/2024 4:00:00 PM	Solid





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## Analytical Report

(consolidated)

WO#: 24081031

Date Reported: 8/21/2024

**CLIENT:** Desotec US, LLC **Collection Date:** 8/13/2024 6:00:00 AM  
**Project:** CUS-NORSTRAND GREEN  
**Lab ID:** 24081031-001 **Matrix:** SOLID  
**Client Sample ID:** 40020240813002

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCLP VOLATILES</b>					<b>SW8260</b>	<b>SW1311M</b> Analyst: RD
<b>TCLP VOLATILES</b>						
1,1-Dichloroethene	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
1,2-Dichloroethane	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
MEK	ND	10.0		mg/L	100	8/20/2024 3:18:00 PM
Benzene	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
Carbon tetrachloride	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
Chlorobenzene	ND	5.00		mg/L	100	8/20/2024 3:18:00 PM
Chloroform	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
Tetrachloroethene	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
Trichloroethene	ND	0.500		mg/L	100	8/20/2024 3:18:00 PM
Vinyl chloride	ND	0.200		mg/L	100	8/20/2024 3:18:00 PM
Surr: 4-Bromofluorobenzene	96.4	70 - 130		%Rec	100	8/20/2024 3:18:00 PM
Surr: Dibromofluoromethane	96.0	70 - 130		%Rec	100	8/20/2024 3:18:00 PM
Surr: Toluene-d8	97.7	70 - 130		%Rec	100	8/20/2024 3:18:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode





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## QC SUMMARY REPORT

WO#: 24081031

21-Aug-24

**Client:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

**BatchID:** 77879

Sample ID: <b>24081261-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>TCLP-VOC-M</b>		Units: <b>mg/L</b>	Prep Date:			RunNo: <b>191708</b>			
Client ID: <b>BatchQC</b>	Batch ID: <b>77879</b>	TestNo: <b>SW8260</b>		<b>SW1311M</b>	Analysis Date: <b>8/20/2024</b>			SeqNo: <b>5193349</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2.19	0.500	2.00	0	109	13.6	202				
1,2-Dichloroethane	2.03	0.500	2.00	0	102	55.7	138				
MEK	9.60	2.50	10.0	0	96.0	65.3	130				
Benzene	2.36	0.500	2.00	0	118	49.2	145				
Carbon tetrachloride	2.11	0.500	2.00	0	106	26.7	156				
Chlorobenzene	2.21	0.500	2.00	0	110	33.7	159				
Chloroform	2.16	0.500	2.00	0	108	48.5	145				
Tetrachloroethene	2.34	0.500	2.00	0	117	19.2	191				
Trichloroethene	2.28	0.500	2.00	0	114	38.4	167				
Vinyl chloride	1.37	0.200	2.00	0	68.4	27.3	161				
Surr: 4-Bromofluorobenzene	4890		5000		97.8	70	130				
Surr: Dibromofluoromethane	4840		5000		96.8	70	130				
Surr: Toluene-d8	4960		5000		99.2	70	130				

Sample ID: 24081261-001AMSD	SampType: MSD	TestCode: TCLP-VOC-M	Units: mg/L	Prep Date:	RunNo: 191708						
Client ID: BatchQC	Batch ID: 77879	TestNo: SW8260	SW1311M	Analysis Date: 8/20/2024	SeqNo: 5193350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2.09	0.500	2.00	0	104	13.6	202	2.19	4.60	25	
1,2-Dichloroethane	1.95	0.500	2.00	0	97.7	55.7	138	2.03	3.81	25	
MEK	9.92	2.50	10.0	0	99.2	65.3	130	9.60	3.28	25	

**Qualifiers:** H Holding times for preparation or analysis exceeded  
PL Permit Limit  
W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response  
RL Reporting Detection Limit

ND Not Detected  
S Spike Recovery outside accepted recovery limits





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## QC SUMMARY REPORT

WO#: 24081031

21-Aug-24

Client: Desotec US, LLC  
Project: CUS-NORSTRAND GREEN

BatchID: 77879

Sample ID: 24081261-001AMSD	SampType: MSD	TestCode: TCLP-VOC-M	Units: mg/L	Prep Date:				RunNo: 191708			
Client ID: BatchQC	Batch ID: 77879	TestNo: SW8260	SW1311M	Analysis Date: 8/20/2024				SeqNo: 5193350			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.28	0.500	2.00	0	114	49.2	145	2.36	3.32	25	
Carbon tetrachloride	2.13	0.500	2.00	0	106	26.7	156	2.11	0.702	25	
Chlorobenzene	2.12	0.500	2.00	0	106	33.7	159	2.21	3.95	25	
Chloroform	2.04	0.500	2.00	0	102	48.5	145	2.16	5.76	25	
Tetrachloroethene	2.24	0.500	2.00	0	112	19.2	191	2.34	4.27	25	
Trichloroethene	2.24	0.500	2.00	0	112	38.4	167	2.28	1.80	25	
Vinyl chloride	1.24	0.200	2.00	0	62.0	27.3	161	1.37	9.84	25	
Surr: 4-Bromofluorobenzene	4840		5000		96.9	70	130		0	25	
Surr: Dibromofluoromethane	4800		5000		96.1	70	130		0	25	
Surr: Toluene-d8	4900		5000		98.0	70	130		0	25	

Qualifiers: H Holding times for preparation or analysis exceeded  
PL Permit Limit  
W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response  
RL Reporting Detection Limit

ND Not Detected  
S Spike Recovery outside accepted recovery limits





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## QC SUMMARY REPORT

WO#: 24081031

21-Aug-24

**Client:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

**BatchID:** 77879

Sample ID: <b>LCS-77879</b>	SampType: <b>LCS</b>	TestCode: <b>TCLP-VOC-M</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>191708</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>77879</b>	TestNo: <b>SW8260</b>	<b>SW1311M</b>	Analysis Date: <b>8/20/2024</b>	SeqNo: <b>5193344</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0209	0.00500	0.0200	0	104	64.7	136				
1,2-Dichloroethane	0.0205	0.00500	0.0200	0	103	70	130				
MEK	0.0908	0.0250	0.100	0	90.8	55.1	149				
Benzene	0.0226	0.00500	0.0200	0	113	70	130				
Carbon tetrachloride	0.0205	0.00500	0.0200	0	103	70	130				
Chlorobenzene	0.0218	0.00500	0.0200	0	109	70	130				
Chloroform	0.0211	0.00500	0.0200	0	105	70	130				
Tetrachloroethene	0.0215	0.00500	0.0200	0	108	70	134				
Trichloroethene	0.0218	0.00500	0.0200	0	109	62.8	160				
Vinyl chloride	0.0143	0.00200	0.0200	0	71.3	67.1	130				
Surr: 4-Bromofluorobenzene	48.9		50.00		97.8	70	130				
Surr: Dibromofluoromethane	48.9		50.00		97.8	70	130				
Surr: Toluene-d8	49.4		50.00		98.8	70	130				

Sample ID: <b>EXBLK1-77879</b>	SampType: <b>MBLK</b>	TestCode: <b>TCLP-VOC-M</b>	Units: <b>mg/L</b>	Prep Date: <b>8/19/2024</b>	RunNo: <b>191708</b>						
Client ID: <b>PBS</b>	Batch ID: <b>77879</b>	TestNo: <b>SW8260</b>	<b>SW1311M</b>	Analysis Date: <b>8/20/2024</b>	SeqNo: <b>5193347</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.100									
1,2-Dichloroethane	ND	0.100									
MEK	ND	0.500									

**Qualifiers:** H Holding times for preparation or analysis exceeded  
PL Permit Limit  
W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response  
RL Reporting Detection Limit

ND Not Detected  
S Spike Recovery outside accepted recovery limits





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Website: <http://www.settek.com>

## QC SUMMARY REPORT

WO#: 24081031

21-Aug-24

**Client:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

**BatchID:** 77879

Sample ID: <b>EXBLK1-77879</b>	SampType: <b>MBLK</b>	TestCode: <b>TCLP-VOC-M</b>		Units: <b>mg/L</b>	Prep Date: <b>8/19/2024</b>				RunNo: <b>191708</b>		
Client ID: <b>PBS</b>	Batch ID: <b>77879</b>	TestNo: <b>SW8260</b>		<b>SW1311M</b>	Analysis Date: <b>8/20/2024</b>				SeqNo: <b>5193347</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.100									
Carbon tetrachloride	ND	0.100									
Chlorobenzene	ND	0.100									
Chloroform	ND	0.100									
Tetrachloroethene	ND	0.100									
Trichloroethene	ND	0.100									
Vinyl chloride	ND	0.0400									
Surr: 4-Bromofluorobenzene	952		1000		95.2	70	130				
Surr: Dibromofluoromethane	1010		1000		101	70	130				
Surr: Toluene-d8	1000		1000		100	70	130				

**Qualifiers:**  
H Holding times for preparation or analysis exceeded  
PL Permit Limit  
W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response  
RL Reporting Detection Limit

ND Not Detected  
S Spike Recovery outside accepted recovery limits



These commonly used Qualifiers and Acronyms may or may not be present in this report.

### Qualifiers

<b>U</b>	The compound was analyzed for but was not detected above the MDL.
<b>J</b>	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
<b>H</b>	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
<b>D</b>	The result is reported from a dilution.
<b>E</b>	The result exceeded the linear range of the calibration or is estimated due to interference.
<b>MC</b>	The result is below the Minimum Compound Limit.
<b>*</b>	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
<b>m</b>	Manual integration was used to determine the area response.
<b>d</b>	Manual integration in which peak was deleted
<b>N</b>	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
<b>P</b>	The second column confirmation exceeded 25% difference.
<b>C</b>	The result has been confirmed by GC/MS.
<b>X</b>	The result was not confirmed when GC/MS Analysis was performed.
<b>B</b>	The analyte was detected in the Method Blank at a concentration greater than the RL.
<b>MB+</b>	The analyte was detected in the Method Blank at a concentration greater than the MDL.
<b>G</b>	The ICB or CCB contained reportable amounts of analyte.
<b>QC-/+</b>	The CCV recovery failed low (-) or high (+).
<b>R/QDR</b>	The RPD was outside of accepted recovery limits.
<b>QL-/+</b>	The LCS or LCSD recovery failed low (-) or high (+).
<b>QLR</b>	The LCS/LCSD RPD was outside of accepted recovery limits.
<b>QM-/+</b>	The MS or MSD recovery failed low (-) or high (+).
<b>QMR</b>	The MS/MSD RPD was outside of accepted recovery limits.
<b>QV-/+</b>	The ICV recovery failed low (-) or high (+).
<b>S</b>	The spike result was outside of accepted recovery limits.
<b>W</b>	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
<b>Z</b>	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

### Acronyms

<b>ND</b>	Not Detected	<b>RL</b>	Reporting Limit
<b>QC</b>	Quality Control	<b>MDL</b>	Method Detection Limit
<b>MB</b>	Method Blank	<b>LOD</b>	Level of Detection
<b>LCS</b>	Laboratory Control Sample	<b>LOQ</b>	Level of Quantitation
<b>LCSD</b>	Laboratory Control Sample Duplicate	<b>PQL</b>	Practical Quantitation Limit
<b>QCS</b>	Quality Control Sample	<b>CRQL</b>	Contract Required Quantitation Limit
<b>DUP</b>	Duplicate	<b>PL</b>	Permit Limit
<b>MS</b>	Matrix Spike	<b>RegLvl</b>	Regulatory Limit
<b>MSD</b>	Matrix Spike Duplicate	<b>MCL</b>	Maximum Contamination Limit
<b>RPD</b>	Relative Percent Different	<b>MinCL</b>	Minimum Compound Limit
<b>ICV</b>	Initial Calibration Verification	<b>RA</b>	Reanalysis
<b>ICB</b>	Initial Calibration Blank	<b>RE</b>	Reextraction
<b>CCV</b>	Continuing Calibration Verification	<b>TIC</b>	Tentatively Identified Compound
<b>CCB</b>	Continuing Calibration Blank	<b>RT</b>	Retention Time
<b>RLC</b>	Reporting Limit Check	<b>CF</b>	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.





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*Analytical Laboratories*

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## DATES REPORT

WO#: 24081031

21-Aug-24

**Client:** Desotec US, LLC  
**Project:** CUS-NORSTRAND GREEN

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081031-001A	40020240813002	8/13/2024 6:00:00 AM	Solid	TCLP Volatiles		8/19/2024 2:51:00 PM	8/20/2024 3:18:00 PM

Original





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## Accreditation Program Analytes Report

WO#: 24081031  
21-Aug-24

**Client:** Desotec US, LLC

**State:** PA

**Project:** CUS-NORSTRAND GREEN

**Program Name:** Pennsylvanis DEP

Test Name	Matrix	Analyte	Status
TCLP Volatiles	Solid	1,1-Dichloroethene	A
TCLP Volatiles	Solid	1,2-Dichloroethane	A
TCLP Volatiles	Solid	2-Butanone	A
TCLP Volatiles	Solid	Benzene	A
TCLP Volatiles	Solid	Carbon tetrachloride	A
TCLP Volatiles	Solid	Chlorobenzene	A
TCLP Volatiles	Solid	Chloroform	A
TCLP Volatiles	Solid	Tetrachloroethene	A
TCLP Volatiles	Solid	Trichloroethene	A
TCLP Volatiles	Solid	Vinyl chloride	A

AL	U	Unavailable	AR	A	Accredited	A-NELA	N	Not Accredited
CO	U	Unavailable	L-NELA	A	Accredited	HI-DW	U	Unavailable
L-NELA	N	Not Accredited	IN_DW	U	Unavailable	S - NELA	A	Accredited
S - NELA	N	Not Accredited	KY_UST	A	Accredited	W(RADS)	N	Not Accredited





**SUMMIT**  
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**For Summit Environmental Technologies, Inc. use only**

**Find us at: [www.settek.com](http://www.settek.com)**

**SET VO**

SET VON: 2408103

### Analytical Parameters and Methods

Client Name DESOTEC US LLC			Project Identification			Grab	Composite	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water	Preservative - See Legend Below	Number of Containers	Analytical Parameters and Methods							
Client Address 118 Park Rd. Darlington, PA			Project Address								TCLP VOC							
Client Phone 724-827-8181			Report To															
Contact Person Linda Willard			PO # IO/24/17142		Quote Number													
Client Email Address linda.willard@desotec.com			PWS ID		Facility ID													
Sampled By (Print Name and Provide Signature) <b>Shaun Poole</b>			Reporting/Accreditation Requirements <input type="checkbox"/> Ohio VAP <input type="checkbox"/> OEPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input checked="" type="checkbox"/> Other Compliance (List State/ Program): <b>PA Certification</b>															
For DW only, do results have to be reported to state by the lab? If yes, lab fee may apply <input type="checkbox"/> Y <input checked="" type="checkbox"/> N																		
#	Sample Point ID	Sample Identification		Date Collected	Time Collected											Special Compliance or Routine - DW Only (S/R)		
1		40020240813002		08/13/2024	6:00AM		✓	S		1	X							
		CUS-NOSTRAND GREEN																
		*** BROOKLYN, NJ ***																
		*For DESOTEC US LLC reference only*																
Relinquished by:						Date		Time		Received by:		Date		Time		Notes / Comments:  BILL TO DESOTEC  Was sufficient volume provided to run QC: YES / NO Cooler: YES / NO Other:  3.9+0.0= Rec. Temp: 3.9 Ice: YES NO / melted		
						08/14/2024		10:00AM				8/14		12:25				
						8/14		9:00										
Received in Lab by:						Date		Time		Carrier		Rush Requested: _____ Day(s) Must be approved by Lab Manager						
						8/14/24		1000		Summit								



## Sample Log-In Check List

Client Name: DES-PA-16115

Work Order Number: 24081031

RcptNo: 1

Logged by: Christina N. Gemma 8/14/2024 4:00:00 PM

Completed By: Tegan A. Richards 8/14/2024 6:11:34 PM

Reviewed By: Jennifer Woolf 8/15/2024 5:02:34 PM

*C. Gemma*  
*Tegan Richards*  
*Jennifer Woolf*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Summit

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Not Present			