

Quarterly Operation and Maintenance Report – 1Q2018

Stanton Cleaners

NYSDEC Site No: 130072

110 Cuttermill Road, Great Neck, New York

Work Assignment # D007625-06

February 3, 2020

Prepared for:

New York State Department of Environmental Conservation

625 Broadway

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Department of Environmental Conservation

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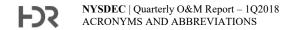
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ACRONYMS AND ABBREVIATIONS

AS Air Sparge

ASP Analytical Services Protocol

bgs below ground surface

CAP Contractor's Application for Payment

cfm cubic feet per minute
COC contaminant of concern

DUSR data usability summary report

DVS Data Validation Services
EC emerging contaminant

ECL Environmental Conservation Law

EFF effluent

GAC Granular Activated Carbon

gpm gallons per minute

GWE&T Groundwater Extraction and Treatment

GWQS Groundwater Quality Standard

HC Hampton Clarke

HDR Henningson, Durham & Richardson Architecture and Engineering, P.C.

INF influent

LIHA Long Island Hebrew Academy

lbs pounds

LEL lower explosive limit

LGAC liquid phase granular activated carbon

μg/L micrograms per liter

μg/m³ micrograms per cubic meter
MDL minimum detection limit

ND non-detect

ng/L nanograms per liter
NPL National Priorities List

NYCRR New York Codes of Rules and Regulations

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

O&M Operations and Maintenance

PCE tetrachloroethene

PES Preferred Environmental Services

PFC perfluorinated compounds PFOA perfuorooctanoic acid

PFOS perfluorooctane sulfonic acid PID photo-ionization detector

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ACRONYMS AND ABBREVIATIONS (CONT.)

PRR Periodic Review Report
RAO Remedial Action Objective

ROD Record of Decision

RSO Remedial System Optimization SCG Standards, Criteria, and Guidance

SCO Soil Cleanup Objective

SPDES State Pollutant Discharge Elimination System

SSDS sub-slab depressurization system

SVE Soil Vapor Extraction SVI Soil Vapor Intrusion

TA Test America

TCL Target Compound List

TICs Tentatively Identified Compounds

TOGS Technical and Operational Guidance Series

UGA Upper Glacial Aquifer

USEPA United States Environmental Protection Agency

USGS United States Geological Survey
UST Underground Storage Tank
VOC Volatile Organic Compounds

WA Work Assignment

WAGNN Water Authority of Great Neck North

1.0 INTRODUCTION

As part of on-going remediation system operations and maintenance (O&M) and monitoring at the Stanton Cleaners groundwater contamination site located in Great Neck, New York (NYSDEC Site#130072), the New York State Department of Environmental Conservation (NYSDEC) has assigned site management tasks to Henningson, Durham & Richardson Architecture and Engineering, P.C. (HDR) under Standby Engineering Contract D007625. The site is currently listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 4. This designation is for properly closed sites but requires continued management until remedial objectives are achieved. From 2001 to 2012, the United States Environmental Protection Agency (USEPA) oversaw the O&M and site management, with the NYSDEC resuming responsibility in 2012.

The on-going site management was assigned to HDR (D007625-06) in August 2012. This work assignment (WA) includes the following tasks:

- Task 1 Project Scoping
- Task 2 Site Management Plan
- Task 3 O&M
- Task 4 Monitoring and Reporting
- Task 5 Periodic Review
- Task 6 Remedial System Optimization (RSO)

This quarterly O&M Report (Task 4) summarizes the O&M and monitoring activities completed during the first quarter of 2018 (January through March 2018). This report provides a description of the work performed throughout the reporting period and includes all relevant data and performance monitoring documentation.

2.0 BACKGROUND

2.1 Site Location and Current Use

The site's physical address is 110 Cutter Mill Road in Great Neck, New York. The property is approximately ¼ acre in size and includes a vacant two-story building (formerly the Stanton Cleaners building), a one-story boiler/storage building, and the two-story groundwater extraction and treatment (GWE&T)/soil vapor extraction (SVE) system building. The site is bordered to the north and east by empty lots (former indoor tennis facility), to the south by a Sunoco gasoline fueling station and the Long Island Hebrew Academy (LIHA), and to the west by Cutter Mill Road. The surrounding area is largely urbanized and consists of various mixed uses with residential areas on side streets and commercial buildings along the main roadways. The entire area is serviced by public water and sewer with Water Authority of Great Neck North (WAGNN) as the primary water supplier. A United States Geological Survey (USGS) 7.5-minute map showing the site's location is provided on Figure 1.

As mentioned above, the Stanton Cleaners building is currently vacant. During a 2014 inspection, the NYSDEC verified that the facility terminated the use of a fourth generation tetrachloroethene (PCE) dry cleaning machine and surrendered their Air Facility Registration. In February 2017, the dry cleaning machinery was removed from the property and operations were moved to another location.

Three WAGNN public water supply wells are located approximately 1,000 feet west (downgradient) of the site. Two of these wells are approximately 145 feet deep and the third well is 434 feet deep. The two 145-foot deep wells, designated as PW-2A (N-12796) and PW-9 (N-4388), are screened within a deeper portion of the Upper Glacial Aquifer (UGA). The third 434-foot deep well, designated as PW-11, is within the Lloyd Aquifer and not believed to be impacted by the site. In October 2015, well PW-11 was taken out of service and replaced by well PW-11A in April 2017.

The WAGNN supply well treatment system is currently in operation and influent (INF) volatile organic compound (VOC) concentrations are treated to below federal and state drinking water standards. WAGNN analytical data provided to the NYSDEC indicates that PCE concentrations in raw water samples collected from PW-2A (down gradient of Stanton Cleaners site) periodically exceed its respective NYSDEC Groundwater Quality Standard (GWQS) of 5 micrograms per liter (µg/L).

2.1 Site Geology

Long Island's geology is composed of a sequence of unconsolidated glacial, lacustrine, deltaic, and marine deposits of clay, silt, and gravel that range in age from the Upper Cretaceous to Pleistocene epochs. These deposits overlay a Precambrian to Paleozoic crystalline bedrock. In Nassau County, where the site is located, the unconsolidated deposit thickness is approximately 500 feet.

Underlying the site, the UGA is subdivided into shallow, intermediate, and deep zones. For on-going site management, this naming convention is maintained such that all data collected is consistent with the *April*

2004 Final Hydrogeologic Investigation Report- Operable Unit 1 and Final Capture Zone Analysis Report. The shallow UGA consists of orange brown, poorly to well graded outwash sands and till of generally high permeability. The intermediate zone, at the water table's vicinity (depth between 50 to 60 feet below ground surface (bgs)), consists of a light grey to white fine grained micaceous silty sand and clay. The intermediate zone then transitions with depth into the North Shore confining unit, which separates the shallow-intermediate and deep zones. The confining unit consists of fine grained deposits and is described as light brown clay, light gray clayey silts, and silty clay. The finer grained materials are likely marine or post-glacial lake deposits which, in some areas of the site, overlie the deeper UGA. The deep UGA zone is generally a thin deposit of outwash sands and gravels that represent possible infilling of low lying areas during an interglacial stage.

Previous site investigations have shown that only the UGA has been impacted and groundwater PCE concentrations have declined significantly over time. The site groundwater levels are impacted by the pumping stress associated with the WAGNN pumping wells, with the most pronounced impacts in the UGA intermediate and deep zones.

2.2 Remedial History

Improper handling and disposal of spent dry cleaning solvents, including PCE, has resulted in hazardous substance releases at the site. As a result, PCE migrated from the underlying subsurface soils to surrounding indoor air and groundwater environments, producing significant threats to human health. Site remedial activities began in 1983 and are briefly summarized below.

- 1983 Approximately 20 cubic yards of PCE-contaminated soil was removed from behind the Stanton Cleaners property
- 1986 The NYSDEC funded construction of an air stripper treatment system for the WAGNN water supply wells.
- 1989 A GWE&T system was installed by the potentially responsible party (PRP). The system performed poorly and was abandoned shortly thereafter.
- 1993 The site was listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 2.
- 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 National Priorities List (NPL); a Record of Decision (ROD) was finalized. The site was formally added to the NPL in May 1999.
- 2001 The USEPA completed the installation of the dual GWE&T/SVE system on the property to address and contain the on-site contamination source. Additionally, the USEPA installed a sub-slab depressurization system (SSDS) on the LIHA.



- 2002 Two 250-gallon PCE and one 500-gallon oil underground storage tanks (UST) were removed.
- 2008 The USEPA conducted the first five-year site review. The review concluded that the remedy was in place and functioning as intended and did not identify significant issues requiring attention.
- 2011 The site was reclassified from a Class 2 to a Class 4 Inactive Hazardous Waste site.
- 2012 The USEPA completed the installation of a groundwater air sparge (AS) system and began operations in March. Additionally, the USEPA removed the LIHA SSDS prior to the NYSDEC assuming O&M in November.
- 2013 The USEPA conducted the second five-year review in December.
- 2014 Due to an air compressor oil leak, the AS system was shut down. The AS component
 of the groundwater system was removed from service such that the remaining remedial system
 consists of GWE&T and SVE. In February, snow and ice on the roof collapsed the gutter
 system, pulling the electrical service drop from the building. As a result, extensive downtime
 occurred due the electrical system damage and subsequent repairs.
- 2015 In July, USEPA representatives met with NYSDEC representatives to review remedial action objective (RAO) progress and discuss site management program plans.
- 2016 Significant downtime to the SVE system (approximately 10 months) occurred due to needed repairs for the blower. Repairs were delayed for administrative reasons during the Amendment 1 approval process.
- 2017 The NYSDEC completed an RSO investigation from November 2016 through February 2017 to evaluate subsurface soil and the local aquifer in the vicinity of EPA-EXT-02. Additionally, the Stanton Cleaners building was vacated, with all associated equipment and operations removed from the site.

2.3 Site Cleanup Objectives

The site cleanup objective is, to the extent feasible, restore the impacted media to pre-disposal conditions. Closure criterion will be determined by the NYSDEC based on the future monitoring data. The Standards, Criteria, and Guidance (SCGs) currently used for the various sample media 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 on-going O&M program at the Stanton Cleaners site includes the following:

- Monthly operational checks of the GWE&T and SVE systems;
- Monthly water level monitoring;
- Monthly influent (INF)/effluent (EFF) sampling of the GWE&T system;
- Quarterly INF/EFF sampling of the SVE system; Annual, or as needed, granular activated carbon (GAC) change outs on the GWE&T and SVE systems; and
- Annual State Pollutant Discharge Elimination System (SPDES) sampling of the GWE&T system EFF.

This report is a summary of all first quarter 2018 activities (January through March). Daily reports summarizing the activities completed for that day are in Appendix A.

3.1 Groundwater Extraction and Treatment System Operations and Maintenance

Currently EPA-EXT-02, located at the corner of Cutter Mill and Ascot Roads, is the only operational extraction well. Four additional extraction wells (EPA-EXT-01, EPA-EXT-03, EPA-EXT-04R, and ST-IW-01) are not operational and were formerly included in the groundwater monitoring well network. The locations of the five extractions wells are shown on Figure 2.

A summary of the first quarter 2018 GWE&T system mass removed, including average monthly flow rate, total and cumulative flow, PCE influent concentration and mass removal rate is provided in Table 1. Performance monitoring logs including the monthly O&M reports and Lookout® operational data is provided in Appendices B and C, respectively.

From January 1 through March 31, 2018 the GWE&T system treated and discharged a total of 7,501,457 gallons with an average flow rate of 59.7 gallons per minute (gpm). Since initial startup in November 2001, the GWE&T system has treated an approximate total of 402,835,521 gallons. Monthly flow rates and cumulative discharge amounts are calculated utilizing the continuous four-hour data logging software, Lookout®, located on the site computer and accessed remotely.

As a result of first quarter 2018 operations, approximately 0.38 pounds (lbs) of PCE have been removed in the liquid phase, totaling 8.01 lbs since the NYSDEC assumed O&M in 2013. To calculate monthly PCE mass removed, the average flow rate is multiplied by the number of operational days and the PCE concentration (from monthly O&M samples).

3.1.1 Groundwater Extraction and Treatment System Influent/Effluent Sampling

Sampling of the GWE&T system INF and EFF is performed monthly to monitor plant efficiency and determine whether liquid GAC (LGAC) breakthrough has occurred. All collected samples are submitted to Hampton Clarke Analytical and Field Services of Fairfield, New Jersey (HC) for the analysis of target compound list (TCL) VOCs and tentatively identified compounds (TICs) by USEPA Method 624. As a result of the laboratory analysis, PCE was detected in each of the three monthly INF samples and ranged in concentration from 4.7 (March) to 8.2 micrograms per liter (μ g/L) (January). Detected PCE concentrations in the three monthly INF samples exceeded the NYSDEC GWQS of 5 μ g/L in January and February. No VOCs were detected in any monthly EFF sample collected for analysis. A summary of the first quarter 2018 GWE&T system INF/EFF analytical results is provided in Table 2. A graph showing the GWE&T system influent PCE concentrations from 2003 through the first quarter of 2018 is provided on Figure 3.

3.1.2 Groundwater Extraction and Treatment System Annual SPDES Sampling

Sampling of the GWE&T system EFF is performed annually to verify that discharge parameters do not exceed the SPDES permit equivalency. During this quarter, a sample was not collected from the effluent port.

3.2 Soil Vapor Extraction System Operations and Maintenance

Air monitoring of the SVE system is performed on a monthly basis. In accordance with the 2012 O&M Manual, monthly SVE system performance monitoring includes the collection of the following parameters: 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. Air monitoring is performed at the following locations:

- SVE wells: EPA-SVE-1 (shallow), EPA-SVE-1 (medium), EPA-SVE-2 (shallow), EPA-SVE-3A, EPA-SVE-3B, and SS-A
- SVE-Influent, SVE-1 Combined, SVE-2 Combined: Sampling ports on SVE influent lines, prior to blower and vapor phase carbon
- Post-Blower Pre-Carbon: Prior to vapor phase carbon treatment, post blower
- Post-VGAC Post vapor phase treated effluent (quarterly <u>as needed</u> to evaluate carbon breakthrough)

As a result of the first quarter 2018 SVE system operations (January through March), approximately 3.9 lbs. of VOCs has been removed through the vapor phase. SVE mass removal rates are calculated utilizing total VOC measurements via a photo-ionization detector (PID). Since the start of operations in September 2003, the SVE system is estimated to have removed an approximately 2,034.7 lbs. of PCE. Graphs showing the cumulative PCE mass removed over the past year and since September 2003 can be found on Figures 4 and 5, respectively. Monthly performance monitoring logs including both the AS and SVE systems can be found in Appendices D and E, respectively.

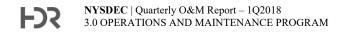


Figure 5 uses the PID measurements obtained during monitoring to estimate the mass recovery of the SVE system over the life of the system. When applicable, measurement of the SVE influent from a more robust source, such as sample collection via summa canister and laboratory analysis is used instead of a PID measurement. Calculation assumes that PCE is the bulk of the VOC detected in PID readings attained at the site.

Quarterly, 1-liter SUMMA canister influent and effluent samples are collected. During this quarter, samples were not collected by Preferred Environmental Services from the influent and effluent ports.

NYSDEC | Quarterly O&M Report – 1Q2018 4.0 MONITORING PROGRAM

4.0 MONITORING PROGRAM

The on-going Monitoring program at the Stanton Cleaners site includes the following:

- Quarterly O&M reports;
- Semi-annual groundwater sampling; and
- Semi-annual SVI sampling at the LIHA

4.1 Plume Perimeter Monitoring

Groundwater level measurements are obtained from both onsite and offsite wells once a month in order to evaluate capture zones(s) around groundwater extraction well EPA-EXT-02. The monitoring well network and well monitoring schedule are provided as Figures 6 and 7, respectively.

Water level measurements were collected during the January through March 2018 monthly O&M visits at 18 on and off-site monitoring wells. The location and number of monitoring wells was previously determined by the USEPA based on the 2014 *Final Capture Zone Analysis Report*. During the January 2018 monthly O&M visit, 16 monitoring wells were gauged, in February 2018, 17 wells were gauged and in March 2018, 15 wells were gauged; some wells were inaccessible during the site visits. Potentiometric surface maps for the shallow, intermediate, and deep UGA, based on the January 2018 values, can be found on Figures 8, 9, and 10, respectively. Groundwater level measurements for this quarter are provided in Appendix F.

The groundwater flow directions in the shallow and deep UGA resemble those measured previously for the site. In each of the contour maps, groundwater generally appears to flow to the southwest. A downward component of flow is also apparent when comparing the shallow, intermediate, and deep groundwater contours. A noticeable depression in the shallow water table (Figure 8) is centered around extraction well, EPA-EXT-02. The intermediate and deep UGA flow directions are to the southwest (Figures 9 and 10). During the February 2017 RSO aquifer test, it was found that the entire site falls within the capture zones of the public water supply wells, which strongly influence flow.

4.2 Groundwater Sampling

Routine semi-annual groundwater samples were not collected during this quarter. The next routine semi-annual groundwater sampling event is scheduled during the second quarter of 2018.

In January 2018, upon NYSDEC request, groundwater samples were collected from eight wells (EPA-EXT-02, EPA-MW-23, EPA-MW-26, ST-MW-15, ST-MW-16, ST-MW-18, ST-MW-19, and ST-MW-20) by HDR's subconsultant, Preferred Environmental Services of North Merrick, New York (PES) and submitted to the NYSDEC contract laboratory, TestAmerica of West Sacramento, California (TA) for the analysis of

perfluorinated compounds (PFCs) and 1,4-Dioxane by USEPA Methods modified 537 and 8270D SIM, respectively. Wells EPA-CL-4D and EPA-CL-4S were analyzed for 1,4-Dioxane only. A summary of the emerging contaminant (EC) analytical results is provided on Table 3. Groundwater sampling parameter logs can be found in Appendix G. DVS' data usability summary report (DUSR) is provided in Appendix J.

Various PFCs, including perfluorooctanoic acid (PFOA) and/or perfluorooctane sulfonic acid (PFOS), were detected in all eight wells sampled and analyzed for PFCs. The summed concentration of PFOA and PFOS ranged in a total concentration from 1.2 nanograms per liter (ng/L) (ST-MW-15) to 88.6 ng/L (EPA-MW-26). In the sample collected from EPA-MW-26, the sum of PFOA and PFOS exceeded the EPA Health Advisory Lifetime guidance value of 70 ng/L. The NYSDEC guidance value of 10 ng/L for PFOA and/or PFOS was exceeded in five of the eight sampled wells.

1,4-Dioxane was detected in four of the 10 monitoring wells at concentrations ranging from 0.11 (EPA-EXT-02) to 2.5 μ g/L (EPA-MW-26). The USEPA guidance value of 0.35 ug/l was exceeded at EPA-MW-26.

4.3 Indoor Air Quality Sampling

On February 21, 2018, upon NYSDEC request, three indoor air samples (two basement level and one first level) and one outdoor air sample were collected from the LIHA building using 6-liter Summa® canisters, equipped with 24-hour flow controllers, and submitted to Chemtech of Mountainside, New Jersey (Chemtech) for the analysis of VOCs by USEPA Method TO-15. Laboratory deliverables were in accordance with NYSDEC Analytical Services Protocol (ASP) Category B and subjected to data validation by HDR's independent contract validator, Data Validation Services of North Creek, New York (DVS). A copy of the LIHA indoor air sampling questionnaire and DVS' data usability summary report (DUSR) are provided in Appendix H and I, respectively.

As indicated by the laboratory analytical results, site contaminants of concern (COCs) are below threshold action levels as described by the NYSDOH soil vapor/indoor air decision matrices A, B, and C (May 2017 amendment). The compound dichloromethane was detected in the LIHA-IA1 duplicate sample at a concentration of 18.8 micrograms per cubic meter (µg/m³), which exceeds its respective concentration range 3 threshold of 10 µg/m³ and greater. It should be noted that dichloromethane was not detected above its respective minimum detection limit (MDL) in any other sample, including its parent. Additionally, dichloromethane was not detected in any September 2017 SVI sample collected on the Stanton Cleaners property. This suggests that the compound is potentially a laboratory contaminant or representative of the use of chemicals within the LIHA building. A summary of the LIHA air sampling analytical results is provided on Table 4.



4.4 Water Authority of Great Neck North Public Supply Well Monitoring

On a periodic basis, WAGNN personnel collect raw and treated water samples from each of its public supply wells (PW-2A, PW-6, PW-9, and PW-11A) and submits for the analysis of various compounds, including site specific chlorinated VOCs. It should be noted that PW-11 was permanently removed from service on October 19, 2016 and abandoned in March 2017. A new location, PW-11A, was installed during that time and began operation in April 2017.

In the analytical data provided by WAGNN for this quarter, the highest PCE concentration in any pretreatment sample occurred on January 10, 2018 in PW-2A at a concentration of 8.1 µg/L. All post-treatment samples were non-detect (ND) for PCE. A graph showing the contaminants of concern (COCs) concentrations in the WAGNN wells over time can be found on Figure 11.

5.0 MAINTENANCE ISSUES AND RECOMMENDED SOLUTIONS

Based on the site visits and data collected during this period, HDR has not identified any new maintenance issues.

5.1 Downtime Summary

During this quarterly monitoring period, most system components were found to be operational. One instance of SVE operational downtime was encountered during the February 22, 2018 O&M event. Upon arriving on-site, O&M personnel observed that the SVE blower was not active. The shutdown cause was not able to be determined and the SVE blower was restarted. The approximate downtime duration is unknown as the downloaded Lookout® data shows flow through the air flow meter during the entire month of February 2018. On March 1, 2018, Delta replaced the blower motor.

6.0 FUTURE ACTIVITIES

Upcoming maintenance and monitoring activities at the site includes the following:

- Routine monthly O&M activities will continue.
- Semi-annual groundwater sampling is scheduled to be completed during the second quarter of 2018.

7.0 PROGRESS TOWARD CLEANUP OBJECTIVES

As a result of ongoing GWE&T and SVE system operations during the first quarter of 2018, a total of 0.38 and 3.9 lbs. of VOCs have been removed in liquid and vapor phases, respectively. The total cost incurred in association with operation of these remedial system operations and subsequent site monitoring during this past quarter was \$80,134.24 (see quarterly cost summary below). During this quarter, the cost of both liquid and vapor phase VOC removal was \$18,722.95 per pound. Note that the cost per VOC pound removed is based on spending associated with WA D007625-06 Tasks 1 (Project Scoping), 2 (Site Management Plan), 3 (O&M), 4 (Monitoring and Reporting), and 5 (Periodic Review). Costs associated with Task 6 (RSO) are not included. Specific cost details can be found on HDR's Contractor's Application for Payments (CAPs) for this period.

Progress continues toward achieving the site cleanup objectives. An overall bulk reduction in the groundwater contaminant concentration has been achieved, but groundwater concentrations still exceed applicable goals. The SVE system continues to remove VOCs in the vapor phase, as determined by PID readings and flow measurements. Operation of the SVE system should continue until the cost per pound of VOC removed exceeds that which is determined efficient, or if asymptotic conditions have been reached.

	Quarterly Cost Summary											
PERIOD	COST (\$)	Total VOCS Measured at SVE (lbs.)	Total VOCs Measured at GWE&TS (lbs.)	Quarterly Sum (\$)	Total VOCs Removed (Ibs.)	Co	ost per Pound					
12/31/2017 - 2/3/2018	\$ 65,632.40											
2/4/2018 - 3/31/2018	\$ 14,501.84	3.9	0.38	\$ 80,134.24	4.3	\$	18,722.95					

Groundwater Extraction and Treatment System

PCE Mass Removal Summary - January through March 2018

Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

Quarter No.	Date	Average Monthly Flow Rate (GPM)		Cumulative Flow (gal)	INF PCE Concentration (µg/L)	PCE Mass Removal Rate (lbs/Month)	Cumulative PCE Mass Removed (lbs)
	January-18	57.32	2.536E+06	3.978E+08	8.2	0.17	7.80
1	February-18	59.60	2.237E+06	4.001E+08	5.3	0.10	7.90
1	March-18	62.14	2.729E+06	4.028E+08	4.7	0.11	8.01
					Quarter Total	0.38	NA
				Repo	rting Period Total	0.38	NA

Notes

GPM : gallons per minute gal/month : gallons per month

INF : Influent

 $\begin{array}{lll} PCE & : tetrachloroethene \\ \mu g/L & : micrograms per liter \\ lbs/month & : pounds per month \\ NA & : Not applicable \\ \end{array}$

Table 2 Groundwater Extraction and Treatment System Influent and Effluent Analytical Results - January through March 2018 Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

S	Sample Location:	INF-GW	EFF-GW	INF-GW	EFF-GW	INF-GW	EFF-GW
	Sample Date:	1/25/2018	1/25/2018	2/22/2018	2/22/2018	3/29/2018	3/29/2018
Analyte	GWQS (μg/L)			Results	s (μg/L)		
Total TICs	NS	ND	ND	25.0 J	25.0 J	ND	ND
1,1,1-Trichloroethane	5	ND (1.0)					
1,1,2,2-Tetrachloroethane	5	ND (1.0)					
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND (1.0)					
1,1,2-Trichloroethane	1	ND (1.0)					
1,1-Dichloroethane	5	ND (1.0)					
1,1-Dichloroethene	5	ND (1.0)					
1,2,3-Trichlorobenzene	5	ND (1.0)					
1,2,4-Trichlorobenzene	5	ND (1.0)					
1,2-Dibromo-3-chloropropane	0.04	ND (1.0)					
1,2-Dibromoethane	NS	ND (1.0)					
1,2-Dichlorobenzene	3	ND (1.0)					
1,2-Dichloroethane	0.6	ND (0.5)					
1,2-Dichloropropane	1	ND (1.0)					
1,3-Dichlorobenzene	3	ND (1.0)					
1,4-Dichlorobenzene	3	ND (1.0)					
1,4-Dioxane	NA	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)
2-Butanone	NS	ND (1.0)					
2-Hexanone	50*	ND (1.0)					
4-Methyl-2-pentanone	NS	ND (1.0)					
Acetone	50*	ND (5.0)					
Benzene	1	ND (0.5)					
Bromochloromethane	5	ND (1.0)					
Bromodichloromethane	50*	ND (1.0)					
Bromoform	50*	ND (1.0)					
Bromomethane	5	ND (1.0)					
Carbon disulfide	60*	ND (1.0)					
Carbon tetrachloride	5	ND (1.0)					
Chlorobenzene	5	ND (1.0)					
Chloroethane	5	ND (1.0)					
Chloroform	7	ND (1.0)					
Chloromethane	5	ND (1.0)					
cis-1,2-Dichloroethene	5	ND (1.0)					
cis-1,3-Dichloropropene	0.4	ND (1.0)					
Cyclohexane	NS	ND (1.0)					
Dibromochloromethane	50*	ND (1.0)					
Dichlorodifluoromethane	5	ND (1.0)					
Ethylbenzene	5	ND (1.0)					
Isopropylbenzene	5	ND (1.0)					
m&p-Xylenes	5	ND (1.0)					
Methyl Acetate	NS	ND (1.0)					
Methylcyclohexane	NS	ND (1.0)					
Methylene chloride	5	ND (1.0)					
Methyl-t-butyl ether	10*	ND (0.5)					

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NYSDEC Site No: 130072

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Standby Contract: D007625-06

Groundwater Extraction and Treatment System Influent and Effluent Analytical Results - January through March 2018 Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

S	Sample Location:	INF-GW	EFF-GW	INF-GW	EFF-GW	INF-GW	EFF-GW
	Sample Date:	1/25/2018	1/25/2018	2/22/2018	2/22/2018	3/29/2018	3/29/2018
Analyte	GWQS (µg/L)			Results	s (μg/L)		
o-Xylene	5	ND (1.0)					
Styrene	5	ND (1.0)					
Tetrachloroethene	5	8.2	ND (1.0)	5.3	ND (1.0)	4.7	ND (1.0)
Toluene	5	ND (1.0)					
trans-1,2-Dichloroethene	5	ND (1.0)					
trans-1,3-Dichloropropene	0.4	ND (1.0)					
Trichloroethene	5	ND (1.0)					
Trichlorofluoromethane	5	ND (1.0)					
Vinyl chloride	2	ND (1.0)					
Xylenes (Total)	5	ND (1.0)					

Notes:

GWQS : NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Table 1 - NYS Ambient

Water Quality Standards and Guidance Values (Class GA)

NYSDEC : New York State Department of Environmental Conservation

NS : No Standard NA : Not Applicable

ND (#) : Not Detected at the indicated laboratory run limit

TICs : Tentatively Identified Compounds

J : Estimated value

Bold: Detected concentration exceeds its respective GWQS

* : Denotes a guidance value

INF : Influent EFF : Effluent

 $\mu g/L$: micrograms per liter

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NYSDEC Site No: 130072

Standby Contract: D007625-06

Table 3 Emerging Contaminant Sampling of Monitoring Wells Stanton Cleaners - NYSDEC Site# 130072

110 Cuttermill Rd., Great Neck, NY

				Sample ID:	EPA-CL 01181 201801	8-	EPA-CL 01181 201801	8-	EPA-EXT-02 012218- 20180122		-EPA-MW-23 011918- 20180119		EPA-MW-26- 012218- 20180122		ST-MW 01221 201801	18-
			Samp	le Location:	CL-4	D	CL-4	S	EPA-EXT-02		EPA-M	W-23	EPA-MW-26		ST-MW	V-15
			S	ample Date:	1/18/20	018	1/18/20	018	1/22/2018		1/19/2018		1/22/2018		1/22/20	018
	CAS		USEPA	NYSDEC												
Analyte	Number	Units	Guidance	Guidance	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFCs																
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/l	NS	NS	NA		NA		18	U	20.1	U	198	U	17	U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	ng/l	NS	NS	NA		NA		18	U	20.1	U	198	U	17	U
Perfluorobutanesulfonic Acid	375-73-5	ng/l	NS	NS	NA		NA		2.81		2.98		4.3		0.57	J
Perfluorobutyric Acid (PFBA)	375-22-4	ng/l	NS	NS	NA		NA		5.99	В	9.32	В	14	В	1.98	U
Perfluorodecane Sulfonic Acid	335-77-3	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
Perfluorodecanoic Acid (PFDA)	335-76-2	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	0.32	J	1.7	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	ng/l	NS	NS	NA		NA		0.74	J	0.84	J	1.82	J	1.7	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	ng/l	NS	NS	NA		NA		6.61		7.67		18.8		0.52	J
Perfluorohexanesulfonic Acid	355-46-4	ng/l	NS	NS	NA		NA		6.8	В	9.58	В	25.8	В	1.7	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ng/l	NS	NS	NA		NA		9.15		13.1		28.8		0.6	J
Perfluorononanoic Acid	375-95-1	ng/l	NS	NS	NA		NA		2.22		9.13		8.7		1.7	U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/l	NS	NS	NA		NA		11.7		21.6		40.7		0.6	J
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
Perfluorotridcanoic Acid (PFTriA)	72629-94-8	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/l	NS	NS	NA		NA		1.8	U	2.01	U	1.98	U	1.7	U
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE	39108-34-4	ng/l	NS	NS	NA		NA		18	U	20.1	U	198	U	17	U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE	27619-97-2	ng/l	NS	NS	NA		NA		4.47	J	20.1	U	198	U	17	U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	ng/l	NS	10	NA		NA		15		25.5		64.2		1.7	U
Perfluorooctanoic acid (PFOA)	335-67-1	ng/l	NS	10	NA		NA		17		19.8		24.4		1.2	J
Sum of PFOA and PFOS		ng/l	70	NS	NA		NA		32		45.3		88.6		1.2	J
1,4-Dioxane																
1,4-Dioxane	123-91-1	ug/l	0.35	1	0.42	U	0.42	U	0.11	J	0.4	U	2.5		0.046	J

FDS

NYSDEC Site No: 130072 Standby Contract: D007625-06

Table 3 Emerging Contaminant Sampling of Monitoring Wells Stanton Cleaners - NYSDEC Site# 130072

110 Cuttermill Rd., Great Neck, NY

				Sample ID:	ST-MW 01191 20180	18- 119	DUPLIC 1-0119 201801	18- 119	ST-MW 01221 20180	.8- 122	ST-MW 01191 20180	8- 119	ST-MW 01221 201801	18- 122
			Samp	le Location:	ST-MV	ST-MW-16		ST-MW-16		V-18	ST-MW-19		ST-MW-20	
			S	ample Date:	1/19/2	018	1/19/2018		1/22/2018		1/19/2	018	1/22/20	
	CAS		USEPA	NYSDEC										
Analyte	Number	Units	Guidance	Guidance	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFCs														
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/l	NS	NS	20.2	U	19.6	U	198	U	20	U	170	U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	ng/l	NS	NS	20.2	U	19.6	U	198	U	20	U	170	U
Perfluorobutanesulfonic Acid	375-73-5	ng/l	NS	NS	4.52		4.23		0.65	J	2.56		2.44	
Perfluorobutyric Acid (PFBA)	375-22-4	ng/l	NS	NS	7.72	U	8.23	U	5.97	В	5.77	U	3.8	В
Perfluorodecane Sulfonic Acid	335-77-3	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
Perfluorodecanoic Acid (PFDA)	335-76-2	ng/l	NS	NS	2.02	U	1.96	U	0.37	J	2	U	1.7	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	ng/l	NS	NS	0.36	J	0.41	J	1.98	U	0.79	J	0.64	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	ng/l	NS	NS	7.43		8.01		0.8	J	7.51		3.53	
Perfluorohexanesulfonic Acid	355-46-4	ng/l	NS	NS	5.22	В	5.8	В	1.98	U	6.72	В	4.47	В
Perfluorohexanoic Acid (PFHxA)	307-24-4	ng/l	NS	NS	10.6		10.7		1.73	J	7.79		6.2	
Perfluorononanoic Acid	375-95-1	ng/l	NS	NS	2.51		2.84		0.43	J	3.86		1.7	U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/l	NS	NS	15		15.6		1.1	J	8.22		6.13	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
Perfluorotridcanoic Acid (PFTriA)	72629-94-8	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/l	NS	NS	2.02	U	1.96	U	1.98	U	2	U	1.7	U
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE	39108-34-4	ng/l	NS	NS	20.2	U	19.6	U	198	U	20	U	170	U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE	27619-97-2	ng/l	NS	NS	20.2	U	19.6	U	198	U	20	U	170	U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	ng/l	NS	10	21.4		21.9		1.12	J	20.8		1.07	J
Perfluorooctanoic acid (PFOA)	335-67-1	ng/l	NS	10	13.5		13.6		1.19	J	25.4		3.46	
Sum of PFOA and PFOS		ng/l	70	NS	34.9		35.5		2.31	J	46.2		4.53	
1,4-Dioxane														
1,4-Dioxane	123-91-1	ug/l	0.35	1	0.4	U	0.4	U	0.42	U	0.42	U	0.3	J

NYSDEC Site No: 130072 **FDS** Page 2 of 2 Standby Contract: D007625-06

Summary of LIHA Indoor Air Sampling Analytical Results Stanton Cleaners - NYSDEC Site# 130072

Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

				Sample ID	LIHA-I 201802		LIHA-I DUP-2018		LIHA-I. 201802			
			Sar	nple Location	LIHA-I		LIHA-I		LIHA-I	A2		
				Date	2/22/20		2/22/20		2/22/2018			
	CAS	NYSDOH	Decision Mat									
Analyte	Number		r Air Concen		Result	Q	Result	Q	Result	Q		
1,1,1-Trichloroethane (111-TCA)	71-55-6	<3	3 to <10	10 and above	0.16	U	0.16	U	0.16	U		
1,1,2,2-Tetrachloroethane	79-34-5	-	-	-	3.43	U	3.43	U	3.43	U		
1,1,2-Trichloroethane	79-00-5	_	-	-	2.73	U	2.73	U	2.73	U		
1,1-Dichloroethane	75-34-3	_	-	-	2.02	U	2.02	U	2.02	U		
1,1-Dichloroethene (11-DCE)	75-35-4	<0.2	0.2 to <1	1 and above	1.98	U	1.98	U	1.98	U		
1.2.4-Trichlorobenzene	120-82-1	_	_	_	3.71	U	3.71	U	3.71	U		
1,2,4-Trimethylbenzene	95-63-6	_	_	_	1.87	J	2.06	J	1.18	J		
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	_	_	_	3.84	U	3.84	U	3.84	U		
1.2-Dichlorobenzene	95-50-1	_	_	_	3.01	U	3.01	U	3.01	U		
1.2-Dichloroethane	107-06-2	-	_	_	2.02	U	2.02	U	2.02	U		
1,2-Dichloropropane	78-87-5	_	_	_	2.31	U	2.31	U	2.31	U		
1,2-Dichlorotetrafluoroethane	76-14-2	_	-	_	3.49	U	3.49	U	3.49	U		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	_	-	-	0.54	J	0.64	J	2.46	U		
1,3-Butadiene	106-99-0	_	_	_	1.11	U	1.11	U	1.11	U		
1.3-Dichlorobenzene	541-73-1	_	_	_	3.01	U	3.01	U	3.01	U		
1.4-Dichlorobenzene	106-46-7		_	_	3.01	U	3.01	U	3.01	U		
1,4-Dioxane	123-91-1	_	_	_	1.8	U	1.8	U	1.8	U		
2,2,4-Trimethylpentane	540-84-1		_	_	1.82	J	1.92	J	1.26	J		
2-Butanone (MEK)	78-93-3		-	-	1.82	J	2.95	J	1.89	J		
2-Chlorotoluene	95-49-8		-	-	2.59	U	2.59	U	2.59	U		
4-Ethyltoluene	ł				2.39	U	2.39	U	2.39	U		
	622-96-8	-	-	-	2.40	U	2.40	U				
4-Methyl-2-Pentanone Acetone	108-10-1	-	-	-					2.05	U		
	67-64-1	-	-	-	32.1	В	33.3	В	18.8	В		
Allyl Chloride (3-Chloropropene)	107-05-1	-	-	-	1.57	U	1.57	U	1.57	U		
Benzene	71-43-2	-	-	-	1.28	J	1.5	J	0.96	J		
Bromodichloromethane	75-27-4	-	-	-	3.35	U	3.35	U	3.35	U		
Bromoform	75-25-2	-	-	-	5.17	U	5.17	U	5.17	U		
Bromomethane	74-83-9	-	-	-	1.94	U	1.94	U	1.94	U		
Carbon Disulfide	75-15-0	-	-	-	1.56	U	1.56	U	1.56	U		
Carbon Tetrachloride	56-23-5	<0.2	0.2 to <1	1 and above	0.44		0.5		0.5			
Chlorobenzene	108-90-7	-	-	-	2.3	U	2.3	U	2.3	U		
Chlorodibromomethane	124-48-1	-	-	-	4.26	U	4.26	U	4.26	U		
Chloroethane	75-00-3	-	-	-	1.32	U	1.32	U	1.32	U		
Chloroform	67-66-3	-	-	-	0.93	J	0.73	J	0.68	J		
Chloromethane	74-87-3	-	-	-	1.38		1.34		7.02			
Cis-1,2-Dichloroethene (c12-DCE)	156-59-2	<0.2	0.2 to <1	1 and above	1.98	U	1.98	U	1.98	U		
Cis-1,3-Dichloropropene	10061-01-5	-	-	-	2.27	U	2.27	U	2.27	U		
Cyclohexane	110-82-7	-	-	-	1.58	J	3.79	J	0.96	J		
Dichlorodifluoromethane	75-71-8	-	-	-	3.31	J	1.88	J	1.63	J		
Dichloromethane	75-09-2	<3	3 to <10	10 and above	4.86	UJ	18.8	\boldsymbol{J}	1.74	U		
Ethylbenzene	100-41-4	-	-	-	1.13	J	2.13	J	1.09	J		
Freon 113	76-13-1	-	-	-	3.83	U	3.83	U	3.83	U		
Hexachlorobutadiene	87-68-3	-	-	-	5.33	U	5.33	U	5.33	U		
m,p-Xylene	179601-23-1	-	-	-	3.95	J	8.25		2.48	J		
Methyl Methacrylate	80-62-6	-	-	-	2.05	U	2.05	U	2.05	U		
Methyl T-Butyl Ether (MTBE)	1634-04-4	-	-	-	1.8	U	1.8	U	1.8	U		
Naphthalene	91-20-3	-	-	-	2.62	U	2.62	U	2.62	U		
N-Heptane	142-82-5	-	-	-	2.38		3.16		1.84	J		
N-Hexane	110-54-3	-	-	-	4.93	J	8.81	J	3.52			
O-Xylene	95-47-6	-	-	-	1.52	J	3.47		0.96	J		

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NYSDEC Site No: 130072
Standby Contract: D007625-06

Summary of LIHA Indoor Air Sampling Analytical Results

Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

		Sai	Sample ID mple Location Date	LIHA-I 201802 LIHA-I 2/22/20	22 A1	LIHA-L DUP-2018 LIHA-I 2/22/20	80222 A1	LIHA-IA2- 20180222 LIHA-IA2 2/22/2018		
	CAS	NYSDOH I				_				
Analyte	Number	Indoo	r Air Concen	tration	Result	Q	Result	Q	Result	Q
Styrene	100-42-5	-	-	-	1.7	J	2.98		0.72	J
Tert-Butyl Alcohol	75-65-0	-	-	-	8.19	J	3.94	J	1.52	UJ
Tetrachloroethene (PCE)	127-18-4	<3	3 to <10	10 and above	2.44		2.51		2.24	
Tetrahydrofuran	109-99-9	-	-	-	1.47	U	0.91	J	1.47	U
Toluene	108-88-3	-	-	-	7.54	J	14.7	J	7.91	
Trans-1,2-Dichloroethene	156-60-5	-	-	-	1.98	U	1.98	U	1.98	U
Trans-1,3-Dichloropropene	10061-02-6	-	-	-	2.27	U	2.27	U	2.27	U
Trichloroethylene (TCE)	79-01-6	< 0.2	0.2 to <1	1 and above	0.16	U	0.16		0.16	U
Trichlorofluoromethane	75-69-4	-	-	-	1.18	J	1.35	J	1.12	J
Vinyl Bromide	593-60-2	-	-	-	2.19	U	2.19	U	2.19	U
Vinyl Chloride	75-01-4	< 0.2	-	0.2 and above	0.08	U	0.08	U	0.08	U

Notes:

All sample results and NYSDOH guidance values are reported in µg/m3

All sample analytical results are compared to October 2006 and May 2017 NYSDOH Guidance

for Evaluating Soil Vapor Intrusion in the State of New York, Matrices A, B, and C

Outdoor air sample results from OA-1 are not compared to the NYSDOH Decision Matrices

μg/m3: : micrograms per cubic meter

NYSDOH: : New York State Department of Health

Q : Qualifier

J : indicates an estimated value

N : indicates presumptive evidence of the compound

B : Indicates the analyte was detected in the blank and the sample U : indicates the compound was not detected at the indicated MDL

MDL : minimum detection limit

Shaded : the result was not detected but the MDL exceeds at least one

concentration range of the decision matrix

Bold: the result was detected within concentration range 2 of the decision

matrix

Bold/Italic: the results exceeds concentration range 3 of the decision matrix

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NYSDEC Site No: 130072
Standby Contract: D007625-06

Summary of LIHA Indoor Air Sampling Analytical Results Stanton Cleaners - NYSDEC Site# 130072

tanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

		Sample ID Sample Location		LIHA-IA3- 20180222 LIHA-IA3		LIHA-OA1- 20180222		
						LIHA-C	A1	
				Date	2/22/20	18	2/22/20	18
	CAS	NYSDOH Decision Matrices A, B, C						
Analyte	Number		r Air Concen		Result	Q	Result	Q
1,1,1-Trichloroethane (111-TCA)	71-55-6	<3	3 to <10	10 and above	0.16	U	0.16	U
1,1,2,2-Tetrachloroethane	79-34-5	-	-	-	3.43	U	3.43	U
1,1,2-Trichloroethane	79-00-5	-	-	-	2.73	U	2.73	U
1,1-Dichloroethane	75-34-3	-	-	-	2.02	U	2.02	U
1,1-Dichloroethene (11-DCE)	75-35-4	<0.2	0.2 to <1	1 and above	1.98	U	1.98	U
1,2,4-Trichlorobenzene	120-82-1	-	_	-	3.71	U	3.71	U
1,2,4-Trimethylbenzene	95-63-6	-	_	-	1.47	J	2.46	U
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	_	_	_	3.84	U	3.84	U
1.2-Dichlorobenzene	95-50-1	_	_	-	3.01	U	3.01	U
1.2-Dichloroethane	107-06-2	_	-	_	2.02	U	2.02	U
1,2-Dichloropropane	78-87-5	-	_	_	2.31	U	2.31	U
1,2-Dichlorotetrafluoroethane	76-14-2	_	-	_	3.49	U	3.49	U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	_	_	_	2.46	U	2.46	U
1,3-Butadiene	106-99-0	_	_	_	1.11	U	1.11	U
1,3-Dichlorobenzene	541-73-1		-	-	3.01	U	3.01	U
1.4-Dichlorobenzene			-			-		
1,4-Dioxane	106-46-7			-	3.01	U U	3.01	U
	123-91-1	-	-	-	1.8		1.8	U
2,2,4-Trimethylpentane	540-84-1	-	-	-	1.21	J	1.35	J
2-Butanone (MEK)	78-93-3	-	-	-	2.39		1.5	
2-Chlorotoluene	95-49-8	-	-	-	2.59	U	2.59	U
4-Ethyltoluene	622-96-8	-	-	-	2.46	U	2.46	U
4-Methyl-2-Pentanone	108-10-1	-	-	-	2.05	U	2.05	U
Acetone	67-64-1	-	-	-	30.4	В	9.98	В
Allyl Chloride (3-Chloropropene)	107-05-1	-	-	-	1.57	U	1.57	U
Benzene	71-43-2	-	-	-	0.96	J	0.89	J
Bromodichloromethane	75-27-4	-	-	-	3.35	U	3.35	U
Bromoform	75-25-2	-	-	-	5.17	U	5.17	U
Bromomethane	74-83-9	-	-	-	1.94	U	1.94	U
Carbon Disulfide	75-15-0	-	-	-	1.56	U	1.56	U
Carbon Tetrachloride	56-23-5	< 0.2	0.2 to <1	1 and above	0.44		0.38	
Chlorobenzene	108-90-7	-	-	-	2.3	U	2.3	U
Chlorodibromomethane	124-48-1	-	-	-	4.26	U	4.26	U
Chloroethane	75-00-3	-	_	-	1.32	U	1.32	U
Chloroform	67-66-3	-	-	-	1.32	J	0.59	J
Chloromethane	74-87-3	-	-	-	1.47	-	2.27	-
Cis-1,2-Dichloroethene (c12-DCE)	156-59-2	<0.2	0.2 to <1	1 and above	1.98	U	1.98	U
Cis-1,3-Dichloropropene	10061-01-5	-	-	-	2.27	U	2.27	U
Cyclohexane	110-82-7	-	-	-	1.17	J	1	J
Dichlorodifluoromethane	75-71-8	-	_	_	1.68	J	1.63	J
Dichloromethane	75-71-8	<3	3 to <10	10 and above	3.82	U	1.74	U
Ethylbenzene Ethylbenzene	100-41-4	-	-	-	0.87	J	0.78	J
Freon 113	76-13-1		-	-	3.83	U	3.83	U
Hexachlorobutadiene	87-68-3	<u> </u>	-	-	5.33	U	5.33	U
m,p-Xylene	179601-23-1	-	-	-	2.87	J	2.52	J
Methyl Methacrylate	80-62-6	-	-	-	2.05	U	2.05	U
Methyl T-Butyl Ether (MTBE)	1634-04-4	-	-	-	1.8	U	1.8	U
Naphthalene	91-20-3	-	-	-	2.62	U	2.62	U
N-Heptane	142-82-5	-	-	-	1.68	J	1.11	J
N-Hexane	110-54-3	-	-	-	4.93	U	3.38	NJ
O-Xylene	95-47-6	-	-	-	1.09	J	1	J

Summary of LIHA Indoor Air Sampling Analytical Results

Stanton Cleaners - NYSDEC Site# 130072 110 Cuttermill Rd., Great Neck, NY

			Sai	Sample ID	LIHA-IA3- 20180222 LIHA-IA3		LIHA-OA1- 20180222 LIHA-OA1	
		Date		2/22/2018		2/22/2018		
Analyte	CAS Number	NYSDOH Decision Matrices A, B, C Indoor Air Concentration			Result	Q	Result	Q
Styrene	100-42-5	-	-	-	1.45	J	2.13	U
Tert-Butyl Alcohol	75-65-0	-	-	-	2.43	J	1.52	UJ
Tetrachloroethene (PCE)	127-18-4	<3	3 to <10	10 and above	2.24		8.14	
Tetrahydrofuran	109-99-9	-	-	-	1.47	U	1.47	U
Toluene	108-88-3	-	-	-	6.03		6.78	
Trans-1,2-Dichloroethene	156-60-5	-	-	-	1.98	U	1.98	U
Trans-1,3-Dichloropropene	10061-02-6	-	-	-	2.27	U	2.27	U
Trichloroethylene (TCE)	79-01-6	< 0.2	0.2 to <1	1 and above	0.16	U	0.16	U
Trichlorofluoromethane	75-69-4	-	-	-	1.29	J	1.29	J
Vinyl Bromide	593-60-2	-	-	-	2.19	U	2.19	U
Vinyl Chloride	75-01-4	< 0.2	-	0.2 and above	0.08	U	0.08	U

Notes:

All sample results and NYSDOH guidance values are reported in µg/m3

All sample analytical results are compared to October 2006 and May 2017 NYSDOH Guidance

for Evaluating Soil Vapor Intrusion in the State of New York, Matrices A, B, and C

Outdoor air sample results from OA-1 are not compared to the NYSDOH Decision Matrices

μg/m3: : micrograms per cubic meter

NYSDOH: : New York State Department of Health

Q : Qualifier

J : indicates an estimated value

N : indicates presumptive evidence of the compound

B : Indicates the analyte was detected in the blank and the sample U : indicates the compound was not detected at the indicated MDL

MDL : minimum detection limit

Shaded : the result was not detected but the MDL exceeds at least one

concentration range of the decision matrix

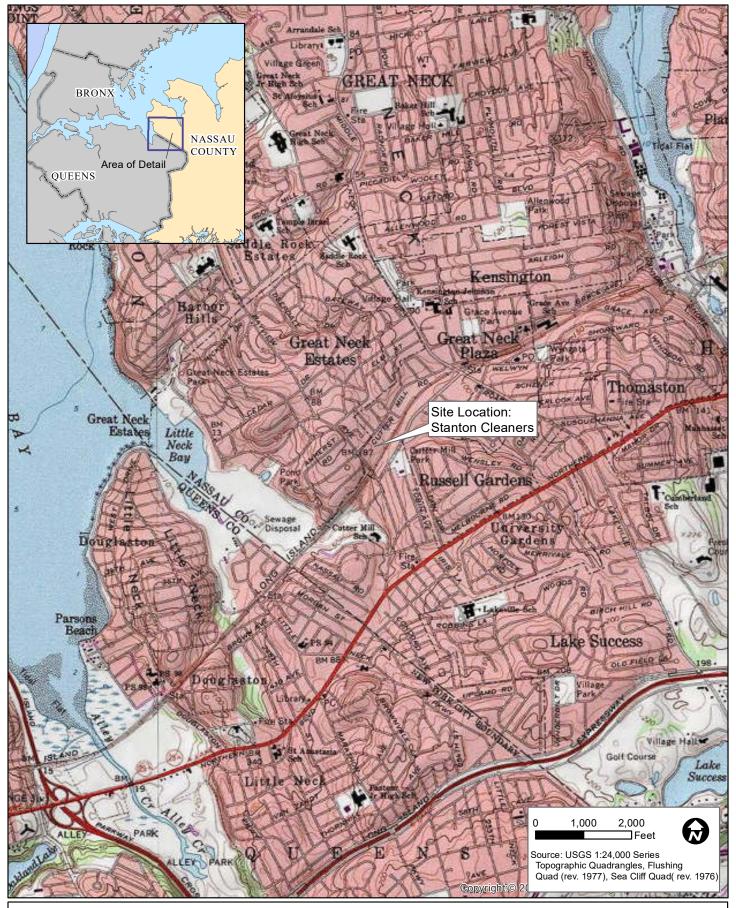
Bold: the result was detected within concentration range 2 of the decision

matrix

Bold/Italic: the results exceeds concentration range 3 of the decision matrix

Page 4 of 4

NYSDEC Site No: 130072
Standby Contract: D007625-06





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

Figure 1

March 30, 2018

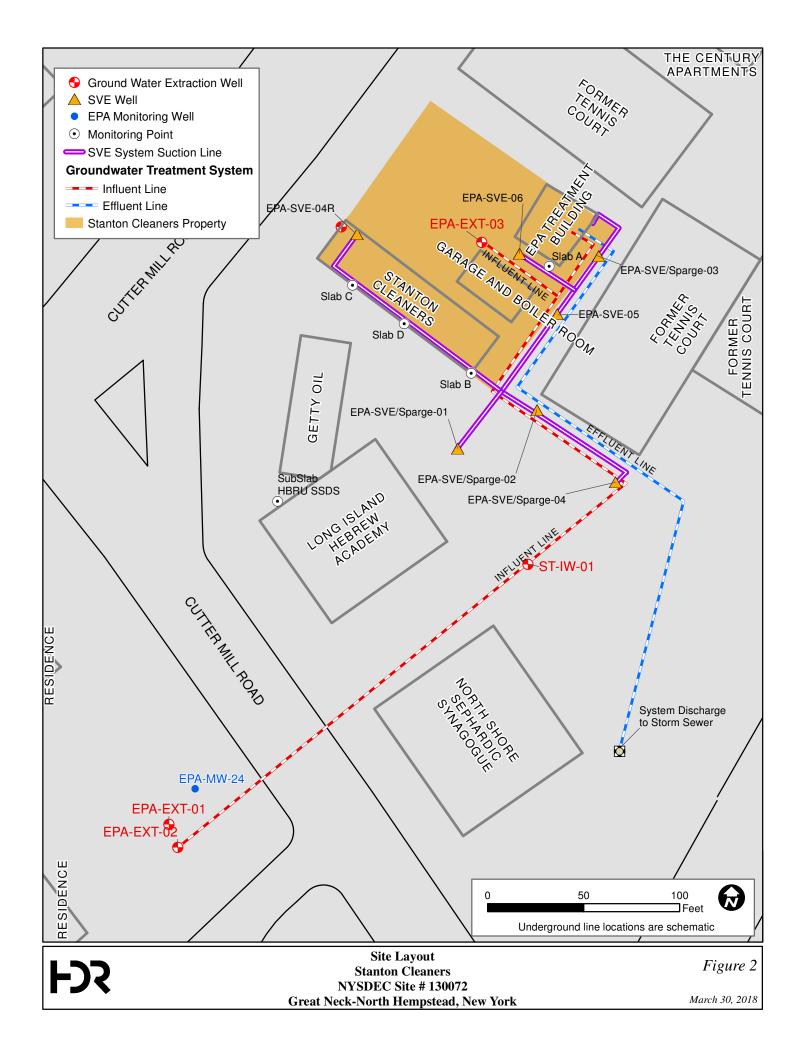
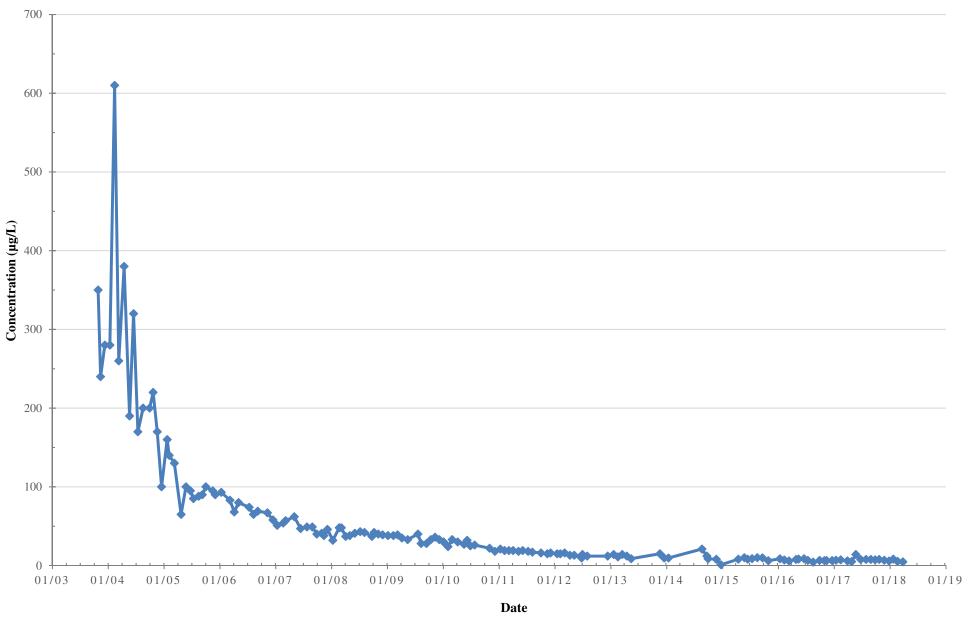


Figure 3
GWE&T System Influent PCE Concentrations - 2003-2018

Stanton Cleaners 110 Cuttermill Road, Great Neck, NY



NYSDEC Site No: 130072 Standby Contract: D007625-06

FDS

Figure 4
SVE System Annual Cumulative PCE Mass Removal

Stanton Cleaners 110 Cuttermill Road, Great Neck, NY

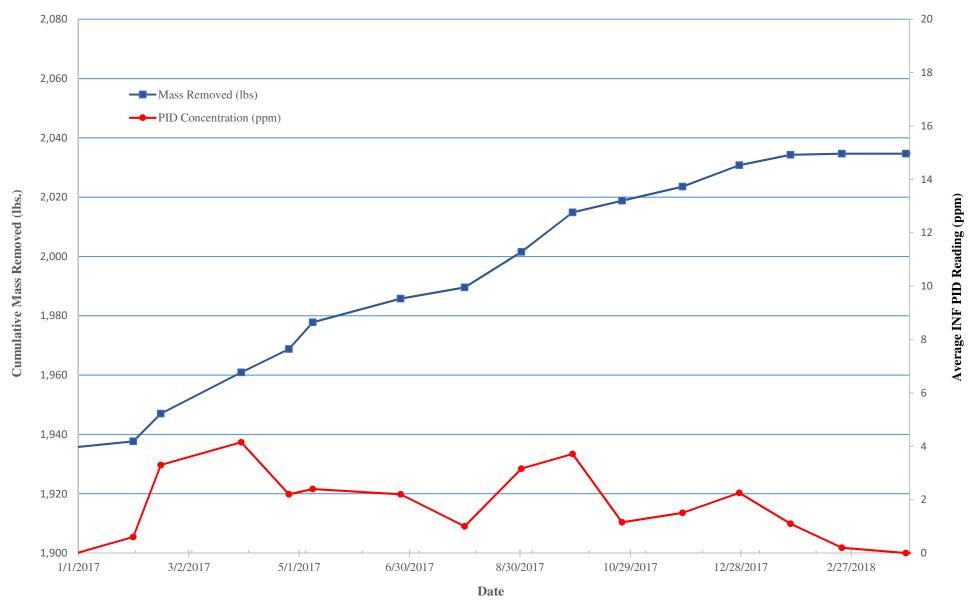
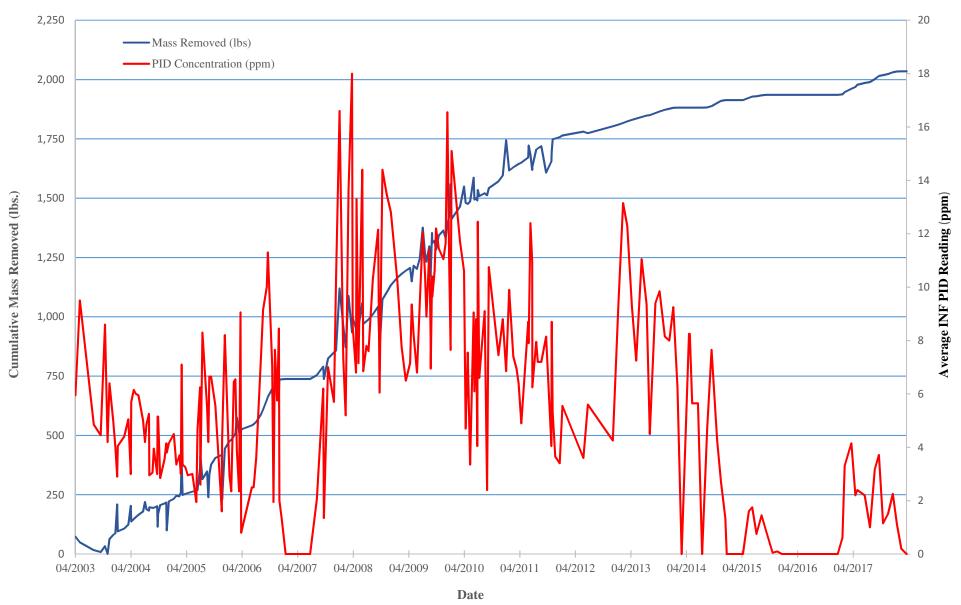


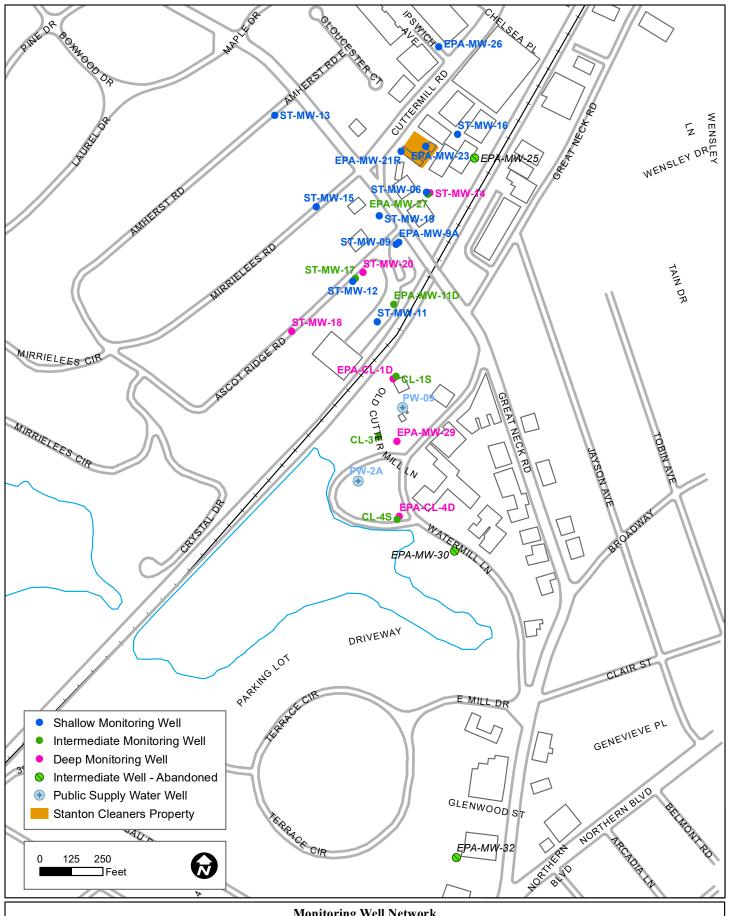


Figure 5
SVE System Cumulative PCE Mass Removal

Stanton Cleaners 110 Cuttermill Road, Great Neck, NY





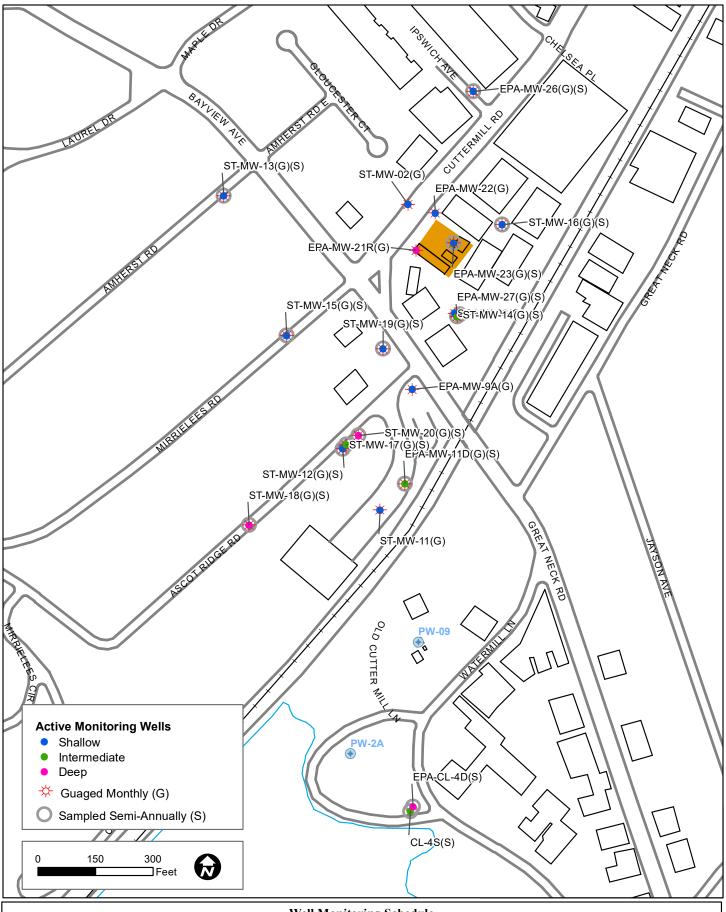


FDS

Monitoring Well Network Stanton Cleaners NYSDEC Site # 130072 Great Neck-North Hempstead, New York

Figure 6

March 30, 2018

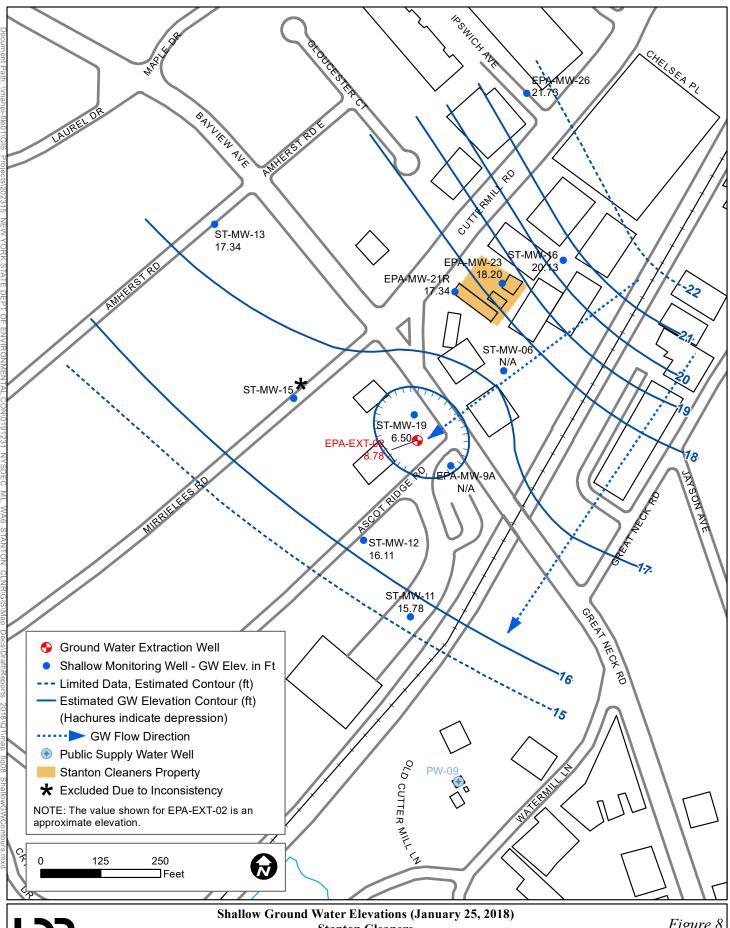


FDR

Well Monitoring Schedule Stanton Cleaners NYSDEC Site # 130072 Great Neck-North Hempstead, New York

Figure 7

March 30, 2018

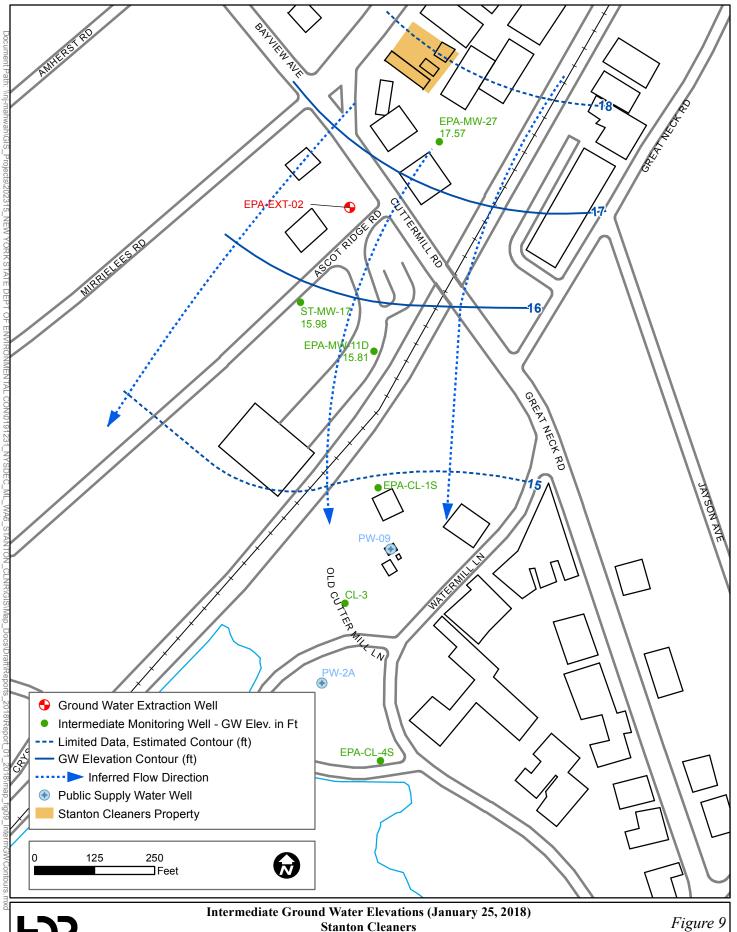




Stanton Cleaners NYSDEC Site # 130072 Great Neck-North Hempstead, New York

Figure 8

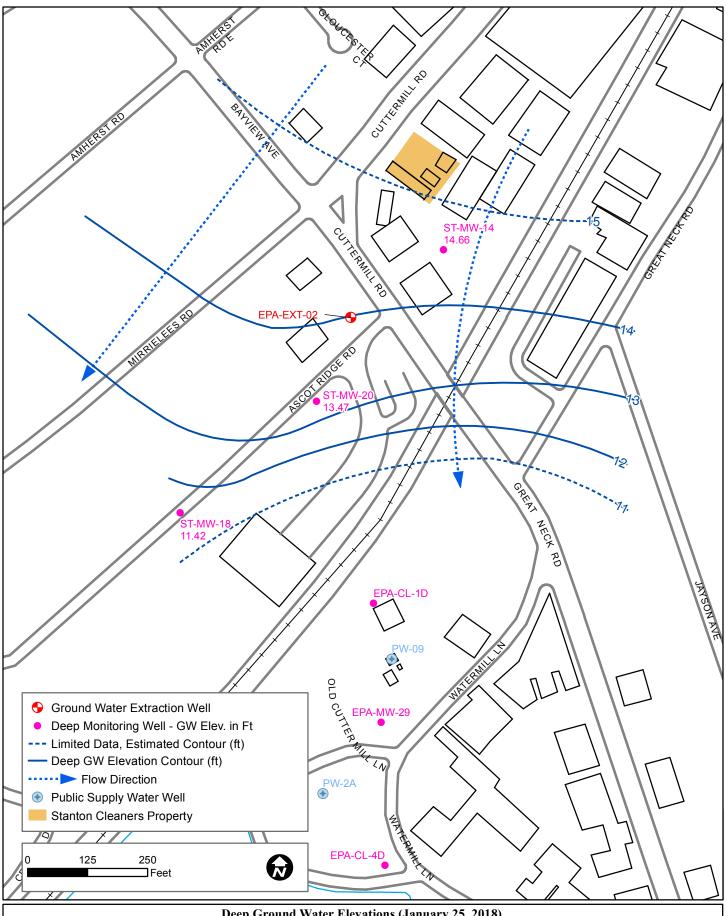
April 27, 2018



Stanton Cleaners NYSDEC Site # 130072

Great Neck-North Hempstead, New York

April 27, 2018



FDR

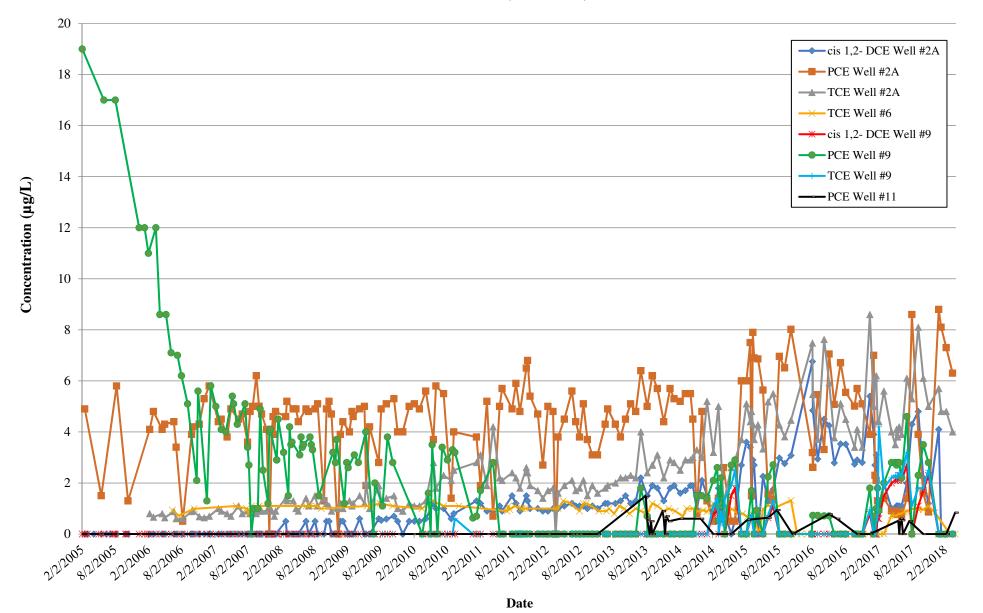
Deep Ground Water Elevations (January 25, 2018)
Stanton Cleaners
NYSDEC Site # 130072
Great Neck-North Hempstead, New York

Figure 10

April 27, 2018

Figure 11 Contaminants of Concern in WAGNN Wells

Stanton Cleaners 110 Cuttermill Road, Great Neck, NY





NYSDEC Site No: 130072 Standby Contract: D007625-06



Appendix A

Daily O&M Reports

	nton Cleaners - Site Management R and Preferred Environmental Services hael Lehtinen DAILY REPOR	RT					· A	HDR rate Woods Blvd lbany, NY 12211 e: 518.937.9500
Day: S	M T W TH F S	WEA		ight Part	•	Overcast	Rain	Clear
Date: 1/2	5/2018	TE	MP To	32-5	0	50-70	70-85	85 and up
REPORT No.		WI	I ND Li	ght Mode	ate	High		
PAGE No. 1		HUM	IIDITY [Ory Mode	ate	Humid		
		WINI	D DIR	NN NA	1	SE	SW	
PREPARED BY: Joh	n Zator TITLE: Site Rep.	WIN	D DIK	N S		E	W	
AVERAGE FIELD FORCE								
Name of Contractor	Title	Hours Worke	d			Rem	arks	
John Zator	Technician	8:00 - 13:30				Prefe	erred	
VISITORS								
Name	Time (From - To)	Representing	g		Remarks			
EQUIPMENT AT THE SITE	I = Idle V	W = Working						
1. Camera - W	3. Five Gas Meter - W		hraam Sami	oling Pump - W		1		
2. VelociCalc - TSI 8386 - W	4. 100-ft Solinst - W		ar Bag + Tul					
8:20 - Monthly O&M started. Collected	ative : John Zator - Preferred GWTS system on upon arrival. Air Sparge remair		o check for c	eracks and/or d	amag	e due to cold v	veather. N	lo damage noted.
10:06 - SVE system shut down.								
10:10 - Oil change performed on blow	er. 5.0 oz oil replaced.							
10:21 - Greased blower.								
10:23 - SVE system restarted.								
10:45 - 12:00 - Performed monitoring								
13:16 - Collected influent groundwater	•							
13:20 - Collected effluent groundwate	•							
13:30 - Preferred (JZ) off-site. Treatme	ent building secured.							
I								
	x - Designate	es report is continued on add	itional page	es				
HDR/Preferred Site Representa	lohn Zator (Professed)	Dv	niact Mana	ger: M. Lehtii	.on			
TIDIT/FIEIEIIEU SILE NEPIESEIILA	ive: John Zator (Preferred)	PIC	nject Maria	yer. w. Lentii	ien			

I

	anton Cleaners - Site Management IR and Preferred Environmental Services					À	HDR rate Woods Blvd lbany, NY 12211 ne: 518.937.9500
	DAILY REPO	<u>RT</u>					
Day: S	M T W TH F S	WEATHER	Bright	Partly	Overcast	Rain	Clear
Date: 2/2		TEMP	Sun To 32	Cloudy 32-50	50-70	70-85	85 and up
REPORT No.	2/2010	WIND	Light	Moderate	High	70-03	oo and up
PAGE No. 1		HUMIDITY	Dry	Moderate	Humid		
_		WIND DIR	NÉ	NW	SE	SW	
PREPARED BY: Joh	nn Zator TITLE: Site Rep.	WIND DIA	N	S	Е	W	
AVERAGE FIELD FORCE							
AVERAGE FIELD FORCE	Tialo	Harris Warleyd	Т		Daw		
Name of Contractor John Zator	Title Technician	Hours Worked 8:00 - 14:00				arks erred	
Som Zator	redimidati	0.00 14.00			1101	circa	
141017070							
VISITORS	T: (5 T)		-				
Name	Time (From - To)	Representing			Hem	arks	
EQUIPMENT AT THE SITE	I = Idle	W = Working	I				
1. Camera - W	3. Five Gas Meter - W	5. Diaphragm Sa					
2. VelociCalc - TSI 8386 - W	4. 100-ft Solinst - W	6. Tedlar Bag +	Tubing - '	N			
OPERATION & MAINTEN							
HDR/Preferred Site Represen							
	tem offline upon arrival, blower switched to "on" ox, but was unable to locate. After limited trouble						
8:20 - Monthly O&M started. Collected	d system readings.						
	eck on/collect indoor and outdoor air samples de	ployed the previous day.					
10:12 - Oil change performed on blow	ver. 5.0 oz oil replaced.						
10:25 - Greased blower. 10:46 - 12:41 - Performed monitoring	well gauging under task 4						
13:27 - Collected influent groundwate							
13:31 - Collected effluent groundwate							
14:00 - Preferred (JZ) off-site. Treatm	ent building secured.						
1							
•	x - Designa	tes report is continued on additional pa	ages				
		•	•				
HDR/Preferred Site Representa	tive: John Zator (Preferred)	Project Ma	ınager: <u>I</u>	M. Lehtinen			

	nton Cleaners - Site Management R and Preferred Environmental Services chael Lehtinen DAILY REP	ORT				· A	HDR rate Woods Blvd Ibany, NY 12211 e: 518.937.9500
Day: S	M T W TH F S	WEATHER	Bright Sun	Partly Cloudy	Overcast	Rain	Clear
Date: 3/29	9/2018	TEMP	To 32	32-50	50-70	70-85	85 and up
REPORT No.	3/2010	WIND	Light	Moderate	High	70-00	oo ana ap
PAGE No. 1		HUMIDITY	Dry	Moderate	Humid		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_	NE	NW	SE	SW	
PREPARED BY: Dar	niel Prisco-Buxbaum TITLE: Site Rep.	WIND DIR	N	S	E	W	
		_		_			
AVERAGE FIELD FORCE							
Name of Contractor	Title	Hours Worked			Rem	arks	
Daniel Prisco-Buxbaum	Technician	8:00 - 14:30				erred	
Edward Combs	Technician	8:00 - 14:30			Prefe	erred	
VISITORS							
Name	Time (From - To)	Representing			Pom	arks	
Ivaille	Time (From - 10)	Representing			ixeiii	ains	
EQUIPMENT AT THE SITE	I = Idle 3. Five Gas Meter - W	W = Working 5. Diaphragm S	ampling F	Pump - W			
2. VelociCalc - TSI 8386 - W	4. 100-ft Solinst - W	6. Tedlar Bag +					
8:00 - Preferred (DPB and EC) on site 8:15 - Monthly O&M started. Collected 9:05 - SVE Blower taken offline for rot. 9:15 - Oil change performed on blower 9:30 - Greased blower bearings. 9:40 - SVE Blower brought back online 9:45 - Collected instrument readings fr 10:25 - Collected influent groundwater 10:30 - Collected effluent groundwater 10:45 - 12:15 - Performed monitoring 12:15 - 13:00 - General Housekeeping 13:00 - 13:45 - Temporarily off-site to	ative: Daniel Prisco-Buxbaum - Preferred . SVE and GWTS system online upon arrival. system readings. tine maintenance. r. 6.0 oz oil replaced. e. rom SVE sample ports. r sample INF-GW-032918. r sample EFF-GW-032918. well gauging under task 4. g performed around treatment building. procure supplies necessary for minor system fluent GWTS piping utilizing epoxy putty (temp	Air Sparge remains offline. Identified active			Piping from loa	cation of p	orevious repair.
	x - Desig	gnates report is continued on additional p	ages				
HDR/Preferred Site Representation	tive: Daniel Prisco-Buxbau	m (Preferred) Project Ma	anager:	M. Lehtinen			

I

Appendix B

GWE&TS O&M Reports

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

Soil-Vapor Extraction and Pump and Treat System Monthly O&M Data Log

Date: 1/25/2018

Data from Computer Display Screen:

Pump	Flow	Valve open	
RW-2	61 GPM**	100%**	
Takal Ca		-	200670640**
	Illons Treated:		390670610**
Discharg	ge Rate:		0 GPM**
Discharg	ge Conductivity:		0**
Discharg	ge pH:		5.6**
SVE Air	Flow Rate:		169 CFM** (200 CFM at meter

^{**}Computer Monitor Not Functioning

Visual Digital Readouts from Catwalk:

Discharge pH:	5.28
Discharge Temp:	15ºC
Discharge Conductivity:	-1.6

Flow meter reading:

Flow Rate:		60 GPM					
Total gallons:	1,906,500	gallons	meter	display	/ in 10	00 of	gallons

Effluent flow meter reading:

Flow Rate:	2,550 GPH
Total gallons:	4,462,431.4

Weather:

24°F, Sunny, Dry, Northwest wind

- * Meter malfunctioning
- ** Computer screen not working. Unable to collect readings from the computer Digital reading output for Discharge Rate and Total gallons on flow meter GPM- Gallons Per Minute
 CFM- Cubic Feet Per Minute

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

Soil-Vapor Extraction and Pump and Treat System Monthly O&M Data Log

Date: 2/22/2018

Data from Computer Display Screen:

Pump	Flow	Valve open	
RW-2	61 GPM**	100%**	7
Total Ga	illons Treated:	-	
Discharg	ge Rate:		0 GPM**
Discharg	ge Conductivity:		0**
Discharg	де рН:		5.6**
SVE Air	Flow Rate:		169 CFM** (200 CFM at meter

^{**}Computer Monitor Not Functioning

Visual Digital Readouts from Catwalk:

Discharge pH:	4.88
Discharge Temp:	17ºC
Discharge Conductivity:	-1.5

Flow meter reading:

Flow Rate:		60 GPM			
Total gallons:	4,125,481	gallons	meter	display	in 100 of gallons

Effluent flow meter reading:

Flow Rate:	2,542 GPH
Total gallons:	557,009.6

Weather:

45°F, Rain, Humid, Northeast wind

- * Meter malfunctioning
- ** Computer screen not working. Unable to collect readings from the computer Digital reading output for Discharge Rate and Total gallons on flow meter GPM- Gallons Per Minute
 CFM- Cubic Feet Per Minute

STANTON CLEANERS AREA GROUNDWATER

CONTAMINATION SITE

Soil-Vapor Extraction and Pump and Treat System Monthly O&M Data Log

Date: 3/29/2018

Data from Computer Display Screen:

Pump	Flow	Valve open				
RW-2	60 GPM	100%				
Total Ga	illons Treated:		400,094,206	5		
Discharg	ge Rate:		0 GPM			
Discharg	ge Conductivity	:	0			
Discharg	ge pH:		5.6			
SVE Air	Flow Rate:		165 CFM	(200 CFM at meter		

Visual Digital Readouts from Catwalk:

Discharge pH:	5.10
Discharge Temp:	17ºC
Discharge Conductivity:	-1.5

Flow meter reading:

Flow Rate:	60 GPM			
Total gallons: 7,0	61,500 gallons	meter	display	in 100 of gallons

Effluent flow meter reading:

Flow Rate:	2,542 GPH
Total gallons:	8,393,427.8

Weather:

54ºF, Rain, Humid, West wind

- * Meter malfunctioning
- ** Computer screen not working. Unable to collect readings from the computer Digital reading output for Discharge Rate and Total gallons on flow meter **GPM- Gallons Per Minute** CFM- Cubic Feet Per Minute

Appendix C Lookout Operational Data Logs

Stanton Cleaners Groundwater Contamination Site			
	Site Operational I	Data - January 2018	
Time	EPA-EXT02	Total Flow	SVE Air Flow
	Flow (gpm)	(gal)	(cfm)
1/1/2018 0:00	60	395,305,831.3	201
1/1/2018 4:00	60	395,320,081.6	201
1/1/2018 8:00	60	395,334,359.0	197
1/1/2018 12:00	59	395,348,636.4	199
1/1/2018 16:00	60	395,362,905.0	197
1/1/2018 20:00	59	395,377,187.7	199
1/2/2018 0:00	60	395,391,436.8	201
1/2/2018 4:00	62	395,405,683.8	198
1/2/2018 8:00	61	395,419,951.3	199
1/2/2018 12:00	60	395,434,260.7	201
1/2/2018 16:00	62	395,448,628.7	202
1/2/2018 20:00	59	395,462,884.3	200
1/3/2018 0:00	60	395,477,108.4	203
1/3/2018 0:00	58	395,491,343.0	201
1/3/2018 4:00	59	395,505,633.8	155
1/3/2018 12:00	59	395,519,969.6	157
1/3/2018 16:00	62	395,534,351.7	156
1/3/2018 10:00	62		165
		395,548,938.8	167
1/4/2018 0:00	59	395,563,396.9	
1/4/2018 4:00	62	395,577,768.8	164
1/4/2018 8:00	60	395,592,137.6	162
1/4/2018 12:00	60	395,606,530.3	165
1/4/2018 16:00	61	395,621,009.3	165
1/4/2018 20:00	59	395,635,432.1	162
1/5/2018 0:00	60	395,649,785.0	155
1/5/2018 4:00	62	395,664,167.7	165
1/5/2018 8:00	60	395,678,669.4	164
1/5/2018 12:00	61	395,693,219.6	164
1/5/2018 16:00	60	395,707,776.3	157
1/5/2018 20:00	62	395,722,267.8	166
1/6/2018 0:00	59	395,736,643.4	166
1/6/2018 4:00	60	395,751,101.0	88
1/6/2018 8:00	59	395,765,667.1	156
1/6/2018 12:00	63	395,780,311.4	157
1/6/2018 16:00	61	395,795,084.8	168
1/6/2018 20:00	59	395,809,610.3	169
1/7/2018 0:00	58	395,823,968.3	168
1/7/2018 4:00	62	395,838,334.0	158
1/7/2018 8:00	61	395,852,703.3	159
1/7/2018 12:00	61	395,867,106.9	167
1/7/2018 12:00	61	395,881,501.2	167
1/7/2018 10:00	61	395,895,849.0	168
1/8/2018 0:00	58	395,910,173.1	168
	60		
1/8/2018 4:00		395,924,502.5	167
1/8/2018 8:00	59	395,938,832.1	168
1/8/2018 12:00	62	395,953,162.2	164
1/8/2018 16:00	59	395,967,513.1	165
1/8/2018 20:00	60	395,981,835.3	168
1/9/2018 0:00	61	395,996,134.3	166
1/9/2018 4:00	60	396,010,439.9	164
1/9/2018 8:00	62	396,024,770.9	168



Stanton Cleaners Groundwater Contamination Site			
	Site Operational I	Data - January 2018	
Time	EPA-EXT02	Total Flow	SVE Air Flow
Time	Flow (gpm)	(gal)	(cfm)
1/9/2018 12:00	62	396,039,230.5	166
1/9/2018 16:00	61	396,053,748.6	163
1/9/2018 20:00	61	396,068,120.7	168
1/10/2018 0:00	58	396,082,419.9	170
1/10/2018 4:00	58	396,096,725.0	174
1/10/2018 8:00	59	396,111,028.1	169
1/10/2018 12:00	60	396,125,339.2	169
1/10/2018 16:00	0	396,130,050.7	82
1/10/2018 20:00	0	396,130,050.7	164
1/11/2018 0:00	0	396,130,050.7	163
1/11/2018 4:00	0	396,130,050.7	167
1/11/2018 8:00	0	396,130,050.7	168
1/11/2018 12:00	0	396,130,050.7	167
1/11/2018 16:00	0	396,130,050.7	166
1/11/2018 20:00	61	396,137,798.8	162
1/12/2018 0:00	61	396,151,829.5	168
1/12/2018 4:00	57	396,165,911.5	167
1/12/2018 8:00	61	396,180,027.0	164
1/12/2018 12:00	59	396,194,164.3	165
1/12/2018 16:00	57	396,208,284.2	167
1/12/2018 20:00	60	396,222,457.4	167
1/13/2018 0:00	59	396,236,633.7	165
1/13/2018 4:00	61	396,250,830.7	168
1/13/2018 8:00	59	396,265,080.4	164
1/13/2018 12:00	58	396,279,392.1	168
1/13/2018 16:00	61	396,293,766.8	165
1/13/2018 20:00	58	396,308,113.2	167
1/14/2018 0:00	61	396,322,352.0	169
1/14/2018 4:00	58	396,336,567.4	164
1/14/2018 8:00	62	396,350,876.1	156
1/14/2018 12:00	58	396,365,146.6	163
1/14/2018 16:00	59	396,379,486.5	165
1/14/2018 20:00	58	396,393,768.9	168
1/15/2018 0:00	59	396,407,967.4	168
1/15/2018 4:00	58	396,422,151.5	167
1/15/2018 8:00	58	396,436,403.7	167
1/15/2018 12:00	58	396,450,657.2	166
1/15/2018 16:00	60	396,464,904.8	166
1/15/2018 10:00	60	396,479,156.3	167
1/16/2018 0:00	60	396,493,335.5	168
1/16/2018 4:00	59	396,507,560.9	167
1/16/2018 8:00	59	396,521,864.3	168
1/16/2018 12:00	57	396,536,132.2	166
1/16/2018 16:00	60	396,550,346.4	167
1/16/2018 20:00	60	396,564,535.5	165
1/17/2018 0:00	59	396,578,706.8	163
1/17/2018 0:00	60	396,592,894.3	166
1/17/2018 4:00	60	396,607,159.3	166
1/17/2018 8:00	58	396,621,498.2	165
1/17/2018 12:00	60	396,635,840.7	168
1/17/2018 10:00	59	· · · · · · · · · · · · · · · · · · ·	
1/1//2016/20:00	JY	396,650,086.7	167



Time EPA-EXTO2 Flow (gpm) (gal) (cfm) 1/18/2018 0:00 59 396,664,241.4 167 1/18/2018 10:00 59 396,664,241.4 167 1/18/2018 10:00 58 396,6678,392.7 165 1/18/2018 10:00 58 396,678,392.7 165 1/18/2018 10:00 58 396,678,392.7 165 1/18/2018 10:00 58 396,704,780.8 167 1/18/2018 10:00 58 396,704,780.8 167 1/18/2018 0:00 59 396,735,215.4 166 1/19/2018 0:00 59 396,735,215.4 166 1/19/2018 0:00 60 396,735,215.4 166 1/19/2018 10:00 60 396,735,215.4 166 1/19/2018 10:00 60 396,791,7553.1 165 1/19/2018 10:00 58 396,805,845.8 163 1/19/2018 10:00 58 396,805,845.8 163 1/19/2018 10:00 59 396,834,093.9 167 1/20/2018 10:00 59 396,834,093.9 167 1/20/2018 10:00 58 396,864,194.4 167 1/20/2018 10:00 58 396,862,313.4 162 1/20/2018 10:00 60 396,870,447.5 168 1/20/2018 10:00 58 396,805,2313.4 162 1/20/2018 10:00 61 396,890,582.7 165 1/20/2018 10:00 58 396,918,815.7 168 1/20/2018 10:00 58 396,918,815.7 168 1/21/2018 10:00 58 396,918,815.7 168 1/21/2018 10:00 59 396,947,058.3 165 1/21/2018 10:00 59 396,947,058.3 165 1/21/2018 10:00 61 396,932,925.3 163 1/21/2018 10:00 61 396,983,399.8 167 1/21/2018 10:00 61 396,983,399.8 166 1/22/2018 10:00 61 397,034,964 163 1/21/2018 10:00 59 397,074,986.8 166 1/22/2018 10:00 59 397,074,986.8 166 1/22/2018 10:00 59 397,074,986.8 166 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/22/2018 10:00 59 397,175,96.1 167 1/23/2018 10:00 59 397,175,96.1 166 1/23/2018 10:00 59 397,174,086.8 166 1/23/2018 10:00 59 397,115,33	Stanton Cleaners Groundwater Contamination Site Site Operational Data - January 2018			
Time Flow (gpm) (gal) (cfm)		-		CVE Air Flow
1/18/2018 0:00 59 396,664,241.4 167 1/18/2018 4:00 59 396,678,392.7 165 1/18/2018 10:00 58 396,678,392.7 165 1/18/2018 10:00 58 396,678,392.7 165 1/18/2018 10:00 58 396,706,780.8 167 1/18/2018 10:00 58 396,702,1041.3 163 1/18/2018 20:00 58 396,735,215.4 166 1/19/2018 0:00 59 396,749,322.2 162 1/19/2018 4:00 60 396,763,426.6 177 1/19/2018 10:00 61 396,777,553.1 165 1/19/2018 10:00 60 396,791,700.4 167 1/19/2018 10:00 60 396,819,982.7 163 1/19/2018 20:00 60 396,819,982.7 163 1/20/2018 0:00 59 396,834,093.9 167 1/20/2018 4:00 58 396,834,093.9 167 1/20/2018 4:00 58 396,848,194.4 167 1/20/2018 10:00 58 396,876,447.5 168 1/20/2018 10:00 61 396,876,447.5 168 1/20/2018 10:00 61 396,890,582.7 166 1/20/2018 20:00 58 396,947,057.7 165 1/21/2018 4:00 58 396,947,057.7 165 1/21/2018 4:00 58 396,947,057.7 165 1/21/2018 4:00 57 396,932,925.3 163 1/21/2018 4:00 57 396,932,925.3 163 1/21/2018 10:00 61 396,989,399.8 167 1/21/2018 10:00 61 396,989,399.8 167 1/22/2018 10:00 61 396,989,399.8 167 1/22/2018 10:00 61 396,989,399.8 167 1/22/2018 10:00 61 397,034,96.4 163 1/22/2018 10:00 61 397,034,96.4 163 1/22/2018 10:00 61 397,034,96.4 163 1/22/2018 10:00 61 397,034,96.4 163 1/22/2018 10:00 61 397,034,96.8 166 1/22/2018 10:00 59 397,045,840.2 165 1/22/2018 10:00 58 397,045,840.2 165 1/22/2018 10:00 59 397,045,840.2 165 1/22/2018 10:00 59 397,045,840.2 165 1/22/2018 10:00 59 397,045,840.2 166 1/23/2018 10:00 59 397,155,640 166 1/23/2018 10:00 59 397,155,600 167 1/23/2018 10:00 59 397,155,600 167 1/23/2018 10:00 59 397,155,600 167 1/23/2018 10:00 59 397,155,600 167 1/23/2018 10:00 59 397,155,600 167 1/23/2018 10:00 59 397,300,638.6 168 1/23/2018 10:00 59 397,300,638.6 168 1	Time			
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1/18/2018 12:00 58 396,92,575.1 168 1/18/2018 12:00 58 396,706,780.8 167 1/18/2018 12:00 58 396,736,780.8 167 1/18/2018 12:00 58 396,735,215.4 166 1/19/2018 0:00 59 396,735,215.4 166 1/19/2018 0:00 59 396,749,322.2 162 1/19/2018 4:00 60 396,763,426.6 177 1/19/2018 12:00 60 396,777,553.1 165 1/19/2018 12:00 60 396,791,700.4 167 1/19/2018 16:00 58 396,805,845.8 163 1/19/2018 20:00 60 396,819,982.7 163 1/20/2018 0:00 59 396,834,093.9 167 1/20/2018 0:00 58 396,844,194.4 167 1/20/2018 16:00 58 396,844,194.4 167 1/20/2018 12:00 60 396,876,447.5 168 1/20/2018 12:00 60 396,876,447.5 168 1/20/2018 12:00 61 396,890,582.7 166 1/20/2018 12:00 58 396,947,05.7 165 1/21/2018 0:00 58 396,947,05.7 165 1/21/2018 0:00 58 396,918,815.7 168 1/21/2018 0:00 58 396,918,815.7 168 1/21/2018 0:00 58 396,918,815.7 168 1/21/2018 0:00 59 396,932,925.3 163 1/21/2018 12:00 59 396,932,925.3 163 1/21/2018 12:00 59 396,91,173.4 163 1/21/2018 0:00 61 396,989,399.8 167 1/22/2018 0:00 61 397,003,496.4 163 1/22/2018 0:00 61 397,003,496.4 166 1/22/2018 0:00 61 397,003,496.4 166 1/22/2018 0:00 61 397,003,496.4 166 1/22/2018 10:00 59 397,059,968.0 167 1/22/2018 10:00 58 397,017,596.1 167 1/22/2018 10:00 59 397,059,968.0 167 1/22/2018 10:00 58 397,031,711.5 166 1/22/2018 10:00 59 397,031,711.5 166 1/22/2018 10:00 59 397,031,731.6 167 1/23/2018 0:00 59 397,158,670.1 166 1/23/2018 0:00 59 397,158,670.1 166 1/23/2018 0:00 59 397,158,670.1 166 1/23/2018 0:00 59 397,144,547.4 166 1/23/2018 10:00 59 397,144,547.4 166 1/23/2018 10:00 59 397,158,670.1 166 1/24/2018 0:00 59 397,215,314.9 163 1/24/2018 0:00 59 397,215,314.9 163 1/24/2018 0:00 59 397,316,666 158 1/24/2018 0:00 59 397,329,432.1 167 1/2			1 1	
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1/24/2018 20:00 58 397,243,866.6 158 1/25/2018 0:00 57 397,258,002.1 167 1/25/2018 4:00 58 397,272,140.5 164 1/25/2018 8:00 59 397,286,351.0 167 1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/24/2018 12:00	59	397,215,314.9	163
1/25/2018 0:00 57 397,258,002.1 167 1/25/2018 4:00 58 397,272,140.5 164 1/25/2018 8:00 59 397,286,351.0 167 1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/24/2018 16:00	60	397,229,635.6	48
1/25/2018 4:00 58 397,272,140.5 164 1/25/2018 8:00 59 397,286,351.0 167 1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/24/2018 20:00	58	397,243,866.6	158
1/25/2018 8:00 59 397,286,351.0 167 1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/25/2018 0:00	57	397,258,002.1	167
1/25/2018 8:00 59 397,286,351.0 167 1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/25/2018 4:00	58	397,272,140.5	164
1/25/2018 12:00 59 397,300,638.6 168 1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167	1/25/2018 8:00	59		167
1/25/2018 16:00 61 397,314,955.4 166 1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167				
1/25/2018 20:00 59 397,329,142.1 166 1/26/2018 0:00 60 397,343,253.0 167				
1/26/2018 0:00 60 397,343,253.0 167				
1/20/2010 1.00				
1/26/2018 8:00 61 397,371,542.5 166				



Stanton Cleaners Groundwater Contamination Site Site Operational Data - January 2018			
T:	EPA-EXT02	Total Flow	SVE Air Flow
Time	Flow (gpm)	(gal)	(cfm)
1/26/2018 12:00	61	397,385,709.8	168
1/26/2018 16:00	59	397,399,882.5	165
1/26/2018 20:00	61	397,414,032.4	165
1/27/2018 0:00	59	397,428,163.5	167
1/27/2018 4:00	58	397,442,296.1	163
1/27/2018 8:00	60	397,456,440.3	164
1/27/2018 12:00	59	397,470,583.9	167
1/27/2018 16:00	59	397,484,710.8	163
1/27/2018 20:00	61	397,498,831.3	163
1/28/2018 0:00	60	397,512,960.5	166
1/28/2018 4:00	61	397,527,084.4	165
1/28/2018 8:00	59	397,541,232.7	167
1/28/2018 12:00	61	397,555,370.5	167
1/28/2018 16:00	58	397,569,508.9	166
1/28/2018 20:00	58	397,583,637.5	166
1/29/2018 0:00	60	397,597,752.5	167
1/29/2018 4:00	59	397,611,889.7	167
1/29/2018 8:00	58	397,626,031.2	163
1/29/2018 12:00	59	397,640,191.6	167
1/29/2018 16:00	60	397,654,374.1	167
1/29/2018 20:00	60	397,668,557.6	167
1/30/2018 0:00	58	397,682,722.5	167
1/30/2018 4:00	61	397,697,019.5	166
1/30/2018 8:00	62	397,711,678.3	168
1/30/2018 12:00	61	397,726,474.5	166
1/30/2018 16:00	60	397,741,425.7	166
1/30/2018 20:00	58	397,755,908.2	164
1/31/2018 0:00	58	397,770,083.3	165
1/31/2018 4:00	58	397,784,356.0	167
1/31/2018 8:00	60	397,798,693.8	166
1/31/2018 12:00	58	397,813,046.2	164
1/31/2018 16:00	62	397,827,381.5	168
1/31/2018 20:00	59	397,841,614.4	166

Notes:

gpm : gallons per minute cfm : cubic feet per minute

gal : gallons

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Stanton Cleaners Groundwater Contamination Site Site Operational Data - February 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
2/1/2018 0:00	59	397,855,808.0	162
2/1/2018 4:00	61	397,870,037.6	166
2/1/2018 8:00	62	397,884,270.3	163
2/1/2018 12:00	59	397,898,511.1	164
2/1/2018 16:00	59	397,912,817.6	166
2/1/2018 20:00	62	397,927,192.6	168
2/2/2018 0:00	59	397,941,544.0	167
2/2/2018 4:00	60	397,956,132.3	157
2/2/2018 8:00	62	397,970,687.1	164
2/2/2018 12:00	62	397,985,348.0	164
2/2/2018 16:00	61	397,999,984.3	167
2/2/2018 20:00	61	398,014,421.7	166
2/3/2018 0:00	60	398,028,690.4	166
2/3/2018 4:00	59	398,043,032.3	166
2/3/2018 8:00	61	398,057,425.6	166
2/3/2018 12:00	61	398,071,814.5	162
2/3/2018 16:00	61	398,086,221.7	167
2/3/2018 20:00	59	398,100,511.7	163
2/4/2018 20:00	2	398,107,899.8	128
2/5/2018 16:00	1	398,108,019.2	129
2/5/2018 20:00	2	398,108,291.2	127
2/6/2018 0:00	2	398,108,771.0	130
2/6/2018 4:00	2	398,109,250.8	129
2/6/2018 8:00	2	398,109,730.5	130
2/6/2018 12:00	64	398,110,873.9	126
2/6/2018 16:00	65	398,126,450.4	128
2/6/2018 20:00	63	398,141,818.9	130
2/7/2018 0:00	64	398,157,427.7	130
2/7/2018 4:00	65	398,173,240.9	129
2/7/2018 8:00	67	398,189,111.4	130
2/7/2018 12:00	67	398,204,902.5	130
2/7/2018 16:00	64	398,220,505.5	130
2/7/2018 20:00	65	398,235,897.9	128
2/8/2018 0:00	64	398,251,065.7	130
2/8/2018 4:00	64	398,266,491.7	130
2/8/2018 8:00	68	398,282,159.8	131
2/8/2018 12:00	64	398,297,890.7	130
2/8/2018 16:00	64	398,313,130.3	127
2/8/2018 20:00	62	398,328,199.5	127
2/9/2018 0:00	66	398,343,689.9	130
2/9/2018 4:00	67	398,359,501.5	129
2/9/2018 8:00	67	398,375,475.4	126
2/9/2018 12:00	66	398,391,402.1	128
2/9/2018 16:00	67	398,406,901.1	129
2/9/2018 20:00	64	398,422,380.5	126
2/10/2018 0:00	66	398,437,931.7	129
2/10/2018 4:00	66	398,453,437.6	128
2/10/2018 8:00	64	398,468,847.8	128
2/10/2018 12:00	62	398,484,013.8	127
2/10/2018 16:00	61	398,498,668.6	126



Stanton Cleaners Groundwater Contamination Site Site Operational Data - February 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
2/10/2018 20:00	60	398,513,268.7	124
2/11/2018 0:00	62	398,527,906.1	129
2/11/2018 4:00	60	398,542,553.5	130
2/11/2018 8:00	61	398,557,172.3	129
2/11/2018 12:00	61	398,571,758.3	125
2/11/2018 16:00	60	398,586,245.9	124
2/11/2018 20:00	60	398,600,578.7	128
2/12/2018 0:00	59	398,614,846.1	129
2/12/2018 4:00	60	398,629,039.8	129
2/12/2018 8:00	61	398,643,232.9	124
2/12/2018 12:00	60	398,657,722.2	126
2/12/2018 16:00	60	398,672,394.8	126
2/12/2018 20:00	62	398,687,051.6	129
2/13/2018 0:00	65	398,702,127.6	130
2/13/2018 4:00	65	398,717,599.0	129
2/13/2018 8:00	69	398,733,319.6	128
2/13/2018 12:00	66	398,749,092.9	128
2/13/2018 16:00	62	398,764,215.4	120
2/13/2018 20:00	65	398,779,092.5	117
2/14/2018 0:00	64	398,794,411.1	118
2/14/2018 4:00	64	398,809,829.2	120
2/14/2018 8:00	66	398,825,250.8	121
2/14/2018 12:00	62	398,840,525.4	117
2/14/2018 16:00	60	398,855,185.8	116
2/14/2018 20:00	60	398,869,535.0	116
2/15/2018 0:00	60	398,884,108.5	120
2/15/2018 4:00	64	398,898,724.6	120
2/15/2018 8:00	61	398,913,326.5	121
2/15/2018 12:00	60	398,927,886.3	115
2/15/2018 16:00	60	398,942,136.3	120
2/15/2018 20:00	60	398,956,294.6	114
2/16/2018 0:00	60	398,970,409.5	114
2/16/2018 4:00	60	398,984,570.8	119
2/16/2018 8:00	60	398,998,693.1	117
2/16/2018 12:00	58	399,012,825.6	120
2/16/2018 16:00	60	399,026,889.8	122
2/16/2018 20:00	60	399,041,047.4	119
2/17/2018 0:00	65	399,055,670.1	121
2/17/2018 4:00	63	399,070,797.4	120
2/17/2018 8:00	64	399,086,274.2	118
2/17/2018 12:00	66	399,101,787.3	119
2/17/2018 16:00	64	399,116,700.8	120
2/17/2018 20:00	64	399,131,679.8	120
2/18/2018 0:00	63	399,146,879.0	118
2/18/2018 4:00	65	399,162,207.1	118
2/18/2018 8:00	66	399,177,604.0	119
2/18/2018 12:00	63	399,193,027.6	115
2/18/2018 16:00	63	399,207,949.4	117
2/18/2018 20:00	62	399,222,591.7	119
2/19/2018 0:00	64	399,237,681.4	117



Stanton Cleaners Groundwater Contamination Site Site Operational Data - February 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
2/19/2018 4:00	65	399,253,138.8	115
2/19/2018 8:00	64	399,268,740.7	116
2/19/2018 12:00	62	399,284,131.3	118
2/19/2018 16:00	62	399,298,972.4	117
2/19/2018 20:00	62	399,313,695.5	114
2/20/2018 0:00	62	399,328,424.7	118
2/20/2018 4:00	62	399,343,143.6	118
2/20/2018 8:00	62	399,357,746.8	120
2/20/2018 12:00	60	399,372,228.5	115
2/20/2018 16:00	59	399,386,340.8	118
2/20/2018 20:00	59	399,400,344.5	116
2/21/2018 0:00	58	399,414,364.6	116
2/21/2018 4:00	61	399,428,481.8	117
2/21/2018 8:00	60	399,442,599.7	117
2/21/2018 12:00	59	399,456,691.9	114
2/21/2018 16:00	57	399,470,654.6	118
2/21/2018 20:00	61	399,484,592.1	114
2/22/2018 0:00	59	399,498,485.3	119
2/22/2018 4:00	59	399,512,453.8	113
2/22/2018 8:00	60	399,526,509.4	117
2/22/2018 12:00	58	399,540,680.7	119
2/22/2018 16:00	60	399,554,815.2	119
2/22/2018 20:00	60	399,569,057.1	117
2/23/2018 0:00	61	399,583,503.9	117
2/23/2018 4:00	63	399,598,103.1	115
2/23/2018 8:00	64	399,612,835.1	116
2/23/2018 12:00	62	399,627,700.4	87
2/23/2018 16:00	63	399,642,516.4	84
2/23/2018 20:00	62	399,657,314.6	88
2/24/2018 0:00	62	399,672,075.1	88
2/24/2018 4:00	60	399,686,810.5	87
2/24/2018 8:00	62	399,701,498.2	88
2/24/2018 12:00	60	399,715,972.2	87
2/24/2018 16:00	60	399,730,131.7	83
2/24/2018 20:00	58	399,744,255.4	88
2/25/2018 0:00	60	399,758,472.2	88
2/25/2018 4:00	62	399,772,830.0	84
2/25/2018 8:00	62	399,787,303.5	89
2/25/2018 12:00	60	399,801,853.3	83
2/25/2018 16:00	63	399,816,400.0	87
2/25/2018 20:00	60	399,830,937.6	89
2/26/2018 0:00	60	399,845,476.0	87
2/26/2018 4:00	61	399,860,058.1	88
2/26/2018 8:00	64	399,874,742.9	86
2/26/2018 12:00	62	399,889,424.4	87
2/26/2018 16:00	59	399,903,861.0	87
2/26/2018 20:00	59	399,918,147.5	82
2/27/2018 0:00	61	399,932,718.0	85
2/27/2018 4:00	62	399,947,645.1	82
2/27/2018 8:00	65	399,962,895.4	86



Stanton Cleaners Groundwater Contamination Site Site Operational Data - February 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
2/27/2018 12:00	60	399,977,901.1	84
2/27/2018 16:00	58	399,992,130.2	87
2/27/2018 20:00	59	400,006,218.3	87
2/28/2018 0:00	60	400,020,465.8	84
2/28/2018 4:00	62	400,035,025.1	85
2/28/2018 8:00	61	400,049,763.2	86
2/28/2018 12:00	59	400,064,347.4	85
2/28/2018 16:00	57	400,078,408.8	84
2/28/2018 20:00	59	400,092,365.7	87

Notes:

gpm : gallons per minute cfm : cubic feet per minute

gal : gallons

Stanton Cleaners Groundwater Contamination Site Site Operational Data - March 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
3/1/2018 0:00	58	400,106,405.0	87
3/1/2018 4:00	60	400,120,539.0	83
3/1/2018 8:00	60	400,134,682.0	88
3/1/2018 12:00	58	400,148,807.2	154
3/1/2018 16:00	62	400,162,798.6	155
3/1/2018 20:00	58	400,176,780.7	156
3/2/2018 0:00	59	400,190,770.0	153
3/2/2018 4:00	61	400,204,775.1	156
3/2/2018 8:00	58	400,218,814.6	155
3/2/2018 12:00	61	400,233,115.8	179
3/2/2018 16:00	69	400,248,472.2	184
3/2/2018 20:00	67	400,264,437.2	181
3/3/2018 0:00	66	400,280,296.1	187
3/3/2018 4:00	66	400,296,000.5	189
3/3/2018 8:00	67	400,311,603.9	187
3/3/2018 12:00	65	400,327,078.8	166
3/3/2018 16:00	65	400,341,959.6	165
3/3/2018 20:00	64	400,356,793.2	165
3/4/2018 0:00	62	400,371,720.4	166
3/4/2018 4:00	62	400,386,483.2	164
3/4/2018 8:00	63	400,401,517.1	164
3/4/2018 12:00	64	400,416,512.7	161
3/4/2018 16:00	63	400,431,067.4	161
3/4/2018 20:00	64	400,445,609.9	164
3/5/2018 0:00	61	400,460,343.3	162
3/5/2018 4:00	62	400,475,311.5	164
3/5/2018 8:00	66	400,490,560.2	167
3/5/2018 12:00	61	400,505,655.9	165
3/5/2018 16:00	61	400,520,454.9	165
3/5/2018 20:00	61	400,535,195.3	166
3/6/2018 0:00	63	400,549,871.9	166
3/6/2018 4:00	63	400,564,741.9	165
3/6/2018 8:00	64	400,579,842.5	166
3/6/2018 12:00	59	400,594,505.2	160
3/6/2018 16:00	58	400,608,521.0	154
3/6/2018 20:00	60	400,622,483.6	165
3/7/2018 0:00	60	400,636,549.4	166
3/7/2018 4:00	59	400,650,732.4	167
3/7/2018 4:00	63	400,665,123.7	166
3/7/2018 12:00	61	400,679,593.8	166
3/7/2018 12:00	61	400,694,337.4	166
3/7/2018 20:00	67	400,710,306.4	165
3/8/2018 0:00	63	400,725,619.9	165
3/8/2018 4:00	62	400,740,720.6	164
3/8/2018 8:00	62	400,755,806.0	187
3/8/2018 12:00	61	400,770,615.9	174
3/8/2018 12:00	61	400,785,001.6	182
3/8/2018 20:00	61	400,799,391.9	183
3/9/2018 0:00	64	400,739,391.9	187
3/9/2018 0:00	63	400,814,000.4	156
3/9/2018 4:00	62	400,843,997.7	192
3/3/2010 0.00	UZ	700,073,777.7	174



Stanton Cleaners Groundwater Contamination Site Site Operational Data - March 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
3/9/2018 12:00	65	400,859,267.7	173
3/9/2018 16:00	60	400,873,770.7	179
3/9/2018 20:00	62	400,888,160.9	178
3/10/2018 0:00	61	400,902,889.5	165
3/10/2018 4:00	63	400,917,979.0	161
3/10/2018 8:00	65	400,933,309.1	164
3/10/2018 12:00	61	400,948,442.1	161
3/10/2018 16:00	62	400,963,163.1	164
3/10/2018 20:00	62	400,977,889.9	164
3/11/2018 0:00	66	400,992,848.4	165
3/11/2018 4:00	66	401,004,280.5	166
3/11/2018 8:00	65	401,019,678.3	161
3/11/2018 12:00	61	401,034,938.8	165
3/11/2018 16:00	60	401,049,301.9	166
3/11/2018 20:00	60	401,063,390.0	164
3/12/2018 0:00	59	401,077,673.2	165
3/12/2018 4:00	63	401,092,416.8	167
3/12/2018 8:00	64	401,107,587.5	165
3/12/2018 12:00	61	401,122,550.6	165
3/12/2018 16:00	61	401,136,993.1	165
3/12/2018 20:00	60	401,151,368.5	166
3/13/2018 0:00	60	401,165,886.7	163
3/13/2018 4:00	66	401,180,788.8	165
3/13/2018 8:00	64	401,196,083.1	163
3/13/2018 12:00	63	401,211,513.8	165
3/13/2018 16:00	61	401,226,635.6	165
3/13/2018 20:00	62	401,241,374.4	166
3/14/2018 0:00	64	401,256,426.6	164
3/14/2018 4:00	67	401,271,795.4	166
3/14/2018 8:00	66	401,287,353.9	167
3/14/2018 12:00	63	401,302,703.9	165
3/14/2018 16:00	61	401,317,418.3	166
3/14/2018 20:00	61	401,332,092.6	165
3/15/2018 0:00	63	401,347,071.5	162
3/15/2018 4:00	63	401,362,420.6	165
3/15/2018 8:00	64	401,377,992.1	165
3/15/2018 12:00	62	401,393,293.6	166
3/15/2018 16:00	62	401,407,719.1	164
3/15/2018 20:00	61	401,421,923.4	165
3/16/2018 0:00	60	401,436,413.8	164
3/16/2018 4:00	62	401,451,254.3	165
3/16/2018 8:00	65	401,466,475.2	165
3/16/2018 12:00	62	401,481,704.2	164
3/16/2018 16:00	64	401,496,777.2	164
3/16/2018 20:00	66	401,511,866.4	166
3/17/2018 0:00	66	401,527,340.4	165
3/17/2018 4:00	66	401,543,081.8	165
3/17/2018 8:00	65	401,558,956.4	163
3/17/2018 12:00	64	401,574,523.9	161
3/17/2018 12:00	61	401,589,186.5	166
3/17/2018 10:00	63	401,603,539.4	162
3/1//2010/20.00	U.S	TU1,UUJ,JJJJ.4	102



Stanton Cleaners Groundwater Contamination Site Site Operational Data - March 2018			
Time	EPA-EXT02 Flow (gpm)	Total Flow (gal)	SVE Air Flow (cfm)
3/18/2018 0:00	61	401,618,170.7	163
3/18/2018 4:00	64	401,633,263.2	162
3/18/2018 8:00	68	401,648,784.0	165
3/18/2018 12:00	65	401,664,241.8	165
3/18/2018 16:00	61	401,679,086.3	165
3/18/2018 20:00	60	401,693,560.9	165
3/19/2018 0:00	62	401,708,420.8	162
3/19/2018 4:00	66	401,723,704.8	167
3/19/2018 8:00	65	401,739,147.1	167
3/19/2018 12:00	61	401,754,305.3	163
3/19/2018 16:00	60	401,768,647.4	166
3/19/2018 20:00	60	401,782,829.7	165
3/20/2018 0:00	61	401,797,389.0	163
3/20/2018 4:00	67	401,812,491.4	162
3/20/2018 8:00	65	401,827,930.3	161
3/20/2018 12:00	64	401,843,345.5	161
3/20/2018 16:00	63	401,858,686.9	165
3/20/2018 20:00	65	401,873,986.5	160
3/21/2018 0:00	65	401,889,292.2	165
3/21/2018 4:00	67	401,904,663.0	165
3/21/2018 8:00	66	401,920,144.7	165
3/21/2018 12:00	66	401,935,739.0	165
3/21/2018 16:00	64	401,951,369.1	165
3/21/2018 20:00	66	401,967,010.6	166
3/22/2018 0:00	66	401,982,680.6	163
3/22/2018 4:00	65	401,998,376.5	166
3/22/2018 8:00	66	402,013,973.5	166
3/22/2018 12:00	61	402,029,313.9	164
3/22/2018 16:00	62	402,043,727.0	165
3/22/2018 20:00	60	402,057,871.8	165
3/23/2018 0:00	61	402,072,377.9	165
3/23/2018 4:00	66	402,087,247.7	165
3/23/2018 8:00	63	402,102,392.4	166
3/23/2018 12:00	60	402,117,105.0	162
3/23/2018 16:00	58	402,131,195.6	164
3/23/2018 20:00	62	402,145,259.2	166
3/24/2018 0:00	63	402,159,540.2	165
3/24/2018 4:00	63	402,174,145.3	165
3/24/2018 8:00	61	402,189,056.5	165
3/24/2018 12:00	59	402,203,636.4	161
3/24/2018 16:00	58	402,217,630.2	165
3/24/2018 20:00	59	402,231,572.6	166
3/25/2018 0:00	58	402,245,664.1	166
3/25/2018 4:00	63	402,260,122.6	164
3/25/2018 4:00	63	402,274,912.6	165
3/25/2018 12:00	61	402,289,568.0	165
3/25/2018 16:00	59	402,303,839.3	165
3/25/2018 10:00	61	402,318,090.2	165
3/26/2018 0:00	62	402,318,090.2	166
3/26/2018 4:00	66	402,332,830.7	162
3/26/2018 8:00	63	402,363,704.7	165
3/20/2010 8:00	UJ	402,303,704.7	103



Stanton Cleaners Groundwater Contamination Site Site Operational Data - March 2018			
Tr'	EPA-EXT02	Total Flow	SVE Air Flow
Time	Flow (gpm)	(gal)	(cfm)
3/26/2018 12:00	60	402,378,658.3	167
3/26/2018 16:00	58	402,392,721.4	164
3/26/2018 20:00	60	402,406,785.0	165
3/27/2018 0:00	63	402,421,368.4	162
3/27/2018 4:00	67	402,436,588.7	165
3/27/2018 8:00	66	402,452,054.5	166
3/27/2018 12:00	61	402,466,876.8	165
3/27/2018 16:00	61	402,481,237.6	166
3/27/2018 20:00	62	402,495,779.7	164
3/28/2018 0:00	62	402,510,517.3	166
3/28/2018 4:00	64	402,525,350.9	165
3/28/2018 8:00	63	402,540,088.4	165
3/28/2018 12:00	59	402,554,400.6	165
3/28/2018 16:00	58	402,568,481.7	165
3/28/2018 20:00	57	402,582,543.0	166
3/29/2018 0:00	60	402,596,598.4	164
3/29/2018 4:00	59	402,610,676.8	165
3/29/2018 8:00	60	402,624,748.2	157
3/29/2018 12:00	59	402,638,766.7	157
3/29/2018 16:00	59	402,652,698.4	156
3/29/2018 20:00	58	402,666,638.7	155
3/30/2018 0:00	59	402,680,639.5	155
3/30/2018 4:00	58	402,694,675.8	157
3/30/2018 8:00	58	402,708,709.5	154
3/30/2018 12:00	57	402,722,676.9	156
3/30/2018 16:00	59	402,736,610.7	157
3/30/2018 20:00	59	402,750,573.2	156
3/31/2018 0:00	61	402,764,642.1	154
3/31/2018 4:00	60	402,778,967.4	156
3/31/2018 8:00	60	402,793,503.8	156
3/31/2018 12:00	58	402,807,629.0	156
3/31/2018 16:00	58	402,821,546.5	154
3/31/2018 20:00	59	402835521.1	154

Notes:

gpm : gallons per minute cfm : cubic feet per minute

gal : gallons

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Appendix D

AS System O&M

Reports

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE Air Sparge System O&M Data Log

Date: 1/25/2018

Readings at	Well
Near Well Head	N/A*
Bladder	

Treatment Room Readings		
SCFM	N/A* PSI	
psi-1	N/A* PSI	
psi-2	N/A* PSI	
psi-3	N/A* PSI	
P ₁	N/A* PSI	
P ₂	N/A* PSI	
P ₃	N/A* PSI	

System Readings	
Temp.	N/A* ºF
EN-37-1	N/A* bar
K/O Tank	N/A* PSI

Notes:

*Air readings could not be collected due to the Air Sparge System being offline.

*Air Sparge System offline SCFM- Standard Cubic Feet per Minute psi- pounds per square inch

Locations:

Near Well Head- psi gauge at corner of New Stanton Cleaners Building

Bladder- psi gauge at well head

SCFM- gauge in treatment room (first gauge when looking at wall from left to right)

psi-1 - 2nd gauge attached to line on wall when looking left to right

psi-2 - 3rd gauge psi-3- 4th gauge

 P_1 - influent relief valve

P₂- adjacent to catwalk

P₃- on top of carbon tank

Temp.- from compressor screen display

EN-37-1- gauge on compressor K/O Tank- gauge on knockout tank

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE Air Sparge System O&M Data Log

Date: 2/22/2018

Readings at	Well
Near Well Head	N/A*
Bladder	

Treatment Room Readings		
SCFM	N/A* PSI	
psi-1	N/A* PSI	
psi-2	N/A* PSI	
psi-3	N/A* PSI	
P ₁	N/A* PSI	
P ₂	N/A* PSI	
P_3	N/A* PSI	

System Readings	
Temp.	N/A* ºF
EN-37-1	N/A* bar
K/O Tank	N/A* PSI

Notes:

*Air readings could not be collected due to the Air Sparge System being offline.

*Air Sparge System offline SCFM- Standard Cubic Feet per Minute psi- pounds per square inch

Locations:

Near Well Head- psi gauge at corner of New Stanton Cleaners Building

Bladder- psi gauge at well head

SCFM- gauge in treatment room (first gauge when looking at wall from left to right)

psi-1 - 2nd gauge attached to line on wall when looking left to right

psi-2 - 3rd gauge psi-3- 4th gauge

 P_1 - influent relief valve

P₂- adjacent to catwalk

P₃- on top of carbon tank

Temp.- from compressor screen display

EN-37-1- gauge on compressor K/O Tank- gauge on knockout tank

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE Air Sparge System

O&M Data Log

Date: 3/29/2018

Readings at	Well
Near Well Head	N/A*
Bladder	

Treatment Room Readings		
SCFM	N/A* PSI	
psi-1	N/A* PSI	
psi-2	N/A* PSI	
psi-3	N/A* PSI	
P ₁	N/A* PSI	
P ₂	N/A* PSI	
P ₃	N/A* PSI	

System Readings		
Temp.	N/A* °F	
EN-37-1	N/A* bar	
K/O Tank	N/A* PSI	

Notes

*Air readings could not be collected due to the Air Sparge System being offline.

*Air Sparge System offline SCFM- Standard Cubic Feet per Minute psi- pounds per square inch

Locations:

Near Well Head- psi gauge at corner of New Stanton Cleaners Building Bladder- psi gauge at well head SCFM- gauge in treatment room (first gauge when looking at wall from left to right) psi-1 - 2nd gauge attached to line on wall when looking left to right psi-2 - 3rd gauge psi-3- 4th gauge $P_1\text{- influent relief valve}$ $P_2\text{- adjacent to catwalk}$

P₃- on top of carbon tank Temp.- from compressor screen display EN-37-1- gauge on compressor

K/O Tank- gauge on knockout tank

Appendix E

SVE System O&M

Reports

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE Soil-Vapor Extraction and Pump and Treat System Monthly Air Monitoring Log

Date:	1/25/2018
Project #	

		FID	MultiRAE Plus PGM-50					VelociCalc Plus				
	Pipe ID	voc	voc	co	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	N/A	0.4	0.0	20.5	0.0	0.0	46.2	NA**	25.5	-9.3	NA**
Post- Blower Pre-Carbon*	5.706	N/A	1.1	0.0	20.2	0.0	0.0	72.6	1.272	41.7	8.3	278.74
EPA-SVE-1 (shallow)	1.913	N/A	0.6	0.0	20.9	0.0	0.0	32.9	0.070	42.7	-10.0	0.14
EPA-SVE-1 (medium)	1.913	N/A	0.0	0.0	20.9	0.0	0.0	31.8	0.011	48.1	-9.3	0.10
EPA-SVE-2 (shallow)	1.913	N/A	0.0	0.0	20.9	0.0	0.0	32.5	-0.732	29.5	-13.9	1.61
EPA-SVE-2 (medium)	1.913	N/A	0.0	0.0	20.5	0.0	0.0	37.7	-2.355	34.5	-9.9	13.82
SS-A	1.913	N/A	0.0	0.0	20.9	0.0	0.0	30.0	-10.922	28.6	-15.2	32.27
SVE-3A	1.913	N/A	0.0	0.0	20.9	0.0	0.0	37.6	-12.891	30.2	-8.1	119.19
SVE-3B	1.913	N/A	0.4	0.0	20.9	0.0	0.0	36.5	-13.128	31.9	-10.8	114.43
SVE-1 Combined	1.913	N/A	0.0	0.0	20.9	0.0	0.0	36.0	-8.162	30.5	-3.7	48.90
SVE-2 Combined	1.913	N/A	0.0	0.0	20.9	0.0	0.0	31.3	-10.700	27.7	-0.3	93.32
Background		N/A	0.0	0.0	20.9	0.0	0.0	39.6	NA	21.4	-17.3	NA

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon Sampling Location" Dew Point data

unavailable, an alternate velocicalc

Equipment calibrated by: Air readings collected by: John Zator John Zator

Notes:
**Maxed out reading on meter
FID: Flame Ionization Detector
VOC: Volatile Organic Compounds (in parts per million)
CO: Carbon Monoxide
LEL: Lower Explosive Limit

H2S: Hydrogen Sulfide Temperature: Measured in Degrees Fahrenheit

Vacuum Pressure: measured in inches of water (in/H2O) %RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit
Flow: measured in cubic feet per minute (CFM)

AS: Air Stripper

SVE: Soil Vapor Extraction System

	Prior to 10/3/05	After 10/3/05
SVE 1	shallow on	shallow and medium on
SVE 2	shallow on	shallow on
SVE 3	shallow on	shallow on
SVE 4	off	off
EPA-SVE-04R/SSB(A)	on	on
SS-A	on	on
SS-B(B)	on	off
SS-B(C)	on	on
L1	on	off
L2	on	off

<u>Comments:</u> New SVE well EPA-EXT-04 online since 11/4/04

LIHA sub-slab system was removed by the EPA from service in the Fall of 2012.

N/A- Not Available

STANTON CLEANERS AREA GROUNDWATER **CONTAMINATION SITE**

Soil-Vapor Extraction and Pump and Treat System Monthly Air Monitoring Log

2/22/2018 Date: Project #

		FID	ID MultiRAE Plus PGM-50					VelociCalc Plus				
	Pipe ID	VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	N/A	***	***	***	***	***	***	***	***	***	***
Post- Blower Pre-Carbon*	5.706	N/A	***	***	***	***	***	***	***	***	***	***
EPA-SVE-1 (shallow)	1.913	N/A	***	***	***	***	***	***	***	***	***	***
EPA-SVE-1 (medium)	1.913	N/A	***	***	***	***	***	***	***	***	***	***
EPA-SVE-2 (shallow)	1.913	N/A	***	***	***	***	***	***	***	***	***	***
EPA-SVE-2 (medium)	1.913	N/A	***	***	***	***	***	***	***	***	***	***
SS-A	1.913	N/A	***	***	***	***	***	***	***	***	***	***
SVE-3A	1.913	N/A	***	***	***	***	***	***	***	***	***	***
SVE-3B	1.913	N/A	***	***	***	***	***	***	***	***	***	***
SVE-1 Combined	1.913	N/A	***	***	***	***	***	***	***	***	***	***
SVE-2 Combined	1.913	N/A	***	***	***	***	***	***	***	***	***	***
Background		N/A	***	***	***	***	***	***	***	***	***	***

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon Sampling Location" Dew Point data

unavailable, an alternate velocicalc

Equipment calibrated by: Air readings collected by: John Zator John Zator

Notes:
"Maxed out reading on meter
"Did not collect readings due to SVE system being offline
FID: Flame lonization Detector

VOC: Volatile Organic Compounds (in parts per million)

CO: Carbon Monoxide LEL: Lower Explosive Limit

H2S: Hydrogen Sulfide
Temperature: Measured in Degrees Fahrenheit
Vacuum Pressure: measured in inches of water (in/H2O)

%RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit Flow: measured in cubic feet per minute (CFM)

AS: Air Stripper SVE: Soil Vapor Extraction System

	Prior to 10/3/05	After 10/3/05
SVE 1	shallow on	shallow and medium on
SVE 2	shallow on	shallow on
SVE 3	shallow on	shallow on
SVE 4	off	off
EPA-SVE-04R/SSB(A)	on	on
SS-A	on	on
SS-B(B)	on	off
SS-B(C)	on	on
L1	on	off
L2	on	off

<u>Comments:</u>
New SVE well EPA-EXT-04 online since 11/4/04
LIHA sub-slab system was removed by the EPA from service in the Fall of 2012.

N/A- Not Available

STANTON CLEANERS AREA GROUNDWATEF

CONTAMINATION SITE Soil-Vapor Extraction and Pump and Treat System Monthly Air Monitoring Log

Date: 3/29/2018 Project #

		FID MultiRAE Plus PGM-50					VelociCalc Plus					
	Pipe ID	VOC	VOC	co	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	N/A	0.0	0.0	20.9	0.0	0.0	64.4	**	50.6	45.7	**
Post- Blower Pre-Carbon*	5.706	N/A	0.0	0.0	20.1	0.0	0.0	56.9	1.063	84.2	52.2	170.32
EPA-SVE-1 (shallow)	1.913	N/A	0.0	0.0	20.9	0.0	0.0	57.4	**	69.2	47.4	20.20
EPA-SVE-1 (medium)	1.913	N/A	0.0	0.0	20.9	0.0	0.0	57.7	**	67.2	46.4	21.13
EPA-SVE-2 (shallow)	1.913	N/A	0.0	0.0	20.9	0.0	0.0	58.2	-0.430	60.5	44.6	1.24
EPA-SVE-2 (medium)	1.913	N/A	0.0	0.0	20.4	0.0	0.0	60.6	-3.115	59.8	46.5	20.62
SS-A	1.913	N/A	0.0	0.0	20.9	0.0	0.0	56.7	-14.680	55.5	41.2	128.48
SVE-3A	1.913	N/A	0.0	0.0	20.9	0.0	0.0	61.2	**	61.8	48.0	185.18
SVE-3B	1.913	N/A	0.0	0.0	20.9	0.0	0.0	58.6	-14.473	55.2	42.6	114.99
SVE-1 Combined	1.913	N/A	0.0	0.0	20.9	0.0	0.0	59.2	**	64.2	47.1	**
SVE-2 Combined	1.913	N/A	0.0	0.0	20.9	0.0	0.0	55.6	-12.459	59.3	48.7	112.30
Background		N/A	0.0	0.0	20.9	0.0	0.0	58.4	NA	66.7	47.4	NA

Notes:

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon Sampling Location" Dew Point data

unavailable, an alternate

velocicalc

Equipment calibrated by: Daniel Prisco-Buxbaum Daniel Prisco-Buxbaum Air readings collected by:

Notes:
**Maxed out reading on meter
*** Did not collect readings due to SVE system being offline
FID: Flame Ionization Detector

VOC: Volatile Organic Compounds (in parts per million)
CO: Carbon Monoxide

LEL: Lower Explosive Limit

H2S: Hydrogen Sulfide
Temperature: Measured in Degrees Fahrenheit
Vacuum Pressure: measured in inches of water (in/H2O)
%RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit Flow: measured in cubic feet per minute (CFM)

AS: Air Stripper SVE: Soil Vapor Extraction System

	Prior to 10/3/05	After 10/3/05
SVE 1	shallow on	shallow and medium on
SVE 2	shallow on	shallow on
SVE 3	shallow on	shallow on
SVE 4	off	off
EPA-SVE-04R/SSB(A)	on	on
SS-A	on	on
SS-B(B)	on	off
SS-B(C)	on	on
L1	on	off
L2	on	off

<u>Comments:</u> New SVE well EPA-EXT-04 online since 11/4/04

LIHA sub-slab system was removed by the EPA from service in the Fall of 2012.

N/A- Not Available

Appendix F Monthly Groundwater Level Measurements

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners	3			JOB NUMBER:	
LOCATION:	Great Neck, NY				DATE:	1/25/2018
CLIENT:	HDR				MEASURED BY:	JZ
SURVEY DATUM:	ft msl					
MEASURING DEVICE:	Solinst Water Lev	el Indicator				•
WELL	MEASURING F	POINT	Time	DEPTH TO WATER	ELEVATION OF	COMMENTS
NUMBER	Description	Elevation (FT)		(FT)	WATER (FT)	
EPA-MW-11D	ft BTOC	74.63	11:26	58.82	15.81	4" well in p-lot by med sports bldg.
EPA-MW-21-R	ft BTOC	84.13	11:49	66.79	17.34	Getty Gas Station well
EPA-MW-22	ft BTOC	82.20			N/A	Under clothing bin- SC p-lot
EPA-MW-23	ft BTOC	82.83	10:50	64.63	18.20	In front of treatment bldg.
EPA-MW-27	ft BTOC	69.32	11:41	51.75	17.57	LIHA PL
ST-MW-06	ft BTOC	69.83	*	*	#VALUE!	LIHA PL 4"
EPA-MW-9A	ft BTOC	80.24	*	*	#VALUE!	P-lot across from triangle park
ST-MW-11	ft BTOC	75.25	11:29	59.47	15.78	p-lot by entrance to med sports bldg.
ST-MW-12	ft BTOC	87.20	11:19	71.09	16.11	In front of apartment bldg.
ST-MW-14	ft BTOC	69.73	11:43	55.07	14.66	LIHA PL
ST-MW-16	ft BTOC	75.78	10:57	55.65	20.13	Other side treatment bldg. near fence
ST-MW-17	ft BTOC	86.53	11:21	70.55	15.98	In front of apartment bldg.
ST-MW-19	ft BTOC	82.50	11:35	76.00	6.50	Triangle park well
ST-MW-20	ft BTOC	84.53	11:23	71.06	13.47	Near apartment bldg.
EPA-MW-26	ft BTOC	78.37	11:03	56.64	21.73	Ipswich Ave.
ST-MW-15	ft BTOC	90.13	11:12	79.83	10.30	Mirreless Rd
ST-MW-13	ft BTOC	103.95	11:08	86.61	17.34	Amherst Rd
ST-MW-18	ft BTOC	84.40	11:16	72.98	11.42	Ascot Ridge (past apt bldg)

^{*}Unable to gauge ST-MW-09A due to J-plug being frozen shut. Unable to gauge ST-MW-06 due to car covering it.

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners	3			JOB NUMBER:	
LOCATION:	Great Neck, NY				DATE:	2/22/2018
CLIENT:	HDR				MEASURED BY:	JZ
SURVEY DATUM:	ft msl					
MEASURING DEVICE:	Solinst Water Lev	el Indicator				•
WELL	MEASURING F	POINT	Time	DEPTH TO WATER	ELEVATION OF	COMMENTS
NUMBER	Description	Elevation (FT)		(FT)	WATER (FT)	
EPA-MW-11D	ft BTOC	74.63	12:26	58.75	15.88	4" well in p-lot by med sports bldg.
EPA-MW-21-R	ft BTOC	84.13	10:48	66.88	17.25	Getty Gas Station well
EPA-MW-22	ft BTOC	82.20			N/A	Under clothing bin- SC p-lot
EPA-MW-23	ft BTOC	82.83	10:46	64.69	18.14	In front of treatment bldg.
EPA-MW-27	ft BTOC	69.32	11:55	60.10	9.22	LIHA PL
ST-MW-06	ft BTOC	69.83	12:00	46.92	22.91	LIHA PL 4"
EPA-MW-9A	ft BTOC	80.24	*	*	#VALUE!	P-lot across from triangle park
ST-MW-11	ft BTOC	75.25	12:28	59.58	15.67	p-lot by entrance to med sports bldg.
ST-MW-12	ft BTOC	87.20	12:18	71.02	16.18	In front of apartment bldg.
ST-MW-14	ft BTOC	69.73	11:58	55.09	14.64	LIHA PL
ST-MW-16	ft BTOC	75.78	10:54	55.61	20.17	Other side treatment bldg. near fence
ST-MW-17	ft BTOC	86.53	12:20	71.80	14.73	In front of apartment bldg.
ST-MW-19	ft BTOC	82.50	12:31	76.17	6.33	Triangle park well
ST-MW-20	ft BTOC	84.53	12:22	71.24	13.29	Near apartment bldg.
EPA-MW-26	ft BTOC	78.37	11:02	57.97	20.40	Ipswich Ave.
ST-MW-15	ft BTOC	90.13	12:10	81.30	8.83	Mirreless Rd
ST-MW-13	ft BTOC	103.95	12:06	86.53	17.42	Amherst Rd
ST-MW-18	ft BTOC	84.40	12:15	73.14	11.26	Ascot Ridge (past apt bldg)

^{*}Unable to gauge ST-MW-09A due to J-plug being stuck on well.

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners	3			JOB NUMBER:	
LOCATION:	Great Neck, NY				DATE:	3/29/2018
CLIENT:	HDR				MEASURED BY:	DPB
SURVEY DATUM:	ft msl					
MEASURING DEVICE:	Solinst Water Lev	el Indicator				
WELL	MEASURING P	POINT	Time	DEPTH TO WATER	ELEVATION OF	COMMENTS
NUMBER	Description	Elevation (FT)		(FT)	WATER (FT)	
EPA-MW-11D	ft BTOC	74.63	11:32	57.69	16.94	4" well in p-lot by med sports bldg.
EPA-MW-21-R	ft BTOC	84.13	12:18	65.91	18.22	Getty Gas Station well
EPA-MW-22	ft BTOC	82.20			N/A	Under clothing bin- SC p-lot
EPA-MW-23	ft BTOC	82.83	10:51	64.13	18.70	In front of treatment bldg.
EPA-MW-27	ft BTOC	69.32	12:12	50.92	18.40	LIHA PL
ST-MW-06	ft BTOC	69.83	12:10	45.60	24.23	LIHA PL 4"
EPA-MW-9A	ft BTOC	80.24	11:45	63.46	16.78	P-lot across from triangle park
ST-MW-11	ft BTOC	75.25	11:35	58.46	16.79	p-lot by entrance to med sports bldg.
ST-MW-12	ft BTOC	87.20	11:26	70.54	16.66	In front of apartment bldg.
ST-MW-14	ft BTOC	69.73	12:08	51.93	17.80	LIHA PL
ST-MW-16	ft BTOC	75.78	10:54	54.84	20.94	Other side treatment bldg. near fence
ST-MW-17	ft BTOC	86.53	11:28	69.48	17.05	In front of apartment bldg.
ST-MW-19	ft BTOC	82.50	11:17	66.17	16.33	Triangle park well
ST-MW-20	ft BTOC	84.53	11:30	68.59	15.94	Near apartment bldg.
EPA-MW-26	ft BTOC	78.37	10:57	59.13	N/A	Ipswich Ave.
ST-MW-15	ft BTOC	90.13	11:14	72.94	N/A	Mirreless Rd
ST-MW-13	ft BTOC	103.95	11:04	86.12	17.83	Amherst Rd
ST-MW-18	ft BTOC	84.40	11:20	69.57	14.83	Ascot Ridge (past apt bldg)

Notes

ST-MW-09A PVC cap which was stuck on well was freed, enabling Preferred to collect measurements as normal.

Appendix G

Groundwater Sampling Parameters Logs

	SITE Stanton	Î			DATE	1-18-18			
	SAMPLE ID: EPA-CL-40 011918 WELL ID: EPA-CL-170 SAMPLERS: BC MC			= :	Time On-site:		Time Off-site:		
	Depth of well Initial static w	Depth of well (from top of casing)			16.98	Time:			
	Purging Method Airlift Bailer Submersible Pump	F	Centrifugal Pos. Displ. Disposable Bladder Pump Low Flow)	_ <u>교</u>	Well Volume Calculate 2 in. casing: 3 in. casing: 4 in. casing:	_ft. of water x 0.16 = ft. of water x 0.36 =	gallons		
	volume of water re	emoved: gal.	>3 volumes:	yes	no	purged dry? yes _	no		
	Field Tests Volume of Purge pH		Temp (°C)	Spec. Cor		Dissolved	ORP (mv)		
13:30	Water (in ml)	6.89	10.Ce	(ms/cm) 6.152	2214.0	Oxygen (mg/l) 7.54	210.6		
1375		0.79	10.8	0.151	2013.6	7.42	221.4		
1340		G.79	10,9	0.151	1718.2	7 39	232.8		
1345		6.77	11.1	6.150	15043	7.37	294.4		
1350		6.67	11.3	0.150	1401.4	731	304.1		
1355		0008.74	112	6.149	1262.0	7.20	303.5		
1405		6.73	11.1	6.149	1232.8	7.21	310.8		
1410		673 100 670	10.9	0.149	1238.1	7.25	3/5.5		
		100ma 6.71	10.9	0.149	12296	7.20	318.5		
14/15		farm 6.11	10.9	0.149	1230.4	7-21	315,2		
	Method: Stain Teflo Pos. Dispo	Time of Sample Collection: 4:26							
	S		nnly 23° no no	describe describe describe					

WELL ID: <u>E.O.A.</u>	1-45-C			Time On-site:		Time Off-site:
SAMPLERS: AC	LBC	= 		720		150
	<u> </u>	· · · · · · · · · · · · · · · · · · ·		<u>7 D</u>		1000
Depth of well (fro	Depth of well (from top of casing)			AMANA .	Time:	
Initial static water	er level (fron	top of casing)		3.75	Time:	
Purging Method				Well Volume Calculati	on.	
Airlift		Centrifugal		2 in. casing:	ft. of water x 0.16 =	gallo
Bailer		Pos. Displ.			ft. of water x 0.36 =	
Submersible		Disposable	$\overline{\mathbf{Z}}$	4 in. casing:		
Pump		Bladder Pump (Low Flow)			_	
volume of water rem						
	gal.	>3 volumes:	yes	no	purged dry? yes _	no
Field Tests						
Volume of Purge Water (in ml)	рН	Temp (°C)	Spec. Cor (ms/cm)		Dissolved Oxygen (mg/l)	ORP (mv)
	6.57	9.3	.301	1012.3	7.48	251.6
	4.56	9.3	.352	988,6	6.45	257.9
	6.56	9.6	1.372	10%.5	6.73	263.7
	6.55	10-1	-38/	1145.8	6.77	265-1
	6.55	106	.384	1235.0	6.40	768.3
	6.54	10.5	-387	310.6	6.47	270.0
	6-51	10.4	-343	270.7	6.47	278.4
	6.47	10.8	. 395	7634	6.73	3822
	6.49	10.8	.398	284.6	6.3/	282.0
	6.47	108	.397	244.8	6.31	283.9
Sampling Time of Sample Collection: 12.29 Method: Analyses:						
	s steel baile		TCL VOC	s 602	503 Otl	her
Teflon b			TCL SVO	Cs		
				nalyte List Metals		
Pos. Dis			Alkalinity			
Disposa	24 61166					
Disposa Dedicate						
Disposa Dedicate	Disposable					
Disposa Dedicate		ımp				
Disposa Dedicate Other:	Disposable Bladder Pu	ımp				
Disposa Dedicate Other: Observations	Disposable Bladder Pu (Low Flow)	ımp				
Disposa Dedicate Other:	Disposable Bladder Pu (Low Flow) rature:	ımp				
Disposa Dedicate Other: Observations Weather/Tempe	Disposable Bladder Pu (Low Flow) erature: ion:	ımp	describe			
Disposa Dedicate Other: Observations Weather/Tempe Sample descript Free Produ Shee	Disposable Bladder Pu (Low Flow) erature: ion:	emp				

SAMPLE ID: WELL ID: SAMPLERS:	5T-MW-16-0 5T-MW-16 BC MC		Time On-site:		<u> </u>	Time Off-site:		
Depth of Initial stat	well (from top of ca ic water level (from	sing) top of casing)	%	5.60	Time:			
Purging Metl Airlift Bailer Submersi Pump	ble	Centrifugal Pos. Displ. Disposable Bladder Pump (Low Flow)	2 ii	ell Volume Calculation. casing: n. casing: n. casing:	_ft. of water x 0.16 = ft. of water x 0.36 =	gallor gallor		
volume of wat	er removed: gal.	>3 volumes:	yes	no	purged dry? yes	no		
Field Tests Volume of Purge pH Water (in ml)		Temp (°C) Spec. Cond. (ms/cm)		Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)		
	6.79	13.7	.612	5883.3	8.40	323.2		
	6-82	13.4	. 624	5146.4	8.22	386.7		
	6.85	14.1	.630	4863.7	2.14	314.5		
	6.87	14.2	.677	4736.6	8.00	308.4		
	6.87	14.1	-631	3014.6	7.48	313.2		
7	6.86	14.1	599	2463.9	7.98	298.3		
7	6.86	14.1	. 638	1547.8	7.47	304.6		
2	6.86	14.1	-637	1328.4	7.93	311.2		
7	8-86	14.1	.632	1204.1	7.95	317.2		
<i>[</i> 2]	6.86	14.1	.632	1143-2	7.45	314.4		
Sampling Time of S Method: S T P D	Sampling Time of Sample Collection: 1047							
Observations Weather/	s Temperature: escription:		describe					

SITE Stanton				DATE <u>01.19.18</u>				
SAMPLE ID: EPA	-116-23.011 1-116-23	918		Time On-site:		Time Off-site:		
	3C/MC			77.5		Time On-site:		
		· · · · · ·		750		/430		
Depth of well	(from top of ca	asing)			Time:			
Initial static wa	ater level (fron	n top of casing) .		GH.4Ce	Time: _	 ,		
Purging Method			V	/ell Volume Calculat	ion:			
Airlift		Centrifugal		in. casing: X		gallo		
Bailer		Pos. Displ.		in. casing:		gall		
Submersible		Disposable	<u>~</u> 4	in. casing:	ft. of water x 0.65 =	gall		
Pump		Bladder Pump (Low Flow)		<u> </u>	_			
volume of water re	moved: gal.	>3 volumes:	yes	no	purged dry? yes _	no		
Field Tests					_			
Volume of Purge	рН	Temp (°C)	Spec. Cond.	Turbidity (NTUs)	Dissolved	ORP (mv)		
Water (in ml)	6.30	1, 60	(ms/cm)	0000	Oxygen (mg/l)	1 2 1 2		
		11.8	.007	2988.4	8.11	261.8		
	6-28	11.9	340	3024.6	230	365.8		
	6-63	12.8	. 805	2733.4	B.77	250.4		
		12.5	. 844	613.0	6.42	761.8		
	6-66		.014	1694.3	6.08	262.5		
	6.60	12.8	.634	2488.1	5.95	266.4		
	6-66	12.8	.886	1414.8	5.81	267.2		
	6-66	12.7	, 840	1495.1	5.81	770.1		
	6-66	12.7	.891	1546.3	5.80	273.0		
	6-66	12.6	1891	1609.2	5.79	275.4		
·	•							
Method:	ess steel baile	Analys	es: TCL VOCs	602	503 04	ner		
	bailer	" -	TCL SVOCs		503 Oth	iei		
	Disp. Pump			yte List Metals				
	sable bailer		Alkalinity	, 10 2.01				
Dedica	ated numn	•						
Other:	Disposable	•						
~~	Diaduel Fu	Annth						
(Low Flow)								
Observations								
	perature:							
Weather/Temp Sample descri	ption:							
Weather/Temp Sample descri Free Prod	ption: duct? yes	no	describe			·		
Weather/Temp Sample descri Free Prod Sh	duct? yes een? yes		describe					

	SITE Stanton			[DATE 1, 19.1	3			
	SAMPLE ID: 970 51-10-14-011919 WELL ID: 81-14-19 SAMPLERS: OC				Time On-site:		Time Off-site:		
	SAMPLERS:	<u>3c</u> ∜< ⁄		- ₹	70		/43/)		
4,	·	_				-/	750		
	Depth of well (f	rom top of c	asing) n top of casing)		36.60	Time: Time:			
		ter level (stor	ii top oi casing)	<u></u>	EQ.ILX	Time			
	Purging Method Airlift	de l	Centrifugal		ell Volume Calculation.casing:		44		
	Bailer	<u> </u>	Pos. Displ.		n. casing:		gallon:		
	Submersible		Disposable			ft. of water x 0.65 =	gallon		
	Pump	X	Bladder Pump (Low Flow)						
	volume of water removed: _ <u>えら</u> gal.								
	Field Tests								
ſ	Volume of Purge pH		Temp (°C)	Spec. Cond.	Turbidity (NTUs)	Dissolved	ORP (mv)		
335	Water (in ml)	40000	11 11.8	(ms/cm) - 270	7030.4	Oxygen (mg/l)	261.2		
30		6.43	11.8	1541	2001.1	6.42	∂69.6		
35		6.43	11.3	1589	15.02.1	6-30	29/.3		
40		6.42	11,5	. 6.01	1271.6	4.22	300.6		
345		641	11.9	6.05	1189.7	5.47	1301. Y		
50 85		6.40	12.0	.603	\$51.4 \$00	574	363.7		
80		6.41	12.0	.600	795.6	5.70	306.4		
05		G.41	12.0	.598	791.7	5.68	307.0		
Į	Sampling Time of Sample Collection: 1405								
	Method: Stainle	ss steel baile	Analys: er	TCL VOCs	602	503 Oth	ier		
	Teflon			TCL SVOCs					
		isp. Pump able bailer		Target Analyte List Metals Alkalinity					
		ted pump		/					
	Other:	Disposable Bladder Po (Low Flow	ump						
	Observations								
	Weather/Temp								
	Sample descrip Free Prod		no	describe					
		en? yes	no	describe					
		dor? yes _	no	describe	*				
	Comments:								

SITE Stanton				DATE1-22-18				
SAMPLERS: Bo	W-18 0122 MW 18			Time On-site:	13	Time Off-site:		
Depth of well (fr								
Depth of well (fr Initial static water	om top of cas er level (from	top of casing)	**************************************	71.63				
Purging Method Airlift Bailer Submersible Pump		Centrifugal Pos. Displ. Disposable Bladder Pump (Low Flow)	2 i	ell Volume Calculation. casing: n. casing: in. casing:	_ft. of water x 0.16 = _ft. of water x 0.36 =	gallor		
volume of water rem		>3 volumes:	yes	no	purged dry? yes _	no		
Volume of Purge Water (in ml)	рН	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)		
vvater (iii iiii)	11-14	121	0.834	17881	7.52	1425		
	11.52	12.3	1,753	7663	7.08	1119		
	11.12	12.3	1.752	4116	7.01	118.6		
5	11.12	12.3	1.748	9489	6.98	118.6		
5	11.11	12.4	1,730	9379	6.87	1189		
			11/3		0.5	///		
						-		
Teflon b	es steel bailer pailer sp. Pump able bailer ed pump	Ξ	es: TCL VOCs TCL SVOCs Target Analyt Alkalinity	602 ste List Metals	503 Oth	ner		
Observations Weather/Tempe Sample descrip	erature:	lody 450						

SITE Stanton			(DATE	1-22-18				
SAMPLE ID: WELL ID: SAMPLERS: Depth of well (from Initial static water)	n top of cas	sing)		Time On-site:		Time Off-site:			
Purging Method Airlift Bailer Submersible Pump	_	Centrifugal Pos. Displ.	We	ell Volume Calculation. casing: n. casing: n. casing:	on: _ft. of water x 0.16 = _ft. of water x 0.36 =	gallons			
	ved: gal.	>3 volumes:	yes	no	purged dry? yes _	no			
	pH 6.75 6.03 6.17 6.14 6.14 6.14 6.14 6.14	Temp (°C) //. / //. 3 //. 4 //. 6 //. 6 //. 6 //. 6	Spec. Cond. (ms/cm) , 292 , 405 , 601 , 625 - 625 - 625 - 626	Turbidity (NTUs) 4/95,8 2438.6 1402.3 1294.6 1201.1 1160.3	Dissolved Oxygen (mg/l) 9.44 2.38 9.11 9.04 2.99 8.94 8.94 8.93	ORP (mv) 205.9 218.4 225.5 235.7 243.2 250.0 254.5			
Sampling Time of Sample Collection: Method: Stainless steel bailer Teflon bailer Toll SVOCs Pos. Disp. Pump Target Analyte List Metals Disposable bailer Dedicated pump Other: Disposable Bladder Pump (Low Flow)									
Observations Weather/Tempera Sample description Free Product Sheer Odor Comments:	on: <u> </u>	Claxdy no no no	describedescribe						

SITE Stanton			D	ATEOL 22.18		
SAMPLE ID: WELL ID: SAMPLERS:	EXT-02	013318	-	Time On-site:	133	Time Off-site:
Depth of well (from	m top of casing) level (from top o	of casing)	<u> </u>		Time:	
Purging Method Airlift Bailer Submersible Pump	Pos. Dispo	ifugal Displ. Disple Di	2 in	Il Volume Calculation casing: . casing: . casing: . casing:	ft. of water x 0.16 = ft. of water x 0.36 =	gallons
		3 volumes: yes		no	purged dry? yes	no
Volume of Purge Water (in ml)	рН Т	emp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Sampling Time of Sample C	Collection:					
Teflon ba Pos. Disp Disposab Dedicated Other:	. Pump le bailer		TCL VOCs TCL SVOCs Target Analyte Alkalinity		503 Oth	er
Observations Weather/Tempera Sample description Free Product Sheer	on: t? yes	no d	escribe			
	7? yes	no a	escribe			

	SITE Stantor	1			DATE OLAQUE				
	SAMPLE ID: WELL ID: SAMPLERS: BAMPLERS: BAMPLE	A-MW-	26		Time On-site:	<u>-1</u> 1	Time Off-site:		
			asing)n top of casing)		FAMILION	Time:			
	Purging Method Airlift Bailer Submersible Pump	<u></u>	Centrifugal Pos. Displ. Disposable Bladder Pump (Low Flow)	_	Well Volume Calculati 2 in. casing: 3 in. casing: 4 in. casing:	_ft. of water x 0.16 =	gallons gallons gallons		
	volume of water re	emoved: gal.	>3 volumes:	yes	no	purged dry? yes _	no		
	Field Tests Volume of Purge Water (in ml)	e pH	Temp (°C)	Spec. Cond (ms/cm)	. Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)		
010		6.28	13.2	.963	2146.7	6.21	104.6		
015		6.40	13.0	.974	2007.4	8.80	110.8		
070		6.48	13.3	.988	1938.5	8.65	180.7		
005		6.50	13.4	.993	1764.6	8.60	116.4		
1030		6.50	14.1	. 995	1706.9	6.84	132-0		
1035		6.50	14.1	1.021	1690.1	6.82	136.4		
1040		651	14.1	1.041	1670.6	6. 79	141.0		
045		6.52	14.1	1.047	1617.7	6.77	145.0		
050		6.51	14.1	1.051	1531.3	6.75	149.6		
055		16.51	14.1	1.052	1488.2	6.74	149.0		
	Method: Stain Teflo Pos. Dispo	ele Collection: less steel baile n bailer Disp. Pump psable bailer cated pump r: Disposable Bladder Pe (Low Flow	Analys er e	TCL VOCs TCL SVOC		503 Oth	ner		
	Observations Weather/Ten Sample desc	•							
	Free Pro	duct? yes	no	describe					
	S	heen? yes	no	describe					
		Odor? yes	no	describe _					
	Comments:	-		_					

SITE Stanton				DATE	1-22-18	-
SAMPLE ID: SIMW- WELL ID: St-A SAMPLERS: DC MC	1W-15			Time On-site:	_ [Time Off-site:
Depth of well (from Initial static water	n top of casi level (from t	ing)	N.	73.42	Time: Time:	
Purging Method Airlift Bailer Submersible Pump	_ P _ D B	entrifugal los. Displ. disposable ladder Pump Low Flow)	<u>~</u>	3 in. casing:	llation:ft. of water x 0.16 =ft. of water x 0.36 =ft. of water x 0.65	= gallons
94 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G	red: al.	>3 volumes:	yes	no	purged dry? yes	no
	pH (4.71 (4.68) (4.68) (4.65) (4.64) (6.64) (6.64)	Temp (°C) 12.9 13.2 13.3 13.3 13.2 13.2	Spec. Con (ms/cm) 0.322 0.412 0.460 0.460 0.460 0.470 0.472		Oxygen (mg/l) 3.79	ORP (mv) 123 / 158 3 183 1 1641. 2 218 3 221 4 232 4
Teflon bai Pos. Disposabl Dedicated Other:	steel bailer ler Pump e bailer	Analyse	TCL VOC	Cs nalyte List Metals	_ 503 C	Other
Observations Weather/Tempera Sample descriptio Free Product Sheen Odor	n: ? yes	Clary 4.	describe describe describe			

Appendix H LIHA Indoor Air Sampling Questionnaire



Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Site Name: Stanton Cleaners		Site Code:	Operable Unit:		
Building Code:	Building Nam	E: Stanton C	leaners		
Address: 122 Cutter Mill Road			Apt/Suite No: 3A		
City: Great Neck	State: NY	Zip: 11021	County: Nassau		
Contact Information					
Preparer's Name: Daniel Prisco-Buxbaum		***************************************	Phone No: 516-564-1100		
Preparer's Affiliation: Preferred Environme	ental Services		Company Code:		
Purpose of Investigation: Indoor Air Sampl	Ling		Date of Inspection: Feb 21, 2018		
Contact Name: Elvis Gonzalez			Affiliation: MANAGER		
Phone No: 1-407-860-0438 Alt.	Phone No:		Email:		
Number of Occupants (total): 100+ Num	nber of Children: 10	00+			
□ □	☐ Owner Oc		Owner Interviewed?		
Owner Name (if different): North Shore Sep	ohardic Synagogu	e	Owner Phone: (516) 482-4228		
Owner Mailing Address: 130 Cutter Mill					
Building Details					
Bldg Type (Res/Com/Ind/Mixed): COMMERCIA		Bldg Size (S/M/L): MEDIUM			
If Commercial or Industrial Facility, Select Operation	ns:	If Residential Se	ect Structure Type:		
DAY CARE					
Number of Floors: 3 Approx. Year Con:	struction: 1960	X Buildi	ng Insulated? Attached Garage		
Describe Overall Building 'Tightness' and Airflows(6	e.g., results of smoke t	ests):			
Building seems well sealed and in	asulated				
Foundation Description	.bd1dccd				
Foundation Type: BASEMENT		Foundation Dep	th (bgs): Unit: INCHES		
Foundation Floor Material: POURED CONCRE		Farm dation Flag	r Thicknoss:		
	ETE	Foundation Floo	I IIIICKIIESS.		
		Foundation Floo Foundation Wall	Unit: INCHES		
Foundation Wall Material: POURED CONCRE	ETE		Unit: I INCHES		
Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations	ETE tions: NA		Unit: INCHES		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Describe Wall Penetrations?	cions: NA	Foundation Wall	Thickness: Unit: INCHES		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Wall penetrations? Describe Wall Penetrations Basement is: FINISHED Basement	ent is: DRY	Foundation Wall	Thickness: Unit: INCHES		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Wall penetrations? Describe Wall Penetrations Basement is: FINISHED Basement Describe Foundation Condition (cracks, seepage, etc.)	ent is: DRY	Foundation Wall	Thickness: Unit: INCHES os/Drains? Water In Sump?: NO		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Wall penetrations? Describe Wall Penetrations Basement is: FINISHED Baseme Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System Installed?	ent is: DRY etc.): VOC Mitig	Foundation Wall	Thickness: Unit: INCHES os/Drains? Water In Sump?: NO		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Wall penetrations? Describe Wall Penetrations Basement is: FINISHED Baseme Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System Installed?	ent is: DRY etc.): VOC Mitig	Foundation Wall	Thickness: Unit: INCHES os/Drains? Water In Sump?: NO		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations: Describe Wall Penetrations: Basement is: FINISHED Describe Foundation Condition (cracks, seepage, employed) Radon Mitigation System Installed: Heating/Cooling/Ventilation Systems	ent is: DRY etc.):	Foundation Wall	Thickness: Unit: INCHES Dos/Drains? Water In Sump?: NO alled? Mitigation System On		
Foundation Wall Material: Floor penetrations? Describe Floor Penetrations? Wall penetrations? Describe Wall Penetrations Basement is: FINISHED Describe Foundation Condition (cracks, seepage, example Foundation System Installed? Heating/Cooling/Ventilation Systems Heating System: FORCED AIR	ent is: DRY etc.):	Foundation Wall	Thickness: Unit: INCHES Dos/Drains? Water In Sump?: NO Mitigation System On Central A/C Present?		



New York State Department of Environmental Conservation

		PI	RODUCT INVEN	TORY		
Building Nan	ne: Stanton Cleaners		Bldg Code	: Date:	9-1-2017	2/211
Bldg Address	: 122 Cutter Mill Roa	d		Apt/Suit	e No: 3A	
Bldg City/Sta	te/Zip: Great Neck NY,	11021			63	
Make and Mo	odel of PID: MiniRae 3000			Date of Calibration:	2/21/1	8
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
croset	boryers tonet burgs	1202.	V		0.0	
	DAP COUR	10.1	VO		0,0	
	NCL Trigger	1 quut	Ù		0,6	
	FCD Clear 1 En 22	194100	U		0,0	
	glass + multisultage	1.34 Dallars	V		0,0	Г
	Ridguors CLYSTON CIENT		V		100 H	5 _
	ECP HEAVY DUTY STIPPER	5-301 bucket	UO		0.0	Г
	HI-NOIN	1-901	V		0,0	Г
\\frac{1}{2}	MINWOX WOOD FINISH	1-901	V		0.0	Г
blod Com	1 01	1005.	V		0.0	Г
				-		Г
						_

	3	
Product Inventory Complete?	Were there any elevated PID readings taken on site? No	Products with COC?

^{*} Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

^{**} Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



New York State Department of Environmental Conservation

Site Name: Stanton Cleaners Site Code: 130072 Operable Unit:
Building Code: Building Name: Stanton Cleaners
Address: 122 Cutter Mill Road Apt/Suite No: 3A
City: Great Neck State: NY Zip: 11021 County: Nassau
Factors Affecting Indoor Air Quailty
Frequency Basement/Lowest Level is Occupied?: FULL TIME Floor Material: LINOLEUM/VINYL
Inhabited?
Alternate Heat Source: NONE Is there smoking in the building?
☐ Air Fresheners? Description/Location of Air Freshener:
☐ Cleaning Products Used Recently?: Description of Cleaning Products: Fabuloso; Windex 1950(
Cosmetic Products Used Recently?: Description of Cosmetic Products:
New Carpet or Furniture? Location of New Carpet/Furniture: New Linoleum ○ September 2016
Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: No
Recent Painting/Staining? Location of New Painting:
Solvent or Chemical Odors? Describe Odors (if any): No
☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:
X Recent Pesticide/Rodenticide? Description of Last Use: 1 every 3 months
Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality: LYSO SPROY USS USED IN ECOSSTOOM Where Souther LIHA-IA3 Was LOUSED JULIO \$ 24- Lour sample Period.
Any Prior Testing For Radon? If So, When?:
Any Prior Testing For VOCs? If So, When?:
Sampling Conditions
Weather Conditions: SUNNY Outdoor Temperature: 50 °F
Current Building Use: DAY CARE Barometric Pressure: in(hg)
Product Inventory Complete? Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Sampling Information Sampler Name(s): Daniel Prisco-Buxbaum	Building Code:		Address: 122	Cutter Mill Road	Great Neck N	IV 11001
Sample Collection Date: Feb 21, 2018 Sample Collection Date: Feb 21, 2018 Sample Chain of Custody Number: SUMMA Canister Information Sample ID: LIHA IAI LIHA IA	Sampling Inform	ation			order Neck , N	1 11021
Sample Collection Date: Feb 21, 2018 Sample Chain of Custody Number: SUMMA Canister Information Sample ID: LIHA-IAI L	Sampler Name(s):	Daniel Prisco	-Buxbaum	Sampler Co		
SUMMA Canister Information Sample ID: LIHA-IAI	Sample Collection Da					*
SUMMA Canister Information Sample ID: LIHA-IAI	Sample Chain of Cus	tody Number:				
Sample ID: LIHA-IAN IIHA-IAN LIHA-IAN IIHA-IAN LIHA-IAN L	SUMMA Canister	Information		Outdoor Air	Sample Location ID:	
Location Code: Location Type: Basement Basement First Floor Outdoor Canister ID: 10/107 10/16 10/16 10/18			TITHA TO	ALP		
Location Type: BASEMENT BASEMENT FIRST FLOOR OUTDOOR Canister ID: \(\frac{10\cappa_0}{\cappa_0} \) \(\fra		P+1111, TUI	LYLI4-TVI	LTHA-IAZ	LIHA-IA3	LEHA-DAI
Canister ID: 10 40 5 10 407 10 266 1478 10 488 Regulator ID: 10 50 1 10 76 11 10 76						
Regulator ID: 10501		- 11		BASEMENT	FIRST FLOOR	OUTDOOR
Matrix: Indoor Air Ind				10266	10493	10788
Sampling Method: SUMMA AIR SAMPLI SUMMA AIR SA SUMMA AIR	the control of the co		1090	10766	10478	
Sampling Area Info Slab Thickness (inches): Sub-Slab Material: Sub-Slab Moisture: Seal Type: Seal Adequate?: Vacuum Gauge Start: Vacuum Gauge End: Vacuum Gauge End: Vacuum Gauge Unit: Sample QA/QC Readings Sample QA/QC Readings Sample QA/QC Readings Purge PID Reading: Cyanga AIR SA SUMMA A	7.000.000.000.000.000	Indoor Air	Indoor Air	Indoor Air	Indoor Air	,
Sampling Area Info Slab Thickness (inches): Sub-Slab Material: Sub-Slab Moisture: Seal Type: Seal Adequate?: X Sample Times and Vacuum Readings Sample Start Date/Time: Vacuum Gauge Start: Vacuum Gauge Start: Vacuum Gauge End: Vacuum Gauge End: Vacuum Gauge End: Vacuum Gauge Unit: In (hg) In (hg) In (hg) In (hg) Purge PID Unit: Purge PID Unit: Tracer Test Pass:			SUMMA AIR S	SUMMA AIR SA	SUMMA AIR SA	
Sub-Slab Material: Sub-Slab Moisture: Seal Type: Seal Adequate?: Xample Times and Vacuum Readings Sample Start Date/Time: Yacuum Gauge Start: Yacuum Gauge End: Yacuum Gauge End: Yacuum Gauge End: Yacuum Gauge Unit: In (hg) In (hg) In (hg) In (hg) Purge PID Unit: Tracer Test Pass:	Sampling Area Inf	ō				TILLY SIA
Sub-Slab Moisture: Seal Type: Seal Adequate?: Sample Times and Vacuum Readings Sample Start Date/Time: 1/1/14/1/1/55 2/1/14/1/55 2/1/1	Slab Thickness (inches):	5				
Seal Type: Seal Adequate?: Sample Times and Vacuum Readings	Sub-Slab Material:					-
Seal Adequate?: Sample Times and Vacuum Readings Sample Start Date/Time: Vacuum Gauge Start: Vacuum Gauge Start: Vacuum Gauge End: Vacuum Gauge End: Vacuum Gauge End: Vacuum Gauge Unit: In (hg) In (hg) In (hg) In (hg) In (hg) Purge PID Reading: O.O.	Sub-Slab Moisture:					
Sample Times and Vacuum Readings Sample Start Date/Time: 2/11/14 / 11:55	Seal Type:					
Sample Start Date/Time: 2/11/14/11/55 2/11/14/14/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/14/11/55 2/11/14/14/14/14/14/14/14/14/14/14/14/14/	Seal Adequate?:	\times				
Sample Start Date/Time: 2/11/14/11/55 2/11/14/14/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/11/55 2/11/14/14/14/11/55 2/11/14/14/14/14/14/14/14/14/14/14/14/14/	Sample Times and	Vacuum Readings	_			
Vacuum Gauge Start: 7-30 7-30 >-30 >-30 >-30 >>-30				5/51/		
Sample End Date/Time: 2/22/18 / 8:58 2/22/18 / 14:15 2/22/18 / 12:36 Vacuum Gauge End: -4 -6 -8 -7 -7 Sample Duration (hrs):			-		2/21/18/11:29	2121/18/12:30
Vacuum Gauge End:						2-30
Sample Duration (hrs): Vacuum Gauge Unit: in (hg) in (hg) in (hg) in (hg) in (hg) Sample QA/QC Readings Sapor Port Purge: Purge PID Reading: O.O O.O O.O O.O Purge PID Unit: Tracer Test Pass:		0.00	122/18/8.58		2/22/18/11:71	2/22/18/12:36
Vacuum Gauge Unit: in (hg) in (hg) in (hg) in (hg) in (hg) in (hg) Sample QA/QC Readings Sapor Port Purge: Purge PID Reading: O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O	_		-6	-8	-7	-7
Fample QA/QC Readings Sapor Port Purge: Purge PID Reading: O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O	2011 AV					
Purge PID Reading: O.O O.O O.O O.O Purge PID Unit: Tracer Test Pass:	_		in(hg)	in(hg)	in(hg)	in(hg)
Purge PID Reading: O.O O.O O.O O.O O.O Tracer Test Pass:		uings	_			
Purge PID Unit: Tracer Test Pass:						
Tracer Test Pass:		0.0	0.0	0,0	0.0	0.0
Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM						
	Sample start a	nd end times should	be entered using	the following forma	at: MM/DD/YYYY I	HH:MM

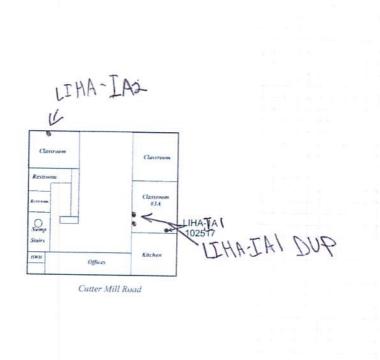


New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level . The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

BorF	Boiler or Furnace	0	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	XXXXXXX	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	• SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	• IA-1	Location & label of indoor air samples
S	Sumps	• OA-1	Location & label of outdoor air samples
@	Floor Drains	• PFET-1	Location and label of any pressure field test holes.

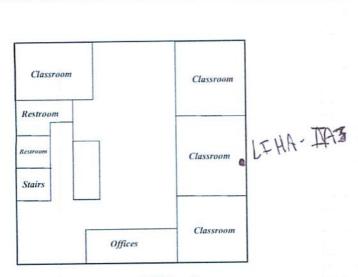


New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Cutter Mill Road

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

BorF	Boiler or Furnace	0	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	XXXXXXX	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	• ss-1	Location & label of sub-slab samples
W/D	Washer / Dryer	• IA-1	Location & label of indoor air samples
S	Sumps	• OA-1	Location & label of outdoor air samples
@	Floor Drains	• PFET-1	Location and label of any pressure field test holes.

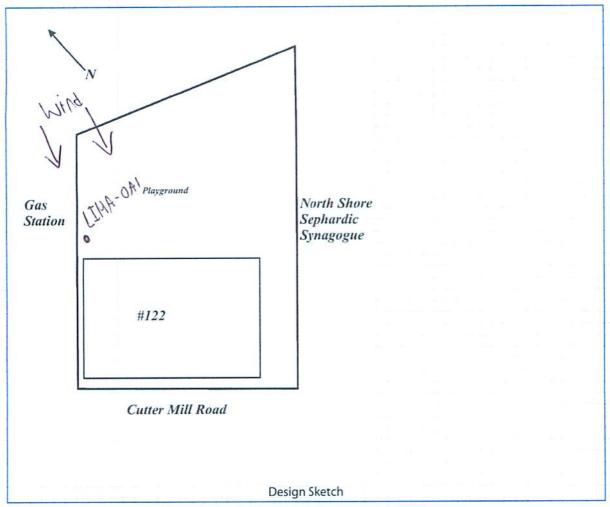


New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketc
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

BorF	Boiler or Furnace	0	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	XXXXXXX	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	• SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	• QA-1	Location & label of outdoor air samples
@	Floor Drains	• PFET-1	Location and label of any pressure field test holes.

Appendix I DUSR, February 2018 Indoor Air Samples

Data Validation Services

120 Cobble Creek Road P.O. Box 208 North Creek, NY 12853

Phone 518-251-4429 harry@frontiernet.net

May 15, 2018

Justin Starr HDR 16 Corporate Woods Blvd Suite 204 Albany, NY 12211

RE:

Data Usability Summary Report (DUSR) of Stanton Cleaners Site Data Packages Chemtech Labortories Alpha Analytical SDG No. J1696

Dear Mr. Starr:

Review has been completed for the data package generated by Chemtech Laboratories that pertains to the analyses of air samples collected 02/21/18 at the Stanton Cleaners site. Four 6- L summa canister air samples and a field duplicate were analyzed for volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the 2006 USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate Standard Recoveries
- * Internal Standard Recoveries
- * Laboratory Duplicate Correlations
- * Field Duplicate Correlations
- * Method and Canister Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable either as reported or with minor qualification.

The laboratory sample identifications and validation qualifier definitions are attached to this text. Also included in this report is the laboratory EQuIS EDD, with validation qualifiers and edits made in red.

Volatile Analyses by EPA TO-15

Holding times were met, internal standard responses are acceptable, and instrument tunes meet fragmentation requirements.

Due to presence in the associated method blank, the detections of methylene chloride in all samples except LIHA-IA1-DUP are considered external contamination and edited to reflect non-detection. This includes the parent sample of that duplicate.

LCSs show acceptable recoveries, with the exceptions of those for dichlorodifluoromethane (161%) and tert-butyl alcohol (64%). Results for those two analytes in the samples have been qualified as estimated in value.

The field duplicate correlations of LIHA-IA1 are acceptable. With the exception of those for t-butyl alcohol, methylene chloride, cyclohexane, n-hexane, and toluene. Results for those two compounds in that parent sample and the duplicate have been qualified as estimated in value.

Laboratory duplicate correlations of LIHA-IA2 were acceptable.

Due to interferences in the mass spectra, the hexane detections in the following samples are qualified/edited as indicated:

- LIHA-IA3 to non-detection
- LIHA-OA1 as tentative in identification and estimated in value
- LIHA-IA1 and LIHA-IA1-DUP as estimated in value

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses were compliant.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC The results do not meet all criteria for a confirmed identification.

 The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code		BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
LIHA-IA2	J1696-01	TO-15					
LIHA-IA1	J1696-02	TO-15		-			
LIHA-IA1- DUP	J1696-03	TO-15					
LIHA-IA3	J1696-04	TO-15					
LIHA-OA1	J1696-05	TO-15		~~~			

Appendix J

DUSR, January 2018 Emerging

Contaminant Aqueous Samples

Data Validation Services

120 Cobble Creek Road P.O. Box 208 North Creek, NY 12853

Phone 518-251-4429 harry@frontiernet.net

October 2, 2018

Michael Lehtinen HDR 16 Corporate Woods Blvd Suite 204 Albany, NY 12211

RE:

Data Usability Summary Report (DUSR) of Stanton Cleaners Site Data Packages TestAmerica Laboratories SDG Nos. 320-35137, 320-35294, 460-148719, 460-148827, and 460-148869

Dear Mr. Lehtinen:

Review has been completed for the data packages generated by TestAmerica Laboratories that pertain to the analyses of aqueous samples collected between 01/18/18 and 01/22/18 at the Stanton Cleaners site. Eight samples and a field duplicate were analyzed for for per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. Two additional samples were processed for 1,4-dioxane. Equipment and bladder blanks were also processed. The analytical methods utilized are USPA 8270D SIM and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national data review guidance documents, in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate/Isotopic Standard Recoveries
- * Internal Standard Recoveries
- * Laboratory Duplicate Correlations
- * Field Duplicate Correlations
- * Method, Equipment, and Bladder Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable either as reported or with minor qualification.

Data completeness, accuracy, precision, representativeness, and comparability are acceptable.

Sample identifications and validation qualifier definitions are attached to this text. Also included in this report are the laboratory EQuIS EDDs, with validation qualifiers and edits made in red.

The laboratory report forms within the data packages improperly show method detection limits (MDLs) as reporting limits. The EDDs show the proper reporting limit concentrations, but improperly show MDLs as PQLS.

Chain-of-Custody/Sample Receipt

The initial relinquish date and time are not present on the custody form for the samples collected 01/18/18.

1,4-Dioxane Analyses by USEPA Method 8270D SIM

Holding time requirements were met. Sample surrogate and internal standard recoveries are compliant. Calibration standards show responses within the validation guidelines. Blanks show no contamination.

The matrix spike evaluation of EPA-MW-23-011918 shows recoveries and correlations within laboratory acceptance ranges.

The field duplicate correlations at location ST-MW-16 are acceptable.

PFAS by Modified EPA Method 537

PFAS compounds are at times identified by their common acronyms in this report. The data package report forms reference both the technical names and the acronyms.

Method, bladder, and equipment blanks consistently show low level responses of PFBA and PFHxS. Therefore, the field sample detections of these analytes that are within fivefold concentration of the associated blanks are considered external contamination and edited to reflect non-detection.

Internal and surrogate standards recoveries are within the laboratory acceptance ranges.

The matrix spike evaluation of EPA-M-23-011918 shows recoveries and correlations within laboratory acceptance ranges.

The field duplicate correlations at location ST-MW-16 are acceptable. LCS recoveries are within the laboratory acceptance ranges.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC The results do not meet all criteria for a confirmed identification.

 The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample Identifications

Client: New York State D.E.C.

Project/Site: DEC Stanton Cleaners; Site: 130072

Collected Received

TestAmerica Job ID: 320-35237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-35237-1	BB-EPA-MW-23-011918	Water	01/19/18 08:15	01/20/18 10:10
320-35237-2	EB-PUMP1-011918	Water	01/19/18 08:30	01/20/18 10:10
320-35237-3	BB-ST-MW-16-011918	Water	01/19/18 08:55	01/20/18 10:10
320-35237-4	EB-PUMP2-011918	Water	01/19/18 09:05	01/20/18 10:10
320-35237-5	ST-MW-16-011918	Water	01/19/18 10:47	01/20/18 10:10
320-35237-6	EPA-MW-23-011918	Water	01/19/18 10:55	01/20/18 10:10
320-35237-7	DUPLICATE1-011918	Water	01/19/18 00:00	01/20/18 10:10
320-35237-8	BB-ST-MW-19-011918	Water	01/19/18 11:41	01/20/18 10:10
320-35237-9	ST-MW-19-011918	Water	01/19/18 14:05	01/20/18 10:10

TestAmerica Sacramento

Client: New York State D.E.C.

Project/Site: DEC Stanton Cleaners; Site: 130072

Lab Sample ID	Client Sample ID	Matrix	Collected Receive
320-35294-1	BB-ST-MW-15-012218	Water	01/22/18 09:55 01/23/18 0
320-35294-2	BB-EPA-MW-26-012218	Water	01/22/18 09:50 01/23/18 0
320-35294-3	EPA-EXT-02-012218	Water	01/22/18 09:40 01/23/18 0
320-35294-4	BB-ST-MW-18-012218	Water	01/22/18 07:55 01/23/18 0
320-35294-5	ST-MW-20-012218	Water	01/22/18 08:47 01/23/18 0
320-35294-6	ST-MW-18-012218	Water	01/22/18 09:00 01/23/18 0
320-35294-7	BB-ST-MW-20-012218	Water	01/22/18 07:50 01/23/18 0
320-35294-8	EPA-MW-26-012218	Water	01/22/18 10:55 01/23/18 0
320-35294-9	ST-MW-15-012218	Water	01/22/18 11:10 01/23/18 0

TestAmerica Job ID: 320-35294-1

Client: New York State D.E.C.

Project/Site: DEC Stanton Cleaners; Site: 130072

TestAmerica Job ID: 460-148719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-148719-1	EPA-CL-4S-011818	Water	01/18/18 12:29	01/18/18 19:40
460-148719-2	EPA-CL-4D-011818	Water	01/18/18 14:20	01/18/18 19:40

Client: New York State D.E.C.

Project/Site: DEC Stanton Cleaners; Site: 130072

TestAmerica Job ID: 460-148827-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
460-148827-1	EB-PUMP1-011918	Water	01/19/18 08:30 01/19/18 19:20
460-148827-2	St-MW-16-011918	Water	01/19/18 10:47 01/19/18 19:20
460-148827-3	Duplicate1-011918	Water	01/19/18 00:00 01/19/18 19:20
460-148827-4	EPA-MW-23-011918	Water	01/19/18 10:55 01/19/18 19:20
460-148827-5	ST-MW-19-011918	Water	01/19/18 14:05 01/19/18 19:20

Client: New York State D.E.C.

Project/Site: DEC Stanton Cleaners; Site: 130072

TestAmerica Job ID: 460-148869-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
460-148869-1	EPA-EXT-02-012218	Water	01/22/18 09:40 01/22/18 19:05
460-148869-2	ST-MW-20-012218	Water	01/22/18 08:47 01/22/18 19:05
460-148869-3	ST-MW-18-012218	Water	01/22/18 09:00 01/22/18 19:05
460-148869-4	EPA-MW-26-012218	Water	01/22/18 10:55 01/22/18 19:05
460-148869-5	ST-MW-15-012218	Water	01/22/18 11:10 01/22/18 19:05