

# QUARTERLY OPERATION AND MAINTENANCE REPORT – SECOND QUARTER 2020

### **Stanton Cleaners Area Superfund Site**

110 Cutter Mill Road Great Neck, New York 110211

NYDEC Site No. 130072

### **Prepared For:**

New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233 Contract #D009808

### Prepared By:

HRP Associates, Inc. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065

HRP #: DEC1003.OM

Issued On: October 15, 2020



### **TABLE OF CONTENTS**

1.0	INITE	RODUCTION	1
1.0	IIVII	*ODGC11ON	'
2.0	SITE	BACKGROUND	2
	2.1	Site Location and Current Use	.2
	2.2	Remedial History	
	2.3	Site Cleanup Objectives	.3
3.0	OPE	RATIONS AND MAINTENANCE PROGRAM	4
	3.1	Groundwater Extraction and Treatment System Operations and Maintenance	4
	3.2	Soil Vapor Extraction System Operations and Maintenance	
4.0	MON	IITORING PROGRAM	7
	4.1	Plume Perimeter Monitoring	.7
	4.2	Groundwater Sampling	
	4.3	Indoor Air Quality Sampling	
	4.4	Water Authority of Great Neck North Public Supply Well Monitoring	.7
5.0	MAI	NTENANCE ISSUES AND RECOMMENDED SOLUTIONS	8
6.0	FUT	JRE ACTIVITIES	9
7.0	PRO	GRESS TOWARD CLEANUP OBJECTIVES 1	n



### **Figures**

Figure 1 Site Location Map Figure 2 Site Layout Figure 3 Monitoring Well Network

### **Tables**

Groundwater Extraction and Treatment System - Summary of VOC Mass Removal
Groundwater Extraction and Treatment System – Influent and Effluent Analytical
Results
Soil Vapor Extraction System – Influent and Effluent Analytical Results
SVE System – Summary of VOC Mass Removal
Well Monitoring Schedule

### **Appendices**

Appendix A	Daily Operation and Maintenance Reports
Appendix B	Groundwater Extraction and Treatment System Operation and Maintenance Reports
Appendix C	Soil Vapor Extraction System Operation and Maintenance Reports
Appendix D	Monthly Groundwater Level Measurements



### **General Information**

### **Project/Site Information:**

Stanton Cleaners Area Superfund Site 110 Cutter Mill Road Great Neck, NY 11021

### **Consultant Information:**

HRP Associates, Inc. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 Phone: 518-877-7101

Fax: 518-877-8561

E-mail: david.feinson@hrpassociates.com

Project Number: DEC1003.OM

### **Client Information:**

New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233

**Report Date:** 10/15/2020

**Report Author:** 

Ali LeMay Project Scientist

ali lettry

**Project Manager:** 

David Feinson Project Manager



### 1.0 <u>INTRODUCTION</u>

HRP Associates, Inc. (HRP) has been contracted by the New York State Department of Environmental Conservation (NYSDEC) for site management tasks under Standby Engineering Contract D009808. Under this contract, on-going site management was assigned to HRP for the former Stanton Cleaners Site, NYSDEC Site No. 130072, located at 110 Cutter Mill Road in Great Neck, New York (herein referred to as the "Site"). The Site location is depicted on **Figure 1**. The Site is currently listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 4 site. This designation is for properly closed sites but requires continued management until remedial objectives are achieved. The United States Environmental Protection Agency (USEPA) oversaw the operations and maintenance (O&M) and site management from 2001 to 2012. NYSDEC assumed responsibility for site management in 2012. The on-going site management was assigned to HRP in April 2020. This work assignment (WA) includes the following tasks:

- Task 1 Preliminary Activities
- Task 2 Site Management Plan
- Task 3 System Operations and Maintenance
- Task 4 Monitoring and Reporting
- Task 5 Periodic Review and Report
- Task 6 Site Remedial Systems Optimization

This quarterly Operations and Maintenance (O&M) Report summarizes the O&M and monitoring activities completed during the second quarter of 2020 (April through June 2020). This report provides a description of the work performed throughout the reporting period, a discussion of the data obtained, and documents the relevant performance monitoring.



### 2.0 SITE BACKGROUND

### 2.1 Site Location and Current Use

Stanton Cleaners is a former dry cleaning facility located at 110 Cutter Mill Road in Great Neck, Nassau County, New York (The Site location is shown on **Figure 1**). A dry cleaner had operated at the Site since the 1950s. The property had several different owners in subsequent years and the business may have had several names, most recently Stanton Cleaners. Between about 1958 and 1983, waste liquids from the on-Site dry cleaning processes were discharged, spilled, or leaked onto the ground behind the facility (U.S. Department of Health, 2004). The Site is located approximately 1,000 feet north of an active public water supply well field owned and operated by the Water Authority of Great Neck North (WAGNN). The Site is approximately ½ acre and includes a two-story building in which the dry cleaning business operated, an adjacent one-story boiler/storage building, and a building that houses the current remediation system. Site features are depicted on **Figure 2**. The Site is bordered to the west by Cutter Mill Road, to the north and east by a former indoor tennis court, and to the south by a gasoline station. Adjacent areas that have been affected by the contamination include, but are not limited to, the neighboring Plaza Tennis Center, the Century Condominium Complex, the North Shore Sephardic Synagogue, and the Long Island Hebrew Academy.

### 2.2 Remedial History

In June of 1983, the Nassau County Department of Health (NCDH) inspected the Stanton Cleaners facility. According to NCDH files, the inspection revealed a pipe protruding from the rear side of the building. It was noted that the pipe was connected to the dry cleaning fluid/water separator that discharged onto the ground in the rear yard sloping away from the building. To determine the impacts of the separator discharge, soil samples were collected by NCDH in the rear of the building. The results of the analysis indicated the soil was contaminated with tetrachloroethene (PCE) at concentrations up to 8,000 parts per million (ppm). Groundwater sampling conducted in January 1998 by a contractor for the NYSDEC showed PCE; 1,2-dichloroethene (DCE); and trichloroethene (TCE) contamination at, and downgradient of Stanton Cleaners.

On June 8, 1998, the NYSDEC requested that USEPA perform a Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) authorized emergency response action at the Site to address contaminated groundwater impacting the nearby public water supply. The Stanton Cleaners Site was added to the National Priorities List (NPL) on May 17, 1999.

A remediation system was subsequently installed at the Site, which includes Groundwater Extraction and Treatment (GWE&T), soil vapor extraction (SVE), and air sparging. Three (3) extraction wells are associated with the GWE&T system and are equipped with submersible pumps. The extracted groundwater is treated through a 2,000-pound liquid phase granular activated carbon (GAC) vessel prior to discharge to the storm sewer. The SVE system consists of six extraction wells connected to a blower and knockout tank. The extracted vapor is treated through a 3,000-pound vapor phase GAC vessel prior to discharge to the atmosphere. An air sparge system uses a compressor to provide sparge air to the screened interval in two (2) wells.



### 2.3 Site Cleanup Objectives

On-going remedial actions are being implemented to restore the impacted media (soil, soil vapor, and groundwater) to pre-disposal conditions. The closure criterion will ultimately be determined by the NYSDEC based on the future monitoring data. The Standards, Criteria, and Guidance (SCGs) currently used for the various media being sampled at the Site are summarized below.

- Soil NYSDEC Environmental Conservation Law (ECL) 6 New York Code of Rules and Regulations (NYCRR) Part 375-6: Remedial Program Soil Cleanup Objectives (SCOs)
- Groundwater NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
- Soil Vapor New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion (SVI) in the State of New York.



### 3.0 OPERATIONS AND MAINTENANCE PROGRAM

The operations and maintenance program for the Stanton Cleaners Area Superfund Site includes the following:

- Monthly inspections of the GWE&T system and SVE system;
- Monthly sampling and laboratory analysis of GWE&T system influent and effluent. Samples analyzed for VOCs via EPA Method 8260;
- Quarterly sampling of SVE system influent and effluent. Samples analyzed for VOCs via EPA method TO-15; and
- Annually sampling of the system discharge point to the city sewer. Samples will be analyzed for SPEDES Equivalency Parameters.

Environmental Assessment and Remediations (EAR) of Patchogue, New York has been contracted by NYSDEC to perform the monthly, quarterly, and annual sampling activities at the Site as well as the day-to-day O&M of the remediation systems. EAR prepares daily reports during each visit to the Site that summarize Site activities for that day. The daily reports are included in **Appendix A**.

### 3.1 Groundwater Extraction and Treatment System Operations and Maintenance

Extraction well EPA-EXT-02, located at the intersection of Cutter Mill Road and Ascot Road, is currently the only operational extraction well. Four (4) other extraction wells, EPA-EXT-01, EPA-EXT-03, EPA-EXT-04R, and ST-IW-01, are not in operation at this time. The locations of the extraction wells are depicted on **Figure 2**.

The continuous four-hour data logging software, Lookout®, was not functioning during the entirety of the second quarter. When functioning, the Lookout® data is used calculate mass removal rate, total and cumulative flow, and average monthly flow rate.

Based on the field logs, the GWE&T system operated at a flow rate of 63 gallons per minute (GPM) and discharged a total of approximately 8,164,800 gallons during the 2<sup>nd</sup> quarter of 2020. Based on these recorded flow rates, monthly totalizer readings, and analysis of laboratory data for samples collected from EPA-EXT-02, approximately 0.21 pounds (lbs) of PCE have been removed in the liquid phase during the 2<sup>nd</sup> quarter of 2020. This totals 11.0 lbs of PCE removed in the liquid phase since NYSDEC assumed O&M responsibilities in 2013. The VOC mass removal for the 2<sup>nd</sup> quarter of 2020 is summarized on **Table 1**.

### 3.1.1 Groundwater Extraction and Treatment System Influent and Effluent Sampling

Monthly sampling of the GWE&T system influent and effluent is conducted to monitor the efficiency of the system and to determine if liquid GAC breakthrough occurred. Samples were submitted to Eurofins Environment Testing TestAmerica (Eurofins) for analysis of VOCs via EPA Methods 8260.

PCE was detected in the three (3) samples at concentrations ranging from 3.3  $\mu$ g/L to 4.3  $\mu$ g/L. The detections of PCE in the influent samples did not exceed the NYSDEC GWQS of 5  $\mu$ g/L. No VOCs were detected in the effluent samples, with the exception of acetone (6.9  $\mu$ g/L) in the June



sample. The detection of acetone in the June effluent sample does not exceed the NYSDEC GWQS of 50  $\mu$ g/L. The results of influent and effluent sampling during the second quarter of 2020 are summarized in **Table 2**.

### 3.1.2 Groundwater Extraction and Treatment System Annual SPDES Sampling

Annual SPDES sampling of the groundwater extraction and treatment system was not completed during this quarter. The annual sample is scheduled to be collected in the 3<sup>rd</sup> quarter of 2020.

### 3.2 Soil Vapor Extraction System Operations and Maintenance

Air monitoring of the SVE system is performed on a monthly basis. Monitoring includes the field analysis of the following parameters: VOCs, carbon monoxide, oxygen, lower explosive limit, hydrogen sulfide, air velocity (cubic feet per minute), temperature, relative humidity, dew point, and vacuum pressure. The following locations were monitored:

- SVE-Influent
- Post-Blower-Pre-Carbon
- EPA-SVE-1 (shallow)
- EPA-VE-1 (medium)
- EPA-SVE-2 (shallow)
- EPA-SVE-2 (medium)
- SS-A
- SVE-3A
- SVE-3B
- SVE-1 Combined
- SVE-2 Combined
- Background

On April 15, 2020 certain readings could not be obtained from SVE-3B, SVE-1 Combined, and SVE-2 Combined due to moisture in the lines. On May 6, 2020, the flow rate was not able to be obtained from SVE-1 Combined due to moisture in the lines. On June 3, 2020, the multi-gas meter failed and not all locations were monitored. Monthly monitoring logs are included in **Appendix D**.

Samples SVE\_INF and SVE\_EFF were collected from the influent and effluent, respectively, via SUMMA canisters and analyzed for VOCs by TO-15 on June 3, 2020. Concentrations of cis-1,2-dichloroethene at 100 ppbv, PCE at 1,500 ppbv, and TCE at 52 ppbv were detected in SVE\_INF. Concentrations of cis-1,2-dichloroethene at 67 ppbv, dichlorodifluoromethane at 0.80 ppbv, trans-1,2-dichloroethene at 0.93 ppbv, TCE at 0.40 ppbv, and trichlorofluoromethane at 2.7 ppbv were detected in SVE\_EFF. A summary of the SVE influent and effluent sample results is included in **Table 3**.

Flow measurements taken at the SVE-Influent were over the calibration range of the Velocicalc meter used in the field on April 15<sup>th</sup> and June 3<sup>rd</sup>. However, the Velocicalc meter recorded a flow rate of 189 cubic feet per minute (cfm) at the SVE-Influent on May 6, 2020. Using this flow rate and the average concentrations between the last two sampling events (March and June 2020) a mass removal was calculated for the period. Based on the data available, approximately 28.47



Quarterly Operation and Maintenance Report Q2 2020 110 Cutter Mill Road, Great Neck, NY Page 6 of 10

pounds of VOCs were removed by the SVE system during the  $2^{nd}$  quarter of 2020. The VOC mass removal for the  $2^{nd}$  quarter of 2020 is summarized on **Table 4**.



### 4.0 MONITORING PROGRAM

The monitoring program for the Stanton Cleaners Area Superfund Site includes the following:

- Quarterly operations and maintenance reports;
- Monthly gauging of 16 monitoring wells for water level;
- Semi-annual groundwater sampling of the well network for analysis of VOCs via EPA Method 8260;
- Annual soil vapor intrusion sampling at the Long Island Hebrew Academy; and
- Monitoring of the WAGNN supply well.

### 4.1 Plume Perimeter Monitoring

Monitoring wells are gauged for water level on a monthly basis to assess capture zones around the groundwater extraction well EPA-EXT-02. **Figure 3** depicts the network of monitoring wells.

In April 2020, 14 of the 16 wells were gauged and in May and June 2020, 15 of the 16 wells were gauged. The locations and number of wells monitored were previously determined by the USEPA based on the 2014 *Final Capture Zone Analysis Report*. **Appendix D** includes the groundwater level measurements.

### 4.2 Groundwater Sampling

Semi-annual groundwater sampling was not conducted during this quarter. The next routine semi-annual groundwater sampling event is scheduled for the third quarter of 2020. **Table 5** summarizes the groundwater monitoring schedule.

### 4.3 Indoor Air Quality Sampling

Indoor air quality sampling was not conducted during this quarter. The next routine annual indoor air sampling event is scheduled for December 2020.

### 4.4 Water Authority of Great Neck North Public Supply Well Monitoring

Monitoring of the WAGNN public supply well was not conducted during this quarter.



### 5.0 MAINTENANCE ISSUES AND RECOMMENDED SOLUTIONS

The following O&M issues were identified during the 2<sup>nd</sup> quarter of 2020:

- Flow readings at the SVE-Influent were not recorded during April and June 2020 due to the flow rate being over the instrument calibration range. Since a flow reading was not obtained during June 2020 when the influent VOC sample was collected, an estimation of the mass removal was based on the flow reading collected in May 2020. Alternative equipment may be necessary for the monthly flow readings in order to make more accurate mass removal rates for the SVE system.
- The continuous four-hour data logging software, Lookout®, was not functioning during the
  entirety of the second quarter. This software should be fixed in order to help calculate
  mass removal rates, total and cumulative flow, and average monthly flow rates for the
  remediation systems.



#### 6.0 **FUTURE ACTIVITIES**

Future maintenance and monitoring activities at the Site includes the following:

- Routine monthly operations and maintenance activities will continue; and
- Semi-annual groundwater sampling is scheduled to be completed in the third quarter of 2020.



### 7.0 PROGRESS TOWARD CLEANUP OBJECTIVES

Based on review of O&M field notes and laboratory analysis of samples collected from EPA-EXT-02, the GWE&T system removed approximately 0.21 lbs of VOCs during the 2<sup>nd</sup> quarter or 2020. Based on review of O&M field notes and laboratory analysis of SVE-Influent samples analyzed by the laboratory, the SVE system removed approximately 28.47 lbs of VOCs consisting primarily of PCE. The total cost of system O&M during this quarter was \$26,284.65 (Tasks 1 through 4 of the WA). A cost per pound of VOC removal in both liquid and vapor phase is provided below.

Quarterly Cost Summary									
Period	Quarterly O&M Cost	VOC Mass Removed by SVE (lbs)	VOC Mass Removed by GWE&T (lbs)	Total VOC Mass Removed (lbs)	Cost per Pound of VOC Removal				
4/1/2020 - 6/30/2020	\$26,284.65	28.47	0.21	28.68	\$916.48				

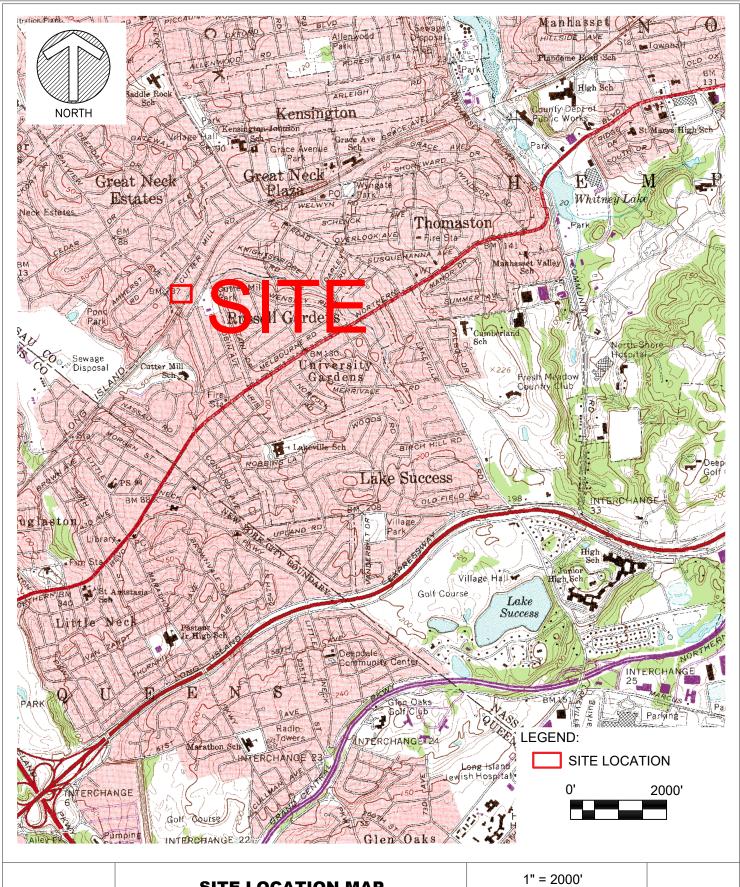
Based on the laboratory data from SVE system influent and the PID readings at the SVE system during each monthly visit, the SVE system continues to recover mass from the subsurface. Modifications to the SVE system are planned for 3<sup>rd</sup> quarter 2020, including the installation of two horizontal SVE (hSVE) wells beneath the buildings on the site. These two hSVE wells will be connected to the existing SVE system for mass removal. Operation of the SVE system should continue until such time that mass removal rates become asymptotic.

The concentrations of PCE detected in the GWE&T system influent samples did not exceed the NYSDEC GWQS during this quarter. Operation of the GWE&T system created a cone of depression and captured dissolved phase VOCs in groundwater between the site and the WAGNN public supply wells. The GWE&T system should continue to operate in order to mitigate potential impacts to the WAGNN supply well.



# **FIGURES**







### SITE LOCATION MAP

STANTON CLEANERS 110 CUTTER MILL ROAD GREAT NECK, NEW YORK 11021

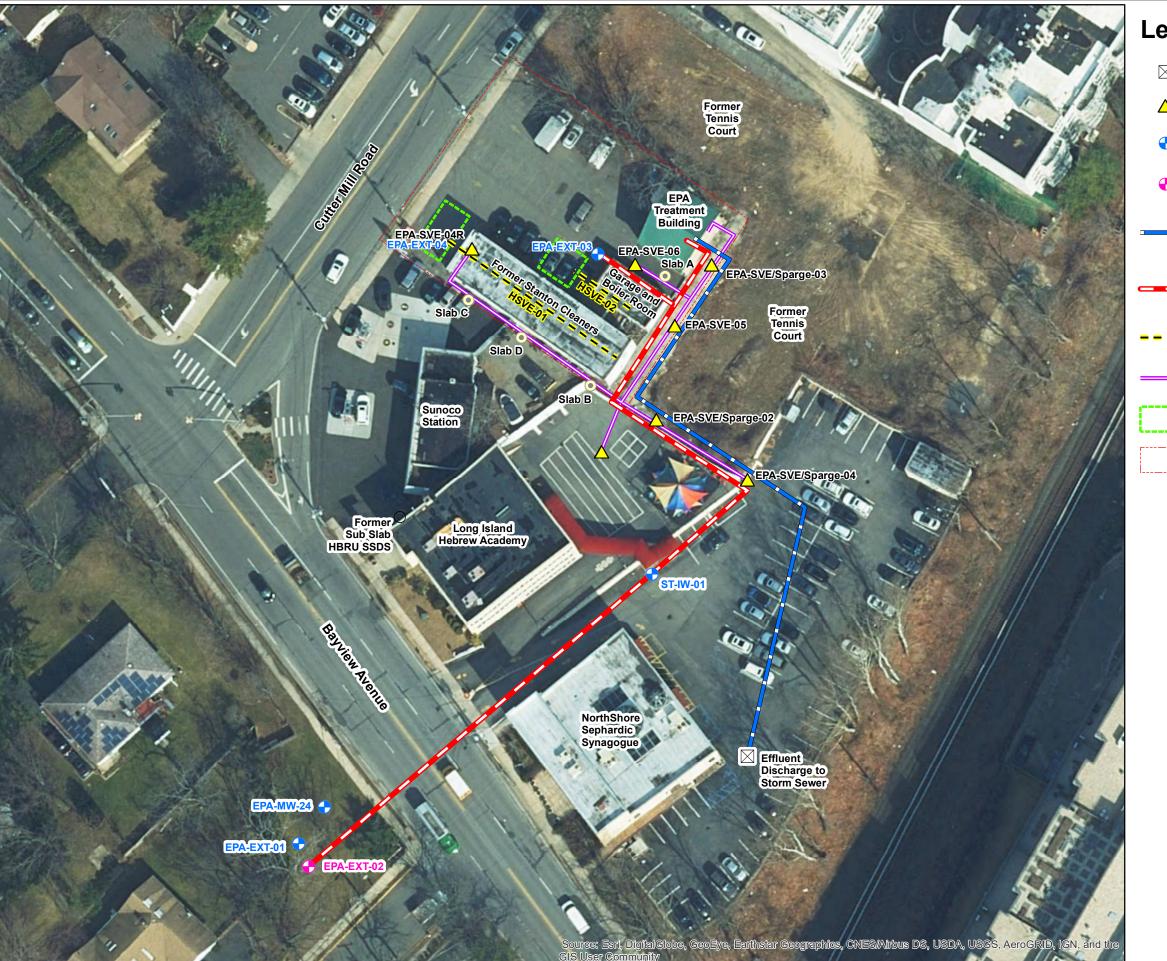
SCALE:

05/13/2020

ISSUE DATE:

DEC1003.OM PROJECT NUMBER:

**FIGURE** 



### Legend

 $\triangle$  5

SVE Well

Non-Operational Extraction Well

Ground Water Extraction Well

Groundwater
Treatment Effluent
Line

Groundwater
Treatment Influent
Line

Proposed Horizontal SVE Well

Existing SVE System Suction Line

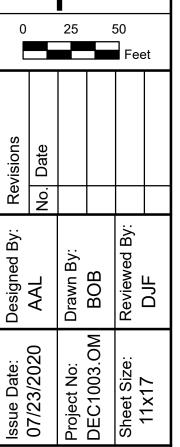
Staging Area and Entry Points

Stanton Cleaners
Property



197 SCOTT SWAMP ROAD FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM

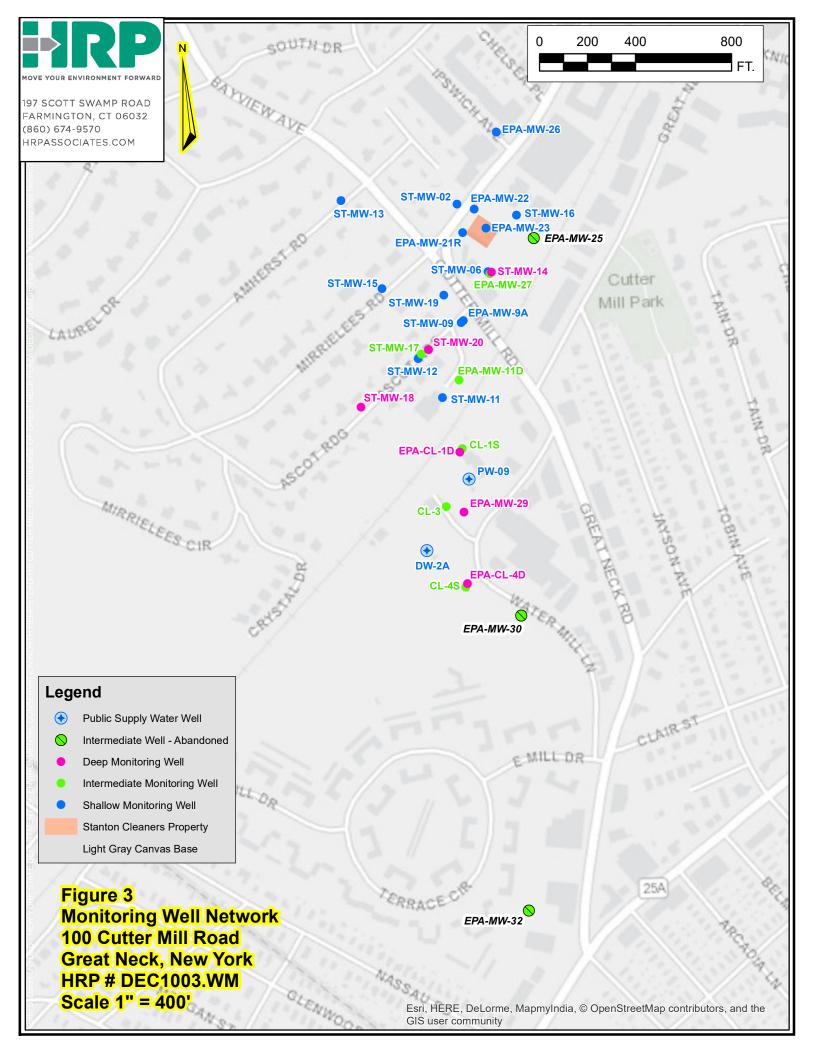
⋀	
	North



Site Layout
Stanton Cleaners Site
110 Cutter Mill Road
Village of Great Neck Plaza
New York

SHEET NO.

Fig. 2



## **TABLES**



Table 1 Groundwater Extraction and Treatment System Summary of VOC Mass Removal Stanton Cleaners - NYSDEC Site # 130072 110 Cutter Mill Road, Great Neck, NY

Sample Date	Period (Number of days between samples)	Total Flow (Gallons)	InfluentPCE Concentration (μg/L)	PCE Mass Removed (lbs/month)	Cumulative PCE Mass Removed (lbs)
3/20/2020		955939.0	5.4	0	10.79
4/15/2020	26	3154729.6	4.2	0.08	10.87
5/6/2020	21	4943370	4.3	0.06	10.93
6/3/2020	28	7305163	3.3	0.07	11.00

#### Notes

PCE = Tetrachloroethylene

lbs = pounds

 $\mu$ g/L = micrograms per cubic liter

### Table 2: Groundwater Extraction and Treatment System - Influent and Effluent Analytical Results

NEW YORK STATE DEPARTMENT OF ENVIROMENTAL CONSERVATION
110 CUTTER MILL ROAD, GREAT NECK, NY
HRP# DEC1003.OM

		La	b Report No Date HRP No	15 Apr 2020 SC	4602071251 15 Apr 2020 SC EPA-EXT-02	4602084011 06 May 2020 SC EFFLUENT	4602084011 06 May 2020 SC EPA-EXT-02	4602105421 03 Jun 2020 SC EFFLUENT	4602105421 03 Jun 2020 SC EPA-EXT-02
		Si	ample Name		EPA-EXT-02	Effluent	Epa-Ext-02	Effluent	Epa-ext-02
Analyte	CAS RN	NYSDEC CLASS GA CRITERIA	Unit	Results	Results	Results	Results	Results	Results
VOC 1,1,1-Trichloroethane	71-55-6		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	79-34-5		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	79-00-5	1 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	I ug/i	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	75-34-3		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene	75-34-3		ug/I	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
,	96-12-8	0.004 ug/l		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	0.004 ug/l	ug/l ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	95-50-1	O.		< 1.0		_			
1,2-Dichlorobenzene 1,2-Dichloroethane	107-06-2	3 ug/l 0.6 ug/l	ug/l	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0
	78-87-5	1 ug/l	ug/l ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	_								
1,3-Dichlorobenzene	541-73-1	3 ug/l	ug/l	< 1.0	< 1.0 < 1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0
1,3-Dichloropropene (cis)	10061-01-5	0.4 ug/l	ug/l	< 1.0 < 1.0		< 1.0 < 1.0	< 1.0		< 1.0
1,3-Dichloropropene (trans)	10061-02-6	0.4 ug/l	ug/l		< 1.0		_	< 1.0	
1,4-Dichlorobenzene	106-46-7	3 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	78-93-3		ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone (Methyl butyl ketone/MBK)	591-78-6		ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	67-64-1		ug/l	< 5.0	< 5.0	< 6.0	< 6.0	6.9	< 6.0
Benzene	71-43-2	1 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene, 1,2,4-trichloro-	120-82-1		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	75-27-4		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	75-25-2		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	74-83-9	120 (1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	75-15-0	120 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	56-23-5	5 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	108-90-7		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	75-00-3	- "	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	67-66-3	7 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	74-87-3		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene	156-59-2		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	110-82-7		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	124-48-1		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	75-71-8		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	100-41-4		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	98-82-8		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
METHYL ACETATE	79-20-9	-	ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl isobutyl ketone (MIBK)	108-10-1	ļ	ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylcyclohexane	108-87-2	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	75-09-2	5 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyltertbutyl ether	1634-04-4		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	100-42-5	5 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene	127-18-4	5 ug/l	ug/l	< 1.0	4.2	< 1.0	4.3	< 1.0	3.3
Toluene	108-88-3		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene	156-60-5		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene	79-01-6	5 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	75-69-4		ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	75-01-4	2 ug/l	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

### Legend

<1	Parameter not detected above the laboratory reporting limit
( )	Indicates the laboratory reporting limit is greater than one or more applicable comparison criteria
BRL	Parameter consists of multiple isomers and were not detected above the laboratory reporting limit
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion

### Table 3 Soil Vapor Extraction System - Influent and Effluent Analytical Results Stanton Cleaners - NYSDEC Site # 130072

110 Cutter Mill Road, Great Neck, NY

			1	1
		Lab Report No:		140193051
		Date:		03 Jun 2020
		HRP No.:	SC	SC
		ID:	SVE_EFF	SVE_INF
		Sample Name:	SVE_EFF	SVE_INF
Analyte	CAS RN	Unit	Results	Results
VOC				
1,1,1-Trichloroethane	71-55-6	ug/m3	< 4.4	< 110
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	< 5.5	< 130
1,1,2-Trichloroethane	79-00-5	ug/m3	< 4.4	< 110
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	ug/m3	< 6.1	< 150
1,1-Dichloroethane	75-34-3	ug/m3	< 3.2	< 79
1,1-Dichloroethylene	75-35-4	ug/m3	< 1.6	< 39
1,2,4-Trimethylbenzene	95-63-6	ug/m3	< 3.9	< 96
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	ug/m3	< 6.1	< 150
1,2-Dichlorobenzene	95-50-1	ug/m3	< 4.8	< 120
1,2-Dichloroethane	107-06-2	ug/m3	< 3.2	< 79
1,2-Dichloropropane	78-87-5	ug/m3	< 3.7	< 90
1,3,5-Trimethylbenzene	108-67-8	ug/m3	< 3.9	< 96
1,3-Dichlorobenzene	541-73-1	ug/m3	< 4.8	< 120
1,3-Dichloropropene (cis)	10061-01-5	ug/m3	< 3.6	< 89
1,3-Dichloropropene (trans)	10061-02-6	ug/m3	< 3.6	< 89
1,4-Dichlorobenzene	106-46-7	ug/m3	< 4.8	< 120
1,4-Dioxane	123-91-1	ug/m3	< 7.2	< 180
2-Butanone (MEK)	78-93-3	ug/m3	< 9.4	< 230
Benzene	71-43-2	ug/m3	< 2.6	< 62
Benzene, 1,2,4-trichloro-	120-82-1	ug/m3	< 5.9	< 150
Benzyl chloride	100-44-7	ug/m3	< 8.3	< 200
Bromodichloromethane	75-27-4	ug/m3	< 5.4	< 130
Bromoform	75-25-2	ug/m3	< 8.3	< 200
Bromomethane	74-83-9	ug/m3	< 3.1	< 76
Carbon tetrachloride	56-23-5	ug/m3	< 2.0	< 49

### Table 3

Soil Vapor Extraction System - Influent and Effluent Analytical Results
Stanton Cleaners - NYSDEC Site # 130072
110 Cutter Mill Road, Great Neck, NY

		Lah Banart Na	140193051	140193051
		Lab Report No: Date:		03 Jun 2020
		HRP No.:		SC
		ID:	SVE_EFF	SVE_INF
	CAS RN	Sample Name:		SVE_INF
Analyte	CAS RN	Unit	Results	Results
VOC		4.0		
Chlorobenzene	108-90-7	ug/m3	< 3.7	< 90
Chloroethane	75-00-3	ug/m3	< 2.1	< 52
Chloroform	67-66-3	ug/m3	< 3.9	< 95
Chloromethane	74-87-3	ug/m3	< 4.1	< 100
cis-1,2-Dichloroethylene	156-59-2	ug/m3	260	400
Cyclohexane	110-82-7	ug/m3	< 6.9	< 170
Dibromochloromethane	124-48-1	ug/m3	< 6.8	< 170
Dichlorodifluoromethane	75-71-8	ug/m3	4.0	< 97
Ethanol	64-17-5	ug/m3	< 38	< 920
Ethylbenzene	100-41-4	ug/m3	< 3.5	< 85
Hexachlorobutadiene	87-68-3	ug/m3	< 8.5	< 210
m/p-Xylenes	179601-23-1	ug/m3	< 3.5	< 85
Methyl isobutyl ketone (MIBK)	108-10-1	ug/m3	< 8.2	< 200
Methylene chloride	75-09-2	ug/m3	< 14	< 340
Methyltertbutyl ether	1634-04-4	ug/m3	< 5.8	< 140
Naphthalene	91-20-3	ug/m3	< 10	< 260
o-Xylene	95-47-6	ug/m3	< 3.5	< 85
Styrene	100-42-5	ug/m3	< 3.4	< 83
t-Butyl alcohol	75-65-0	ug/m3	< 9.7	< 240
Tetrachloroethylene	127-18-4	ug/m3	< 5.4	10000
Toluene	108-88-3	ug/m3	< 4.5	< 110
trans-1,2-Dichloroethylene	156-60-5	ug/m3	3.7	< 77
Trichloroethylene	79-01-6	ug/m3	2.1	280
Trichlorofluoromethane	75-69-4	ug/m3	15	< 110
Vinyl chloride	75-01-4	ug/m3	< 1.0	< 25

### Legend

<1 Parameter not detected above the laboratory reporting limit

( ) Indicates the laboratory reporting limit is greater than one or more applicable comparison criteria

BRL Parameter consists of multiple isomers and were not detected above the laboratory reporting limit

#### Notes

μg/m3 = micrograms per cubic meter



Table 4
SVE System
Summary of VOC Mass Removal
Stanton Cleaners - NYSDEC Site # 130072
110 Cutter Mill Road, Great Neck, NY

Sample Date	Period (Days)	PCE Concentration (mg/m³)	TCE Concentration (mg/m³)	cis-1,2-DCE Concentration (mg/m³)	Flowrate (cfm)	Ave. PCE Concentration (mg/m³)	PCE Discharge (lbs)	Ave. TCE Concentration (mg/m³)	TCE Discharge (lbs)	Concentration	cis-1,2-DCE Discharge (lbs)	Cumulative VOC Mass Removed (Lbs)
3/20/2020	1	34.00	0.41	0.40	189	17.00	0.29	0.21	0.00	0.20	0.00	0
6/3/2020	75	10.00	0.28	0.40	189	22.00	28.03	0.35	0.44	0.40	0.00	28.47

#### Notes:

PCE = Tetrachloroethylene

TCE = Trichloroethylene

Cis1,2-DCE = cis-1,2-dichloroethylene

cfm = cubic feet per minute

ave. = average

lbs = pounds

mg/m<sup>3</sup> = milligrams per cubic meter

### Table 5: Well Monitoring Schedule Stanton Cleaners Area Superfund Site 110 Cutter Mill Road, Great Neck, NY

Well ID	Monthly Gauging	Semi-Annual Sampling
EPA-MW-9A	х	
EPA-MW-11D	х	х
EPA-MW-21R	х	
EPA-MW-22		
EPA-MW-23	х	х
EPA-MW-26	х	х
EPA-MW-27	х	х
ST-MW-02		
ST-MW-11	х	
ST-MW-12	х	х
ST-MW-13	х	х
ST-MW-14	х	х
ST-MW-15	х	х
ST-MW-16	х	х
ST-MW-17	х	х
ST-MW-18	х	
ST-MW-19	х	х
ST-MW-20	х	х
EPA-CL-4D		х
CL-4S		х

Note: Semi-annual sampling conducted in January and July

### APPENDIX A

Daily Operation and Maintenance Reports



**NYSDEC** 

Division of Environmental Remediation





### NYSDEC Contract No. D011107

Superintendent:

NYSDEC PM: P. Long

Consultant PM: M. Wright

Consultant Site Inspectors: J.

Brown

Site Location: 110 Cutter Mill Rd, Great Neck, NY

	Weather Conditions				
General Description	overcast	AM	n/a	PM	
Temperature	44	AM	n/a	PM	
Wind	NW	AM	n/a	PM	

### **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

### **Health & Safety Comments**

Summary of Work Performed	Arrived at site:	0615	Departed Site:	0945
---------------------------	------------------	------	----------------	------

Onsite for routine monthly O&M of GWETS and SVE systems include GWETS water sampling and water level gauging at monitoring wells.

### **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers a	nd placards? *Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting	the work site? * Yes	No	NA

### **Personnel and Equipment**

Individual	Company	Trade	Total Hours
Jason Brown	EAR	Technician	3.5



\*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment Description** Contractor/Vendor Quantity Used Transit/van PID EAR Yes EAR Yes AVM EAR Yes 4-gas meter EAR Yes 1 Imported/ Daily **Waste Profile** Source or Disposal **Exported** Daily Delivered Weight **Material Description** off Site Facility (If Applicable) Loads (If Applicable) to Site (tons)\*

Equipment/Material Tracking Comments:				
Visitors to Site				
Visitors to Site				
	1		<u>,                                      </u>	
Name	Rep	oresenting		xclusion/CRZ Zone
			Yes	No
O'the December of the Control of the			Yes	No
Site Representatives		<b>D</b>		
Name		Representing		
Project Schedule Comments				
Troject concadic comments				
Issues Pending				
100000 i ciraling				

Interaction with Public, Property Owners, Media, etc.			
N/A. Warehouse closed – unable to access vapor monitoring points.			
	ļ		

Include (insert) figures with markups showing location of work and job progress



Site Photographs (Descriptions Below)	

port No.	Stanton Cleaners - NYSDEC Si	ite No. 130072	Date: 4/15/20
Comments			
Site Inspecto	or(s): JB		Date: 4/15/20

### DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments:		
		ļ

### REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No □
If Yes	to <u>any</u> of 1-4 above:  If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be		
•	accomplished remotely/without entry, postpone or conduct service without entry.  If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes □	No 🗆
Comme	ents:		



### **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No □	N/A⊠
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Was turbidity checked at the Montauk Highway outfall?	AM □	РМ□	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Was the temporary fabric structure closed at the end of the day?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No □	N/A⊠
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments:			

**NYSDEC** 

Division of Environmental Remediation





**NYSDEC Contract No.** D011107

Site Location: 110 Cutter Mill Rd, Great Neck, NY

Weather Conditions				
<b>General Description</b>	Cloudy	AM	Cloudy	PM
Temperature	50	AM	50	PM
Wind	ENE	AM	NE	PM

Superintendent:

Date: 5/6/20

NYSDEC PM: P. Long

Consultant PM: M. Wright Consultant Site Inspectors: J.

**Health & Safety** 

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

, ,			
Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

### **Health & Safety Comments**

General safety precautions and PPE used. Socially safe distances observed

Summary of Work Performed	Arrived at site:	0800	Departed Site:	1100
---------------------------	------------------	------	----------------	------

Onsite for routine monthly O&M of GWETS and SVE systems including GWETS water sampling and water level gauging at monitoring wells. HRP personnel onsite to review system and oversee O&M.

### **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers as	nd placards? *Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting	the work site? * Yes	No	NA

### **Personnel and Equipment**

Individual	Company	Trade	Total Hours
Jason Brown	EAR	Technician	3.0
Dave Adam	HRP	Consulting Engineer	2.0
Kristin Amodeo	HRP	Consulting Engineer	2.0



Date: 5/6/20

Report No. Stanton Cleaners - NYSDEC Site No. 130072

\*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment Description** Contractor/Vendor Quantity Used Transit/van PID EAR Yes EAR Yes AVM EAR Yes EAR 4-gas meter Yes Vehicles HRP Yes Imported/ Daily **Waste Profile** Source or Disposal **Exported** Daily Delivered Weight **Material Description** off Site Facility (If Applicable) Loads (If Applicable) (tons)\* to Site

Equipment/Material Tracking Comments:					
Visitors to Site					
Visitors to one					
Name	Rep	presenting	Entered E	xclusion/CRZ Zone	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
Site Representatives				·	
Name		Representing			
Project Schedule Comments					
•					
Issues Pending					
<b>.</b>					



Interaction with Public, Property Owners, Media, etc.	nteraction with Public, Property Owners, Media, etc.						
N/A. Warehouse closed – unable to access vapor monitoring points.							

Include (insert) figures with markups showing location of work and job progress

## **Site Photographs (Descriptions Below)**





System compound

General site conditions



	 _	

ort No.	Stanton Cleaners - NYSDEC Site No. 130072	Date: 5/6/20	
Site Inspe	ector(s): JB (photos from HRP)	Date: 5/6/20	

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments:		

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No □
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.  If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes □	No □
Comm	<u>ents:</u>		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No □	N/A⊠
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Was turbidity checked at the Montauk Highway outfall?	AM □	РМ□	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Was the temporary fabric structure closed at the end of the day?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No □	N/A⊠
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments:			

Division of Environmental Remediation

Report No. Stanton Cleaners - NYSDEC Site No. 130072

NEW YORK STATE Department of Environmental Conservation



# NYSDEC Contract No. D011107

Superintendent:

Date: 6/3/20

NYSDEC PM: P. Long

Consultant PM: M. Wright

Consultant Site Inspectors: J.

Brown

Site Location: 110 Cutter Mill Rd, Great Neck, NY

Weather Conditions					
<b>General Description</b>	Cloudy	AM	Cloudy	PM	
Temperature	66	AM	78	PM	
Wind	SW	AM	SW	PM	

#### **Health & Safety**

**NYSDEC** 

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

, , , , , , , , , , , , , , , , , , , ,			
Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

#### **Health & Safety Comments**

General safety precautions and PPE used. Socially safe distances observed

Summary of Work Performed	Arrived at site:	0715	Departed Site:	1215
---------------------------	------------------	------	----------------	------

Onsite for routine monthly O&M of GWETS and SVE systems including GWETS water sampling and water level gauging at monitoring wells. Collected quarterly SVE air samples. Collected spent carbon sample at SVE VGAC vessel. Conducted weed/vine removal.

### **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA

#### **Personnel and Equipment**

Individual	Company	Trade	Total Hours
Jason Brown	EAR	Technician	5.0
i			1



**Equipment Description** Quantity Contractor/Vendor Used Transit/van EAR Yes PID EAR Yes AVM EAR Yes 1 4-gas meter Water level Meter EAR Yes Yes EAR Imported/ Daily Source or Disposal Facility (If Applicable) **Waste Profile** Exported Daily Weight (tons)\* **Material Description** Delivered off Site Loads (If Applicable) to Site \*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments: Visitors to Site** Name Representing **Entered Exclusion/CRZ Zone** Yes No No Yes Yes No Yes No No Yes Yes No Yes No Yes No Yes No Site Representatives Name Representing **Project Schedule Comments Issues Pending** 



Interaction with Public, Property Own	ers, Media, etc.

Include (insert) figures with markups showing location of work and job progress









Weed encroachment

Following weed removal









Weed encroachment

Following weed removal





<u> </u>		
Comments		
Site Inspector(s): JB	Date: 6/3/20	

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments:		
		ļ

# REMEDIAL ACTIVITIES AT PROPERTIES

<ol> <li>Have anyone at this location been tested and confirmed to have COVID-19?</li> </ol>	Yes □	No ⊠
Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No □
<ul> <li>If Yes to <u>any</u> of 1-4 above:</li> <li>If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.</li> <li>If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.</li> </ul>	Yes □	No □
Comments:		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No □	N/A⊠
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Was turbidity checked at the Montauk Highway outfall?	AM $\square$	PM □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Was the temporary fabric structure closed at the end of the day?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No □	N/A⊠
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
<u>Comments:</u>			

# APPENDIX B

Groundwater Extraction and Treatment System Operation and Maintenance Reports

**Date**: 4/15/2020 **Tech**: JB

Weather	Sun	Partly Cloudy	Overcast	Rain	
Temp °F	<32	32-50	50-70	70-85	>85
Wind	Light	Moderate	High		
Humidity	Dry	Moderate	Humid		
Wind Dir	NE	NW	SE	SW	
Willia Dif	NE	S	E	W	

Time Onsite	On:	6:15 Off:	9:45	
-------------	-----	-----------	------	--

### **Activities Log**

/ tetivities Et	<b>'</b> 0
Time	Task
630	gauged wells
745	systems monitoring
900	systems monitoring GWETS sampling

### **GWETS**

### **Digital Readings from Catwalk:**

### Flow Meter Reading:

_ 8 8		
Discharge pH:	4.91	Flow Rate (GPM): 64
Discharge Temp (°C):	23	Total Gallons: 3154729.6 @ 07:35
Discharge Conductivity:	-0.11	(meter display in 100 of gallons)

### **Effluent Flow Meter Reading:**

Flow Rate (GPH):	293
Total Gallons:	511422896 @ 7:38

**Date**: 5/6/2020 **Tech**: JB

Weather	Sun	Partly Cloudy	Overcast	Rain	
Temp °F	<32	32-50	50-70	70-85	>85
Wind	Light	Moderate	High		
Humidity	Dry	Moderate	Humid		
Wind Dir	NE	NW	SE	SW	
Willia Dii	NE	S	E	W	

Time Onsite	On:	8:00 Off:	11:00	
-------------	-----	-----------	-------	--

### **Activities Log**

	· O
Time	Task
800	Onsite. Met with HRP staff (Dave Adam, Kristin Amodeo). Gauged wells and reviewed system.
1000	HRP staff offsite. Collected system readings
1045	Collected GWETS water samples
1100	Offsite

### **GWETS**

### **Digital Readings from Catwalk:**

### Flow Meter Reading:

Discharge pH:	5.16	Flow Rate (GPM): 61
Discharge Temp (°C):	19	Total Gallons: 4943370.0 @ 10:00
Discharge Conductivity:	-1.2	(meter display in 100 of gallons)

## **Effluent Flow Meter Reading:**

Flow Rate (GPH):	258			
Total Gallons:	8623128.1 @ 10:04			

Computer Totalizer Display: 516392740 @ 10:00

Date:	6/3/2020	Tech:	JB

Weather	Sun	Partly Cloudy	Overcast	Rain	
Temp °F	<32	32-50	50-70	70-85	>85
Wind	Light	Moderate	High		
Humidity	Dry	Moderate	Humid		_
Wind Dir	NE	NW	SE	SW	
VVIII DII	NE	S	Е	W	

Time Onsite	On:	7:15 Off:	12:15	
-------------	-----	-----------	-------	--

#### **Activities Log**

/ tetivities Le	<b>'6</b>
Time	Task
715	Onsite. Gauged wells.
815	Site cleanup.
930	Systems monitoring and inspection
1030	Sample collection (GWETS, SVE, SVE carbon)

### **GWETS**

### **Digital Readings from Catwalk:**

### Flow Meter Reading:

Discharge pH:	5.07	Flow Rate (GPM): 63
Discharge Temp (°C):	21	Total Gallons: 7305163.0 @ 9:03
Discharge Conductivity:	-1.1	(meter display in 100 of gallons)

### Effluent Flow Meter Reading:

Flow Rate (GPH):	258	
Total Gallons:	1462.4 @ 9:04	** - Tech mistakenly reset totalizer prior to reading.

Computer Totalizer Display: 522957439 @ 9:07

# APPENDIX C

Soil Vapor Extraction System Operation and Maintenance Reports



**Date:** 4/15/2020 **Tech:** JB

**SVE Air Monitoring Log** 

		<b>.</b>									
_	Instrument: 4-gas meter						Instrument: Velocicalc				
								Vac/Press		Dew Pt	Flow
	Pipe ID	VOC *	CO	O2(%)	LEL(%)	H2S	Temp (F)	(inH2O)	%RH	(F)	(cfm)
SVE-Influent	5.709	1621	0	20.9	0	0	59	-12.1	1	-	over
Post-Blower-Pre-Carbon	5.706	1776	0	19.9	0	0	113	1.8	1	-	200
EPA-SVE-1 (shallow)	1.913	0	0	20.9	0	0	59	-2.8	1	-	3.6
EPA-VE-1 (medium)	1.913	0	0	20.9	0	0	59	-3.1	-	-	2.8
EPA-SVE-2 (shallow)	1.913	1820	0	20.9	0	0	59	-0.6	-	-	3.1
EPA-SVE-2 (medium)	1.913	26.1 ppm	0	20.9	0	0	59	-0.7	-	-	2.5
SS-A	1.913	380	0	20.9	0	0	59	-5.1	1	-	26
SVE-3A	1.913	88.0	0	20.9	0	0	59	-6.1	-	-	75
SVE-3B	1.913	530	0	20.7	0	0	59	-5.5	-	-	-
SVE-1 Combined	1.913	-	0	20.9	0	0	59	-4	-	-	-
SVE-2 Combined	1.913	390	0	20.9	0	0	59	-3.1	-	-	-
Background	n/a	0.0	0	20.9	0	0	48	n/a	ı	-	n/a

SVE Air Flow Rate:
Notes:
SVE-3B, SVE-1 Combined, SVE-2 Combined - Some readings could not be obtained due to moisture in lines.
GWETS water samples collected.
* ppb unless noted otherwise

**Date:** 5/6/2020 **Tech:** JB

**SVE Air Monitoring Log** 

_	Instrument: 4-gas meter						Instrument: Velocicalc				
								Vac/Press		Dew Pt	Flow
	Pipe ID	VOC *	СО	O2(%)	LEL(%)	H2S	Temp (F)	(inH2O)	%RH	(F)	(cfm)
SVE-Influent	5.709	0.1 ppm	0	20.9	0	0	63	-12.6	45	42	189
Post-Blower-Pre-Carbon	5.706	1.7 ppm	0	20.9	0	0	80	0.8	86	76	29
EPA-SVE-1 (shallow)	1.913	.1 ppm	0	20.9	0	0	59	-2.2	43	37	4.8
EPA-VE-1 (medium)	1.913	0.0	0	20.9	0	0	53	-4.2	42	31	8.4
EPA-SVE-2 (shallow)	1.913	0.0	0	20.9	0	0	53	-0.9	49	35	6.6
EPA-SVE-2 (medium)	1.913	0.0	0	20.9	0	0	54	-1.1	68	44	5.7
SS-A	1.913	0.0	0	20.9	0	0	54	-5.6	54	38	22
SVE-3A	1.913	0.0	0	20.9	0	0	53	-8.4	55	38	30
SVE-3B	1.913	4.1 ppm	0	20.9	0	0	53	-6.9	65	42	90
SVE-1 Combined	1.913	water	0	20.9	0	0	54	-4.3	59	40	water
SVE-2 Combined	1.913	0.0	0	20.9	0	0	52	-5.5	56	37	48
Background	n/a	0.0	0	20.9	0	0	50	-	20	38	-

SVE Air Flow Rate:	
Notes:	
SVE-1 Combined - Some readings could not be obtained due to moisture in lines.	
GWETS water samples collected.	
* ppb unless noted otherwise	

**Date:** 6/3/2020 **Tech:** JB

**SVE Air Monitoring Log** 

		SVE / III WOMENING EDG									
		Instrument	Instrument: 4-gas meter				Instrument: Velocicalc				
								Vac/Press		Dew Pt	Flow
	Pipe ID	VOC *	СО	O2(%)	LEL(%)	H2S	Temp (F)	(inH2O)	%RH	(F)	(cfm)
SVE-Influent	5.709	2.0 ppm	0	20.9	0	0	78	-12.4	-	-	over
Post-Blower-Pre-Carbon	5.706	2.1 ppm	0	20.9	0	0	117	0.7	1	-	201
EPA-SVE-1 (shallow)	1.913	0.0	0	20.9	0	0	75	-8.0	1	-	6
EPA-VE-1 (medium)	1.913	0.0	0	20.9	0	0	76	-5.7	-	-	9
EPA-SVE-2 (shallow)	1.913	0.0	-	-	-	-	77	-0.7	-	-	7
EPA-SVE-2 (medium)	1.913	0.0	1	-	-	-	77	-0.6	1	-	14
SS-A	1.913	0.0	1	-	-	-	76	-6.7	1	-	27
SVE-3A	1.913	0.6 ppm	-	-	-	-	76	-8.0	-	-	water
SVE-3B	1.913	1.1 ppm	-	-	-	-	77	-6.6	-	-	6
SVE-1 Combined	1.913	water	-	-	-	-	76	-5.6	-	-	water
SVE-2 Combined	1.913	0.0	-	-	-	-	75	-4.5	-	-	57
Background	n/a	0.0	0	20.9	0	0	78	-	1	-	-

Notes:	
Multi-gas meter failure during site visit. Not all locations could be monitored.	
vapor-phase carbon sample collected.	
* ppb unless noted otherwise	

# APPENDIX D

Monthly Groundwater Level Measurements



**Date**: 4/15/2020 **Tech**: JB

### **Water Level Data Summary**

Well ID	Time	DTW (ft)	Comments
EPA-MW-26		57.29	
ST-MW-16		50.02	
EPA-MW-23		-	
EPA-MW-27		48.11	
ST-MW-14		47.50	
ST-MW-11		57.08	
EPA-MW-11D		56.77	
ST-MW-18		102.1	
ST-MW-12		67.99	
ST-MW-17		67.66	
ST-MW-20		64.11	
EPA-MW-9A		59.99	
ST-MW-19		76.61	
ST-MW-15		70.88	
ST-MW-13		86.90	
EPA-MW-21R		-	No access - station fenced off

**Date**: 5/6/2020 **Tech**: JB

#### **Water Level Data Summary**

Well ID	Time	DTW (ft)	Comments
EPA-MW-26		57.71	
ST-MW-16		53.95	
EPA-MW-23		62.94	
EPA-MW-27		50.08	
ST-MW-14		54.71	
ST-MW-11		58.6	
EPA-MW-11D		58.96	
ST-MW-18		71.52	
ST-MW-12		71.02	
ST-MW-17		69.44	
ST-MW-20		70.59	
EPA-MW-9A		60.11	
ST-MW-19		65.42	
ST-MW-15		81.69	
ST-MW-13		87.22	
EPA-MW-21R		-	No access - station fenced off

**Date**: 6/3/2020 **Tech**: JB

# Water Level Data Summary

Well ID	Time	DTW (ft)	Comments
EPA-MW-26		57.31	
ST-MW-16		50.07	
EPA-MW-23		61.88	
EPA-MW-27		46.99	
ST-MW-14		47.04	
ST-MW-11		57.08	
EPA-MW-11D		56.21	
ST-MW-18		98.10	
ST-MW-12		68.90	
ST-MW-17		67.77	
ST-MW-20		64.20	
EPA-MW-9A		60.44	
ST-MW-19		76.29	
ST-MW-15		71.60	
ST-MW-13		86.99	
EPA-MW-21R		-	No access - station fenced off
	· ·		