

Periodic Review Report (January 1, 2014 – December 1, 2014

STANTON CLEANERS

NYSDEC Site Number 130072

Work Assignment # D007625-06

April 30, 2015

Prepared for

New York State Department of Environmental

Conservation

625 Broadway Albany, NY 12233





Enclosure 1 Engineering Controls • Standby Consultant/Contractor Certification Form



	Cita Dataila	Box 1	
Sit	Site Details e No. 130072	DUX I	
Sit	e Name Stanton Cleaners		
Cit	Address: 110 Cutter Mill Road Zip Code: 11021 //Town: Great Neck unty: Nassau Acreage: 0.4		
Re	porting Period: January 1, 2014 to December 31, 2014		
		YES	NO
1.	Is the information above correct?	X	
	If NO, include handwritten above or on a separate sheet.		
2.	To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3.	To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		x
4.	To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	To your knowledge is the site currently undergoing development?		×
		Dava	
		Box2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Industrial	X	
7.	Are all ICs/ECs in place and functioning as designed?	X	
IF DI	THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact CPM regarding the development of a Corrective Measures Work Plan to address the	ot the nese issu	ues.
Si	nature of Standby Consultant/Contractor Date		

SITE NO. 130072 Box3

Description of Institutional Controls

Parcel

Owner

2-376-8

Alan Greenburg

Institutional Control

Monitoring Plan

Site Management Plan

O&M Plan

EPA ROD calls for groundwater use restrictions, but does not specify if it will be in the form of a deed restriction or easement.

Box4

Description of Engineering Controls

Parcel

Engineering Control

2-376-8

Groundwater Treatment System

Vapor Mitigation

Air Sparging/Soil Vapor Extraction

The Selected Remedy included:

-Upgrade of the Existing Groundwater Extraction and Treatment System

- Groundwater Plume Enhanced Capture and Treatment System with aqueous-phase discharge treatment as necessary
- Continued Operation of the Source Control SVE System, including vapor-phase discharge treatment as necessary
- -A groundwater monitoring well network currently includes fifteen (15) observation wells.
- -. Indoor air monitoring and vapor mitigation as appropriate

	Periodic Review Report (PRR) Certification Statements		
1.	I certify by checking "YES" below that:		
	 a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification, including data and material prepared contractors for the current certifying period, if any; 		
	b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gene engineering practices; and the information presented is accurate and compete.		
	engineering practices, and the information presented is accurate and compete.	YES	NO
		X	
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that following statements are true:	each Ins it all of th	stitutional e
	(a) the Institutional Control and/or Engineering Control(s) employed at this site the date that the Control was put in-place, or was last approved by the Departm	is unchar ent;	nged since
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth and
	(c) nothing has occurred that would constitute a failure to comply with the Site !	Vlanagem	nent Plan, or
	equivalent if no Site Management Plan exists.	YES	NO
		Х	
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address the	ese issu	es.
	Signature of Standby Consultant/Contractor Date		

IC/ECCERTIFICATIONS

Box6

Professional Engineer Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Erich Zimmerman

HDR

One International Blvd. 10th Floor Mahwah, NJ 07405 NEW am certifying as a Professional Engineer. 04/30/15

Signature of Professional Engineer

Stamp (Required for PE)

Date

STANTON CLEANERS

(NYSDEC Site Number 130072)

January 1, 2014 – December 31, 2014

NYSDEC STANDBY ENGINEERING CONTRACT

Work Assignment #D007625-06

PREPARED FOR

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 BROADWAY

ALBANY, NEW YORK 12233



Prepared by



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Albany, NY 12211

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ACRONYMS AND ABBREVIATIONS

1,1,1-TCA 1,1,1-trichloroethane 1,1-DCE 1,1-dichloroethene

AS/SVE air sparging/soil vapor extraction

Bgs below ground surface

cVOC chlorinated volatile organic compound

EDD electronic data deliverable GAC granular activated carbon

GPM gallons per minute

GWE&TS groundwater extraction and treatment system

HDR Henningson, Durham & Richardson Architecture and

Engineering, PC.

MW monitoring well

NPL National Priorities List

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

O&M operation and maintenance

PCE tetrachloroethene ppb parts per billion

PRP potentially responsible party

RI remedial investigation ROD record of decision

SG soil gas

SPDES State Pollution Detection and Elimination System

SVE soil vapor extraction
SVI soil vapor intrusion
TCL target compound list
UGA upper glacial aquifer

USEPA United States Environmental Protection Agency

VOC volatile organic compound

WAGNN Water Authority of Great Neck North

μg/l micrograms per liter

Executive Summary

The Stanton Cleaners Area Groundwater Contamination Site (the Site) in Great Neck, NY is currently listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 4 (NYSDEC Site#130072). This designation is for sites that are properly closed but require continued site management until the remedial objectives are achieved. As a result of the dry cleaning operations on the site, tetrachloroethylene (PCE) migrated from the site's subsurface soils into the indoor air environments of the surrounding buildings and into the groundwater beneath the site. In 1983 approximately 20 cubic yards of contaminated soil were removed from the site. In 1986 NYSDEC funded the construction of an air stripper treatment system for the Water Authority of Great Neck North (WAGNN) water supply wells located ~1000 feet down gradient of the site. In 2001 EPA installed an active sub slab depressurization system (SSDS) on a school adjacent to the site, and completed construction of the currently operating air sparge/soil vapor extraction (AS/SVE) and groundwater extract and treat system (GWE&TS).

The remedial program at the Site has been effective in reducing contaminant in the groundwater on and off site and in the soil vapor on and off site. Samples from the GWE&TS groundwater Influent and effluent were collected in January, August, September, November and December 2014. The concentration of PCE from the influent ranged between <1 (ND) (December 2014) to 21 µg/l (August 2014), 16 µg/l above the groundwater standard of 5 µg/l. Samples collected during 2014 in November from the influent to the SVE system showed the concentration of soil vapor to be approximately 12,884 ug/m³ while the GWE&T system is operational. The apparent influence on the soil vapor concentrations as a result of the GWE&TS operation will be evaluated during future efforts to optimize the remedial system. It is possible that the operation of the GWE&TS results in hydraulic isolation of certain portions of the aquifer where residual contamination is still present. Although the exact mechanism remains unknown at this time it appears that when the GWE&TS is not operating contamination is mobilized to the vapor phase.

At this time the on-going activities at the Site are in compliance with the major elements of the Site Management Plan including the on-going monitoring program and system operation and maintenance. The institutional and engineering controls are in place and unchanged since the NYSDEC assumed responsibility for the Site and the existing controls remain protective of public health and the environment.

HDR recommends continuation of the current site management program. The noted concentrations of PCE in the groundwater and soil vapor samples collected as part of the monitoring program indicate that it is not appropriate at this time to modify or discontinue the site management activities. The next PRR will be submitted in January 2016.

Site Overview

Site Location and Current Use

The Stanton Cleaners Area Groundwater Contamination Site is located at 110 Cutter Mill Road in Great Neck, Nassau County, New York (Figure 1). The Stanton Cleaners property is

approximately ¼ acre in size and includes a two-story building in which a dry-cleaning business operates and an adjacent one-story boiler/storage building as well as a two-story treatment building. During an inspection in 2014 the DEC verified that the facility terminated the use of a fourth generation PCE dry cleaning machine and had surrendered their Air Facility Registration. The Site is bordered by an adjacent empty lot which formerly contained an indoor tennis facility, as well as by a synagogue and school facility. The surrounding area is largely urbanized with various mixed uses with residential areas on the side streets and commercial buildings along the main roadways. The entire area is serviced by public water and sewer with WAGNN being the primary water supplier. Three WAGNN public water supply wells are located approximately 1000 feet west (downgradient) of the Site. Two of these wells are approximately 145 ft deep and the third well is 434 ft deep. The two 145 ft deep wells are designated as PW-2A (N-12796) and PW-9 (N-4388) and both are completed in the deeper portion of the upper glacial aquifer (UGA). The third deep well (currently out of service) is designated as PW-11 and is completed in the Lloyd Aquifer which is not believed to be impacted by the Site. The treatment system on the WAGNN supply wells is currently in operation and VOC contamination has been reduced to below federal and state drinking water standards. The last time it exceeded the 5 µg/l state and federal standard prior to treatment by the air stripper was April 2, 2014.

Remedial Program

Improper handling and disposal of spent dry cleaning solvents, including PCE, resulted in the release of hazardous substances at the Site. PCE migrated from the Site's subsurface soils into the indoor air environments of the surrounding buildings and into groundwater beneath the Site, resulting in a significant threat to human health. Remedial measures at the Site began as early as 1983 and a brief chronological summary of the activities is outlined below.

- ➤ 1983: Approximately 20 cubic yards of PCE-contaminated soil was removed from behind the Stanton Cleaners property
- ➤ 1989: A GWE&TS was installed by the potentially responsible party (PRP). The system performed poorly and was abandoned shortly after.
- ➤ 1993: The Site was listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 2 site.
- ➤ 1998: A new air stripper treatment system for the Site-impacted WAGNN water supply wells was installed.
- 1998/1999: USEPA assistance was requested, the Site was proposed for addition to the Nation Priorities List (NPL), a Record of Decision (ROD) was finalized, and Site formally added to the NPL in May 1999.
- ➤ 2001: The USEPA completed the construction and installation of a SVE system and a GWE&TS on the property to address and contain the on-site source of contamination.
- ➤ 2002: Two 500 gallon underground PCE storage tanks were removed.
- ➤ 2008: The first five year review of the Site was conducted by the USEPA. The review concluded that the remedy was in place and functioning as intended. The review did not identify any significant issues that required attention.
- 2011: Stanton Cleaners was reclassified from a Class 2 to a Class 4 Inactive Hazardous Waste Site.

- ➤ 2012: The USEPA completed construction and installation of a complementary groundwater air sparge system and began its operation in March 2012.
- ➤ 2013: The second five year USEPA review was initiated in December 2013 and Finalized in 2014.

2.3 Site Cleanup Objectives

Media	Standards, Criteria, & Guidance	Results
Groundwater	NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations	PCE detected in the influent GW samples at <1 - 21 μg/l, exceeds the 5 μg/l standard. PCE in the groundwater continues to gradually decrease onsite, Remedial Action Objectives (RAO's) are to decrease concentrations below GW standards.
Soil	Environmental Conservation Law (ECL) 6 NYCRR Part 375-6: Remedial Program Soil Cleanup Objectives	No soil samples collected during this period.
Soil Vapor	New York State Department of Heath Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.	No soil vapor samples collected during this period.

The cleanup goal for the remedy is to restore the Site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the Site through the proper application of scientific and engineering principles. The criteria for Site closure will be determined by the NYSDEC based on the future monitoring data.

Remedy Performance, Effectiveness, and Protectiveness

Groundwater Extraction and Treatment System Performance, Effectiveness and Protectiveness

The GWE&TS treated and discharged 14,591,304 gallons from January 1, 2014 through December 31, 2014. The system was not operational for approximately 6 months of the period due to electrical damage to the system. During the winter months, snow and ice on the roof collapsed the gutter system which pulled the service drop from the building. When this occurred, many of the treatment electrical systems were damaged and required repairs. The average flow rate during the operational periods was approximately 58.4 GPM. The system has treated a total of 320,649,371 gallons since startup in November 2001 through December 31, 2014.

Currently EPA-EXT-02 is the only extraction well pumping at the Site; it is located at the corner of Cutter Mill Road and Ascot Road (Figure 2). Four other extraction wells still exist onsite (EPA-EXT-01, EPA-EXT-03, EPA-EXT-04R, and ST-IW-01), however they are not operational and are considered part of the on-going groundwater monitoring network.

Figure 3 is a graph of the PCE detected in the influent samples collected during this period. The system appears to be gradually decreasing the amount of PCE in the groundwater. The concentration of PCE ranged from 9.6 μ g/l to <1 μ g/l over the reporting period. During the reporting period, the initial influent concentration was 9.6 μ g/l during January 2014; however, the GWE&TS was not functioning over a period of approximately 6 months. On restart of the system during August 2014, influent PCE concentrations had rebounded to 21 μ g/l. PCE concentrations subsequently showed a rapidly decreasing trend from 21 μ g/l to <1 μ g/l between August 2014 and December 2014.

The system appears to be performing its function and is protective of human health by decreasing the concentration of PCE in the groundwater on and off site. The table below shows the approximate cumulative mass of PCE removed by the system based on average pumping rate data and influent concentrations. The average flow rate is multiplied by the number of days and the cVOC concentration (from monthly O&M samples) in order to obtain the mass of cVOC which is removed each month. The cumulative total is tracked in the rightmost column, during 2014 less than a pound of cVOCs were recovered due to the significant downtime experienced.

Influent Volume		CVOC Concentration in Influent	Monthly CVOC Mass	Cumulative Mass Removed	
Date	Date Days		Monthly Reading (GPM)		PCE (Ib)
1-Jan-14 31 61.31		9.6 0.22		2.45	
1-Feb-14 28 61.9		0	0.00	2.45	
1-Mar-14 31 0		0	0.00	2.45	
1-Apr-14 30 0		0	0.00	2.45	
1-May-14 31 0		0	0.00	2.45	
1-Jun-14	1-Jun-14 30 0		0	0.00	2.45
1-Jul-14 31 0		0	0.00	2.45	
1-Aug-14 31 59.89		21	0.47	2.92	
1-Sep-14 30 59.94		12	0.26	3.18	
1-Oct-14	31	60.34	0	0.00	3.18
1-Nov-14	30	60.64	8	0.17	3.35
1-Dec-14 31 46.19		0	0.00	3.35	

Note: The zero measurements from February to July are due to system non-operation related to electrical damage sustained during the winter months.

Soil Vapor Extraction System Performance, Effectiveness, and Protectiveness.

Air monitoring of the AS/SVE is performed on a monthly basis when the system is running. It includes monitoring for VOCs, carbon monoxide, oxygen, lower explosive limit (LEL), hydrogen sulfide, air velocity in cubic feet per minute (CFM), temperature, relative humidity, dew point, and vacuum pressure as specified in the O&M Manual. Air monitoring is performed at the following locations:

- Combined SVE influent (pre-treatment);
- Post vapor phase carbon vessel SVE air discharge, effluent (post treatment);
- SVE wells EPA-SVE-1 through EPA-SVE-3.

Figure 4 provides a summary of the estimated mass recovery of the SVE system during the period beginning January 2014 and ending December, 31 2014 based on VOC concentrations measured using a photoionization detector (PID). The calculation assumes that PCE is the bulk of the VOC detected in PID readings obtained at the Site. This assumption is justified in that over 98% of the contaminant detected in influent SVE samples is PCE. This system operated in

January, and during the period from September through December of this year. The system was not operable from February 2014 through August 2014 due to water damage to electrical system and main feed box.

The system has removed approximately 16 lbs. of cVOCs during the reporting period. The system, when operational, appears to be performing its function effectively and is protective of human health by decreasing the concentration of PCE in the soil and soil vapor. The mass removal associated with the SVE system is significantly more than was removed by the GWE&TS, which is another possible indicator that residual contamination remains in the vadose zone or the immediate vicinity of the water table.

IC/EC Plan Compliance Report

IC/EC Requirements and Compliance

The institutional controls required for this site includes a groundwater use restriction to insure that exposure to potentially contaminated groundwater is avoided. Although a specific deed restriction or easement regarding groundwater use is not in place for this site the local regulations and municipal code prohibit drilling, digging, or tapping into the local aquifer without having first obtained a permit. The USEPA has determined that this is an adequate groundwater use restriction and no further ICs are necessary to safeguard public health.

The engineering controls at the site include the following:

- Groundwater extraction and treatment system- This system captures and treats the most contaminated groundwater associated at the Site. The groundwater concentrations have been significantly reduced by its continued operation.
- Vapor mitigation- Soil vapor is being mitigated onsite via the SVE.
- AS/SVE- The AS system installed in 2012 serves to reduce the groundwater concentrations in the immediate vicinity of the well while the SVE captures and treats contaminated soil vapor onsite. The soil vapor concentrations have been substantially reduced.

IC/EC Certification

The NYSDEC approved IC/EC certification form certified by a New York State licensed professional engineer is being submitted along with this report.

MONITORING PLAN COMPLIANCE REPORT

Components of the Monitoring Plan

The following table summarizes the components of the monitoring plan.

Monitoring Plan					
Frequency	Groundwater	Soil Vapor			
Monthly	GWE&TS influent and effluent is sampled and tested for VOCs A network of 16 wells are monitored for water level	SVE influent is monitored using a PID at multiple SVE Monitoring Ports located on the system			
Quarterly	None – see monthly monitoring	SVE influent and effluent are sampled and tested for VOCs			
Semi-Annually	Fifteen wells in the monitoring well network are sampled and tested for VOCs	Neighboring property Long Island Hebrew Academy (LIHA) is sampled and tested, as directed, for contaminants in indoor air via Compendium Method TO-15			
Annually	The system discharge point into the city sewer is sampled and tested for compliance with SPDES Equivalency Parameters	None			

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Monitoring Completed During Reporting Period

The following table shows actual sampling completed at the Site between January 2014 and December 2014.

Monitoring Completed during January 2014-December 2014 period								
	GW Influent	GW Effluent	SVE Influent	SVE Effluent	Water Level Gauge	Process Air Stream Monitor	SVI Sampling	MW Sampling
January	Х	Х			Х	Х		
February					Х			
March								
April			Х	Х	Х	Х		
May					Х	Х	Х	Х
June								
July								
August	Х	Х	Х	Х	Х	Х		
September	Х	Х			Х	Х		
October	Х	Х			Х	Х		
November	Х	Х	Х	Х	Х	Х		
December	Х	Х			Х	Х		Х

Comparison with Remedial Objectives:

Groundwater

PCE is detected in the influent groundwater samples taken at the Site, detection values range from <1 μ g/l to 21 μ g/l. Four out of the five monthly samples collected during the reporting period exceed the standard of 5 μ g/l. Figure 3 shows the concentration of PCE in influent samples between January 2014 and December 2014. Overall the concentration is shown to be decreasing toward the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. The remedial objective is to treat the groundwater and remove contaminants to below the water quality standard.

PCE is detected above the standard in groundwater samples collected in two of the monitoring wells located west of the site (ST-MW-15 and ST-MW-19). Values range from 62 μ g/l to 34 μ g/l in these two wells, respectively. Five other wells (MW-16, MW-23, CL-4D, CL-4S, and MW-20) sampled during two semi-annual sampling events also had detection of PCE, but the detections were reported below the 5 μ g/l standard, with values ranging from 1 to 2 μ g/l.

Soil

No soil samples were collected during this period. Clean up objectives at the site would be to ensure that soil contamination is at or below Environmental Conservation Law (ECL) 6 NYCRR Part 375-6: Remedial Program Soil Cleanup Objectives. Confirmatory soil sampling would be required once the active remedial measures are deemed complete.

Vapor

Influent to the SVE system is screened during each monthly visit using a handheld PID which measures VOC concentrations in parts per million (ppm). These readings are used under the assumption that the bulk of VOCs entering the system is PCE (this assumption is supported by analytical data) and these readings are tracked on Figure 4 along with the mass recovery of the SVE system.

Quarterly influent and effluent samples are collected from the SVE system and analyzed using USEPA TO-15. Samples collected this year have varying concentrations of PCE ranging from 2,576 µg/m³ when the groundwater treatment system was fully operational to over 139,014 ug/m³ (SVE Influent 5/1/2014)when the system was not running. More data is required in order to determine if these numbers will stabilize when the system is operational over a long period of time. The exact mechanisms in the subsurface that would result in mobilization of the contamination to the vapor phase while the GWE&TS is not operating are not known at this time. It is possible that the contamination is isolated in a particular area or perhaps sorbed and immobile while the system is in long term operation. Only after the system is shutdown does the contamination become mobile to the vapor phase. It does appear that the SVE system is working to eliminate the threat of soil vapor on and off site.

The New York State Department of Health Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York does not offer specific standard concentrations for evaluating indoor air impacts associated with vapor intrusion. The sampling (May 21, 2014) showed that the site-related contaminant PCE was detected in the air of the LIHA building at concentrations of 4.68 $\mu g/m^3$ and 5.83 $\mu g/m^3$ (duplicate canister) while the SVE system was non-operational. The 2013 sampling did not detect PCE in the in-door air and NYSDOH guidance for the levels measured in 2014 indicate that the SVE system must continue in operation to reduce the possibility of exposure.

Monitoring Deficiencies

During the review and certification period associated with this report deficiencies in the Monitoring Program have been encountered. These deficiencies are largely associated with the fact that the system is likely reaching the end of its useful lifespan. These deficiencies did not have a significant impact on the systems ability to perform as designed or expected. A significant period (approximately 6 months) of system downtime was experienced during this reporting period due to storm damage over the winter. During this certification period a number of the system components were either repaired or replaced and the systems run time performance has currently improved. During the times where the system was down some monitoring activities could not be performed.

The first quarter quarterly SVE influent and effluent samples were not collected in 2014 because the system unexpected went down in March due to electrical damage.

The GWE&T system was not operational from February through July 2014. No groundwater influent and effluent samples were collected for March, April, May, June, and July.

Conclusions and Recommendations for Changes

The monitoring plan is effective and provides for an adequate amount of data collection to evaluate the system performance, no changes are recommended. Should the future in-door air sampling at the LIHA indicate that the SVE system is not eliminating that potential exposure route additional investigations maybe required to identify the source of the noted PCE in soil vapor.

The remedial effectiveness is adequate in controlling the remaining contamination on-site, some of the down gradient monitoring wells still exhibit elevated levels of PCE but the overall trend since 2011 has been toward decreasing concentrations. Recommend continuing operation of the remedial systems to prevent further offsite migration.

O&M PLAN COMPLIANCE REPORT

The on-going O&M program at the Stanton site includes the following:

- Monthly system checks of the GWE&TS, and the AS/SVE system;
- Semi-annual granular activated carbon (GAC) change out on GWE&TS and SVE systems (if necessary);
- Annual SPDES sampling event; and A Periodic Review Report will be issued annually.

During the review and certification period associated with this report, deficiencies in the O&M program have been encountered. These deficiencies are associated with the fact that the system is likely reaching the end of its useful lifespan. These deficiencies did not have a significant impact on the systems ability to perform as designed or expected. A significant period (approximately 6 months) of system downtime was experienced during this reporting period due to storm damage over the winter. Since the completion of maintenance repairs/replacements the systems run time performance has currently improved. During the times where the system was down certain O&M activities and system performance readings were not conducted as outlined in the O&M Plan.

CONCLUSIONS & RECOMMENDATIONS

Compliance with SMP

Based on the activities associated with the SMP the major elements of the plan were met during the reporting period. The engineering controls at the site include a groundwater treatment system and an AS/SVE system. These systems are designed to contain the off-site migration of

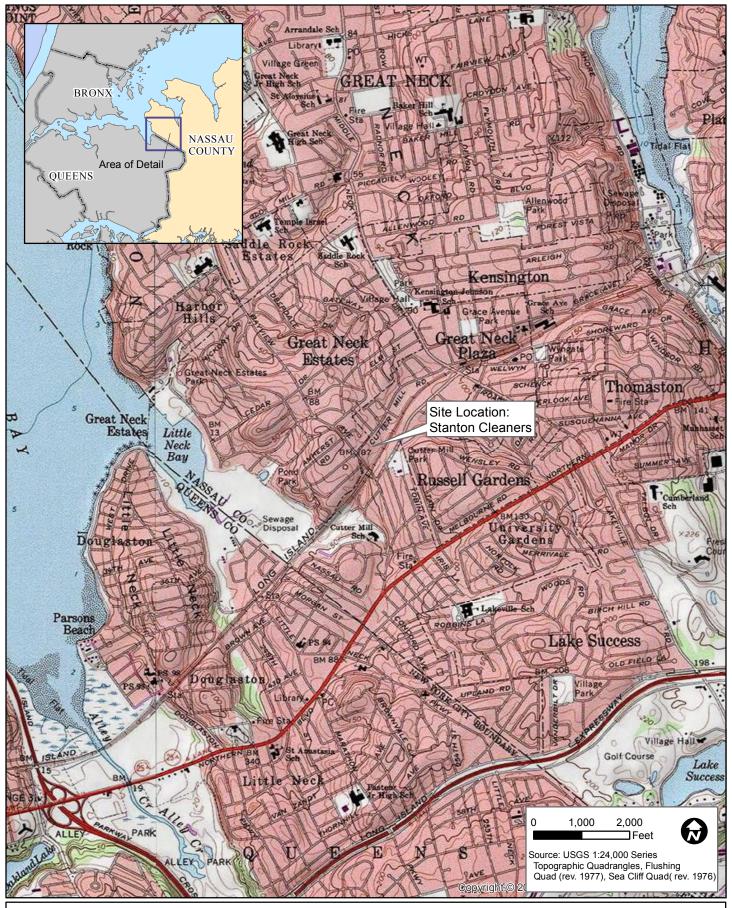
VOC-contaminated vapors and groundwater. The GWE&TS's primary responsibilities include the pumping and treatment of groundwater. The AS/SVE system's responsibilities include the treatment of high VOC source areas, the containment of off-site migration of contaminated soil vapors, and the extraction and treatment of the contaminants of concern contained in the soil vapor. When these systems are operational the contamination is contained to within the immediate vicinity of the Site.

Effectiveness of the Remedy

Data collected during the reporting period indicates that the remedy is effective for both remediating the source of the contamination and protecting human health by reducing the amount of contamination in the environment surrounding the site.

Future PRR Submittals

The next Periodic Review Report covering the reporting period from January 1, 2015 to December 31, 2015 will be submitted by January 30, 2016.



FD3

Site Location Stanton Cleaners NYSDEC Site # 130072 Great Neck-North Hempstead, New York

Figure 1

