

Monthly Operations and Monitoring Report

April 2006

Site:

Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

Prepared for:

Environmental Chemical Corporation
1293 Broad Street, Suite 200
Bloomfield, New Jersey 07003

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Richmond, Virginia 23228

May26 , 2006

ET Project No. 70536.02.01.02

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ET Project No. 70536.02.01.02

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Date: May 26, 2006

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1.0 INTRODUCTION

This Monthly Operations and Monitoring Report, April 2006 (Monthly Report) has been prepared by Earth Tech, Inc., as a subcontractor to Environmental Chemical Corporation (ECC), under Contract No.5442-001-001.

The Stanton Cleaners Area Groundwater Contamination (Stanton) site is located at 110 Cutter Mill Road in Great Neck, Nassau County, New York. The Stanton Cleaner Property (SCP) is approximately ¼ acre in size and includes a two-story building in which a dry-cleaning business operates and an adjacent one-story boiler/storage building as well as a two-story treatment building. The site is bordered by an indoor tennis facility, a synagogue and school facility.

Improper handling and disposal of spent dry cleaning solvents, including Tetrachloroethylene (PCE), resulted in the release of hazardous substances at the site. PCE migrated from the site's subsurface soils into the indoor air environments of the surrounding buildings and into groundwater beneath the site, resulting in a significant threat to human health.

In 1983, approximately 20 cubic yards of PCE-contaminated soil was removed from behind the Stanton Cleaners property.

In 1989, a groundwater extraction and treatment system was installed by the original Site operator to address groundwater contamination which resulted from improper disposal of spent PCE behind the SCP building. This system is not currently operational.

In 1998, the New York State Department of Environmental Conservation (NYSDEC) funded the construction of a new air stripper treatment system for the WAGNN water supply wells, which are impacted by contamination from the Site. This treatment system is currently in operation. In October 1998, as an immediate response action, the EPA installed a temporary soil vapor interceptor system, adjacent to the tennis club, to mitigate impacts from PCE vapors to the indoor air of this facility.

In 2001, the EPA completed the construction and installation of a soil vapor extraction (SVE) system and a ground water treatment (GWT) system on the SCP. Both the SVE and GWT systems are housed in the treatment building that was constructed on the SCP. The SVE was installed to remediate the VOC-contaminated soils, thus reducing the indoor air contamination in the adjacent affected buildings to safe levels. The GWT system was installed to remediate the VOC-contaminated groundwater and to remove the threat of vapors through the Site soils. Both systems are currently operating at the Site. The collected VOC-contaminated vapors and groundwater from both systems are treated through separate granular activated carbon (GAC) systems.

The site is presently under the jurisdiction of the Remedial Branch of the USEPA, Region II; USACE provides oversight to USEPA for the remedial action and the long-term remedial action programs. ECC provides oversight to the USACE to perform long-term remediation actions. Earth Tech, as a subcontractor to ECC, provides support on the following tasks as described in the Work Plan:

- Operation and maintenance (O&M) of the GWTS and SVE, including sampling and reporting;
- Sampling of monitoring wells associated with the site in order to track the migration of the contaminant plume, along with reporting.

- Sampling of indoor air quality of buildings adjacent to the site in order to identify all the adjacent buildings being impacted by site related contaminants and the effectiveness of the remedial actions being instituted at the site.

All work under this contract is performed in accordance with the following documents:

- Work Plan for Long-Term Remedial Action Support;
- Site-Specific Health and Safety Plan (HASP), dated July 23, 2001 (Revised February 3, 2003) and
- Sampling Quality Assurance Project Plan (SQAPP) dated August 22, 2000.

As required by the Scope of Work for this project, monthly summary reports are prepared to document and summarize the activities taking place. These reports provide a concise description of work performed during the reporting period and include pertinent deliverables as appendices. This monthly summary report covers the period between April 1 and April 30, 2006.

2.0 SUMMARY OF ACTIVITIES DURING APRIL 2006

The following list summarizes activities performed and milestone dates under this contract during the reporting period, April 1 through April 30, 2006:

- April 4 – O&M Inspection/System Monitoring
- April 4 – Monthly System Sampling
- April 4 – Flex hose at the sub slab at the Long Island Hebrew Academy was replaced with permanent hard piping. The outside piping to the blower was also replaced with hard piping and the blower itself was stabilized
- April 11 – O&M Inspection/System Monitoring
- April 11 – Bi-weekly air monitoring
- April 11 – Change out of carbon filters on the rooftop of the LIHA
- April 18 – O&M Inspection/System Monitoring
- April 18 – The broken actuator for well EPA-EXT-02 was replaced with a working one

Details of system shutdowns and alarms during the month of April 2006 are discussed in section 3.1. Daily Quality Control Reports (DQCRs), which include projected work for the following two weeks, are completed for each day of site activities. Copies of these reports are included as Appendix A.

3.0 GROUNDWATER TREATMENT SYSTEM ACTIVITIES

3.1 Operation and Maintenance

The GWTS treated and discharged 2,799,342.7 gallons during the month of April 2006. The system was operational (recovery well pumps running) for approximately 720 of the 720 hours during the month, for an average operating flow of 64.8 gallons per minute (gpm). The system has treated a total of 124,682,647 gallons since the plant startup in November 2001.

There are currently two recovery wells pumping water into the system (EPA-EXT-02 and EPA-MW-24). EPA-EXT-02 is located in the triangle, the corner of New Cutter Mill Road and Mirrielees Road. Extraction well MW-24 had been pumping from the triangle location until it was turned off and April 20, 2005. Extraction well EPA-EXT-4R was activated on April 20, 2005. EPA-EXT-4R is located in the parking lot directly in front of the Stanton Dry Cleaners building. The decision to turn off extraction well MW-24 and replace it with EPA-EXT-4R in April 2005 was made by the USEPA. Later, in early 2006, based on an evaluation of laboratory analytical results obtained from extraction well EPA-EXT-4R and monitoring well sampling results for monitoring wells located in the area of EPA-MW-24, the decision was made to shut down extraction well EPA-EXT-4R and re-activate EPA-MW-24. Therefore, EPA-EXT-4R was taken offline and EPA-MW-24 was activated on February 2, 2006.

The facility is equipped with a remote monitoring and control system that was accessed a minimum of three times per week, by the lead engineer, during the reporting period to ensure proper system operation and notify response personnel if a problem or abnormal condition was observed. The system also provides remote notification of alarm conditions via automatic e-mail and text messaging.

The Treatment System Operation and Maintenance Checklist were completed during each O&M inspection event and the checklists for April 4, 11 and 18, 2006 are provided in Appendix B. When the system is operational, any abnormal conditions or parameters outside of the normal operating range are addressed by the lead operator and/or monitoring/environmental technician on site (Jim Simmonds or James Kearns). If they require guidance or notes any serious conditions, the inspector notifies the response manager (Tom Williams). The checklists are completed on site and sent to James Kearns for review and scheduling of additional work if needed. Abnormal conditions and/or parameters outside the operating range are addressed, including repairs, cleaning, and continued monitoring.

System operational and alarm conditions are automatically stored by the PLC. This data is downloaded every two weeks. The March 2006 operational data is included in Appendix C. While operational, the system data are within the normal ranges and are consistent with visual observations, with any exceptions as described above.

The effluent flow data table in Appendix C shows daily discharge flows from each day of system operation and cumulative treated water discharge for each day during the reporting period, as well as a summary of total monthly flow and average daily flow since the system was started up in October 2001.

A review of October's Operations and maintenance logs indicated there has been a slight reduction in discharge flow for the P&T system. In an effort to increase the discharge flow, it was determined that the P&T system aqueous phase carbon vessels needed to be placed in parallel in the system treatment train in an effort to reduce back pressure and increase effluent flow. The altering of the piping for the 2-400 pound aqueous phase carbon vessels from series to parallel was performed on November 1, and 2, 2005.

On November 30, 2005 the SVE systems was offline due to a faulty low level sensor in the SVE knockout tank. The sensor was reviewed during the December 19, 2005 O&M inspection and was deemed to be faulty. A new low-level float switch was installed on January 9, 2006.

On January 9, 2006, three drains were installed in the line of SVE 1 so that the line can be drained weekly and so adequate air flow can be obtained at the SVE 1 air sample ports for the bi weekly air monitoring. On January 24, 2006 the drains were replaced with more permanent ball valve drains.

3.2 Sampling and Analysis

3.2.1 Raw and Treated Groundwater

In accordance with the SQAPP, GWTS sampling is conducted on a monthly basis to monitor plant efficiency, to determine whether liquid carbon breakthrough has occurred, and to verify that contract-specific discharge parameters (in accordance with National Pollutant Discharge Elimination System (NPDES) permit equivalency) are met. The combined GWTS influent, along with the GWTS effluent (discharge), will be sampled by the 15th of each month. Collected samples will be shipped to a designated EPA, CLP lab for analysis of TCL volatile organic compounds.

Earth Tech personnel conducted the GWTS influent and effluent sampling for this report period on April 4, 2006. The samples were shipped to the USEP Region II DESA Laboratory, located in Edison, NJ for analysis of low concentration TCL volatile organic compounds. A copy of the full sampling trip report containing the chain of custody forms and FedEx air bill is included in Appendix D. Laboratory analytical results for the GWTS sampling event during this reporting period will be forwarded to ECC under separate cover from the laboratory.

Measurements of influent and effluent pH and turbidity, along with effluent conductivity, are automatically monitored and recorded by the GWTS PLC on a daily basis; this information is included with the downloaded data in Appendix C.

The next GWTS influent / effluent sampling event is scheduled for May 2, 2006.

3.2.2 Process Air Stream Monitoring

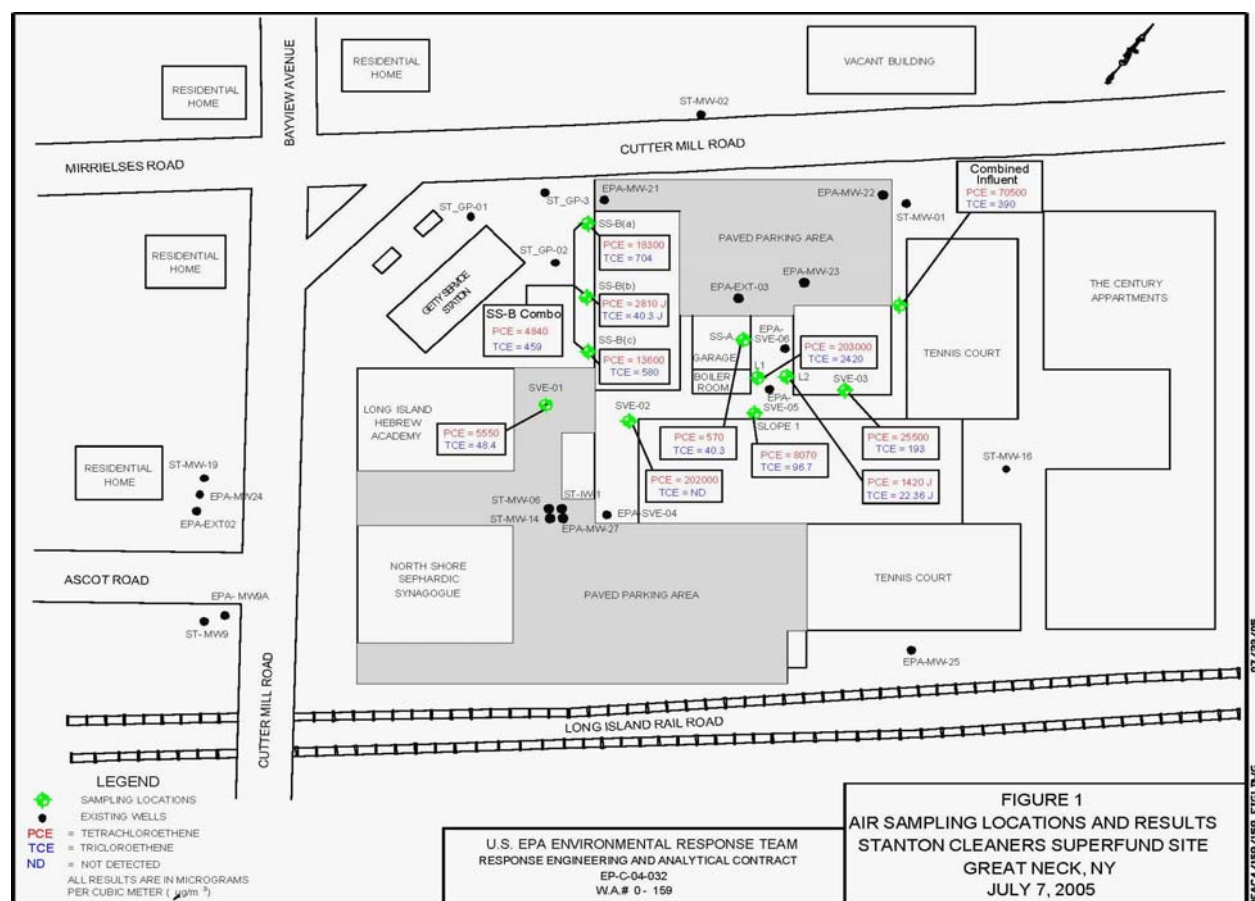
Air monitoring of the SVE and Pump and Treat System is performed on a bi-weekly basis. It includes monitoring for VOCs, air velocity, temperature, humidity, dew point, vacuum pressure and other parameters, as specified in the O&M manual. Air monitoring is performed at the following locations within the system:

- Combined SVE - Influent (pre-treatment),
- Post groundwater Air-Stripper (pre-treatment),
- Post vapor phase carbon vessel 1 – Air Stripper air discharge (post-treatment),
- Post vapor phase carbon vessel 2 – SVE air discharge (post-treatment),
- Sub-slab monitoring points (pre-treatment),
- SVE wells EPA-SVE-1 through EPA-SVE-4 (Shallow and Medium depth)

On October 3, 2005, following a review of the REAC SVE System Air Sampling Results for the event performed on July 7, 2005, the active SVE recovery wells were modified in an effort to maximize contaminant recovery rates. Details of the modifications to the active SVE wells prior to and post October 3, 2005 are included in the table below.

SVE Location	Prior to 10/3/05	After 10/3/05
SVE 1	Shallow On	Shallow and Intermediate On
SVE 2	Shallow On	Shallow On
SVE 3	Shallow On	Shallow On
SVE 4	Off	Off
EPA-SVE-4R	On	On
SSA	On	On
SSB-A	On	On
SSB-B	On	Off
SSB-C	On	On
L1	On	On
L2	On	Off

In addition to modifying the active SVE locations, the names of each location were altered in an effort to stay consistent with REAC's nomenclature. Future weekly monitoring logs will be consistent REAC's sample numbers. The laboratory analytical results for REAC's sampling of the SVE locations, performed on July, 7, 2005 are included in the figure below (please note the results in the figure are reported in micrograms per cubic meter).



Additional evaluation/enhancement of the SVE recovery rates is ongoing and the installation of several SVE sample port locations was performed on November 1 and 2, 2005. On January 9, 2006, two more

SVE sample port locations were installed in the line of SVE 3. The bi-weekly air monitoring logs are included in Appendix F. Estimated PCE removal rates for the SVE system are presented in Table 1. A Graph showing the estimated PCE removal rate trend over time is presented in Figure 2. The next bi-weekly air-monitoring event is scheduled for May 4, 2006.

4.0 MONITORING WELL SAMPLING

Groundwater samples from select monitoring wells both on and off-site are collected on a quarterly basis and shipped to a designated EPA, CLP lab for analysis. Groundwater sampling activities are performed in accordance with the USEPA Groundwater Sampling SOP #2007 and the USEPA Low-Stress Purging and Sampling SOP provided in the SQAPP. Each quarterly sampling event is coordinated with the local water authority to schedule the event when local water supply drawdown conditions do not impact the measurements. The location and number of monitoring wells as well as analytical parameters will be determined before each event by the USPEA, USACE, and ECC.

The first semi-annual groundwater sampling event of 2005 was conducted by Earth Tech personnel on February 7 through 11, 2005. A total of 25 groundwater monitoring wells were sampled for analysis of the presence of TCL volatiles only. A copy of the full sampling trip report containing the chain of custody forms and FedEx air bills is included in Appendix D.

The second semi-annual groundwater sampling event was performed the week of August 29, 2005. It included sampling 29 monitoring wells, 15 of which had natural attenuation parameter analyses. Laboratory analytical results for this semi-annual groundwater sampling event were sent directly to ECC under separate cover from the laboratory. The next groundwater monitoring well sampling event is scheduled for the week of May 22, 2006. Below is a list of monitoring wells that will be sampled (per RPM selection/request). Also below is a list of monitored well samples that will be further analyzed for monitoring and natural attenuation parameters.

Well to be Sampled

- 1) ST-MW-02,
- 2) EPA-MW-22,
- 3) EPA-MW-21,
- 4) ST-MW-15,
- 5) ST-MW19,
- 6) ST-MW-12,
- 7) CL-1D
- 8) EPA-MW-26
- 9) EPA-MW-23
- 10) ST-MW-14
- 11) EPA-MW-27
- 12) EPA-MW-9A
- 13) ST-MW11
- 14) EPA-MW29
- 15) CL-4D
- 16) ST-MW-20 (as a back-up only in the event another well cannot be sampled)
- 17) ST-MW-17 (as a back-up only in the event another well cannot be sampled)

Monitoring & Natural Attenuation Parameter Wells

- 1) CL-1D
- 2) EPA-MW-29

- 3) STMW-20
- 4) EPA-MW-26
- 5) EPA-MW-27
- 6) STMW-17
- 7) STMW-12
- 8) ST-MW-19
- 9) EPA-MW-21
- 10) And EPA-MW-9A (as a back-up only in the event another well cannot be sampled)

5.0 PLUME PERIMETER MONITORING

Groundwater level measurements are obtained from both on-site and offsite wells once a month in order to evaluate capture zone(s) around the groundwater extraction wells. The event is coordinated with the local water authority so the event can be scheduled when the local water supply drawdown conditions will have minimal impact to the measurements.

Water level measurements were collected on May 2, 2006. The location and number of monitoring wells was determined by the USEPA based on the site Capture Zone Analysis Plan. Groundwater level measurements for May 2, 2006 and historical groundwater level measurements are provided in Appendix H.

6.0 INDOOR AIR QUALITY SAMPLING

Indoor air quality samples from select locations within the treatment building and buildings along the perimeter of the site are collected using summa canisters on a quarterly basis and shipped to a laboratory for analysis. The location and number of indoor air quality samples to be collected as well as analytical parameters are determined by the USEPA, USACE and ECC.

The last indoor air quality sampling event was conducted on September 20 and 21, 2005 by Earth Tech personnel. This sampling event was conducted to address air quality issues within the Long Island Hebrew Academy. The next indoor air sampling event is planned for May 2006.

7.0 FUTURE EVENTS PLANNED

The following scheduled events are planned (or have since occurred) during the next three reporting periods:

- Continue to perform GWTS inspection and maintenance as required;
- Continue to perform bi-weekly system air monitoring;
- Collect system influent and effluent samples as directed by USACE/ECC/USEPA;
- Obtain groundwater level measurements as directed by USACE/ECC/USEPA;
- Collect groundwater samples from monitoring wells as directed by USACE/ECC/USEPA (Planned for week of May 22, 2006);
- Collect indoor air quality samples as directed by USACE/ECC/USEPA (Planned for May 2006);
- Revise O&M manual to reflect changes to GWP&T carbon vessel set-up (April 2006);
- Review aqueous and SVE vapor phase carbon change out schedule (review performed in December 2005, to be changed out in June 2006)

- Change out of carbon in indoor air filters inside the Stanton treatment building

8.0 PROBLEM AREAS AND RECOMMENDED SOLUTIONS (OUTSTANDING ISSUES)

The altering of the piping for the 2-400 pound aqueous phase carbon vessels from series to parallel was performed in November 2005. A review of flow rates indicated the effluent flow has increased from approximately 60 gpm to 72 gpm following the change. Action List of ongoing and completed items is provided in Appendix J to track work tasks that have been targeted as issues to be addressed.

Monthly O&M performed on November 29, 2005 indicated the low level float switch for the SVE system knockout tank was not functioning. Further inspection performed in December 2005 indicated a replacement was required. A replacement low level float switch was installed on January 9, 2006.

Tables

TABLE 1
ESTIMATED PCE RECOVERY RATES
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
250 CFM SVE SYSTEM
September 2003 - April 2006

Date	# of Days	Flow Rate		VOC			
			Avg	Concentration	Average	Discharge Rate	Total Discharge
		(cfm)	(cfm)	(ppm)	(ppm)	(lbs/day)	(lbs)
9/11/2003	1	225	225	4.2	4.20	0.6	0.6
9/25/2003	13	210	217.5	4.7	4.45	0.6	7.8
10/8/2003	13	213	211.5	5	4.85	0.6	8.2
10/23/2003	15	210	210	12.2	8.6	1.1	16.7
11/5/2003	13	215	212.5	6.8	9.5	1.2	16.2
11/22/2003	17	211	213	6	6.4	0.8	14.3
12/4/2003	12	205	208	5.9	5.95	0.8	9.2
12/17/2003	13	200	202.5	4	4.95	0.6	8.0
12/30/2003	13	210	205	4	4.95	0.6	8.1
1/15/2004	16	205	207.5	4.1	4.05	0.5	8.3
2/5/2004	SVE System Manually Shutdown Since 1/16/04						
2/12/2004	8	200	200	3.5	3.5	0.4	3.5
2/26/2004	14	205	202.5	5.3	4.4	0.6	7.7
3/10/2004	12	200	202.5	5	5.15	0.6	7.7
3/25/2004	15	199	199.5	5.1	5.05	0.6	9.3
4/13/2004	19	175	187	6.3	5.7	0.7	12.5
4/29/2004	16	170	172.5	6	6.15	0.7	10.5
						Total	148.7

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activities.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

$$M_{air} = Q_{air} \times C_{air} \times \frac{0.0283 \text{ m}^3}{\text{ft}^3} \times \frac{1440 \text{ min}}{\text{day}} \times \frac{2.2 \text{ lbs}}{1000000 \text{ mg}}$$

$$C_{air} \text{ (mg/m}^3\text{)} = \frac{\text{Conc (ppmv)}}{1\text{E}+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{\text{m}^3} \times \frac{1000 \text{ mg}}{\text{g}} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Fahrenheit (0 degrees Celsius), the conversion is (1 mole air)/(22.4 L).

TABLE 1 (continued)
ESTIMATED PCE RECOVERY RATES
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
250 CFM SVE SYSTEM
September 2003 - April 2006

Date	# of Days	Flow Rate		VOC			
		(cfm)	Avg (cfm)	Concentration (ppm)	Average (ppm)	Discharge Rate (lbs/day)	Total Discharge (lbs)
5/13/2004	14	150	160	6	6	0.6	8.3
5/30/2004	17	147	148.5	5.9	5.95	0.5	9.3
6/10/2004	11	150	148.5	4.4	5.15	0.5	5.2
6/30/2004	20	145	147.5	5.6	5	0.5	9.1
7/8/2004	8	140	142.5	4.9	5.25	0.5	3.7
7/22/2004	14	139	139.5	4.8	4.85	0.4	5.8
8/9/2004	18	140	139.5	3.1	3.95	0.3	6.1
8/31/2004	1	135	137.5	3	3.05	0.3	0.3
9/8/2004	8	120	127.5	2.9	2.95	0.2	1.9
9/30/2004	22	121	120.5	3.1	3	0.2	4.9
10/4/2004	5	121	121	2.9	3	0.2	1.1
10/20/2004	15	120	120.5	2.8	2.85	0.2	3.2
11/1/2004	12	121	120.5	3	2.9	0.2	2.6
11/17/2004	16	125	123	4.1	3.55	0.3	4.3
11/29/2004	12	120	122.5	4.2	4.15	0.3	3.8
12/7/2004	8	121	120.5	4.2	4.2	0.3	2.5
12/16/2004	9	120	120.5	4.1	4.15	0.3	2.8
						Total	223.5

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activities.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft^3} \times 1440 \frac{min.}{day} \times 2.2 \frac{lbs.}{1000000 \text{ mg}}$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Fahrenheit (0 degrees Celsius), the conversion is (1 mole air)/(22.4 L).

TABLE 1
ESTIMATED PCE RECOVERY RATES
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
250 CFM SVE SYSTEM
September 2003 – April 2006

Date	# of Days	Flow Rate		VOC			
			Avg	Concentration	Average	Discharge Rate	Total Discharge
		(cfm)	(cfm)	(ppm)	(ppm)	(lbs/day)	(lbs)
1/12/2005	27	120	120	4.5	4.3	0.3	8.6
1/17/2005	5	120	120	4.5	4.5	0.3	1.7
2/9/2005	23	120	120	3.9	4.2	0.3	7.2
2/23/2005	14	120	120	3.5	3.7	0.3	3.8
3/2/2005	7	120	120	3.2	3.35	0.2	1.7
3/16/2005	14	120	120	3.5	3.35	0.2	3.5
4/4/2005	19	120	120	3	3.25	0.2	4.6
4/20/2005	16	120	120	2.9	2.95	0.2	3.5
5/3/2005	13	120	120	3.1	3.00	0.2	2.9
5/19/2005	16	120	120	2.9	3.00	0.2	3.6
6/15/2005	26	120	120	1	1.95	0.1	3.8
6/22/2005	7	270	120	8.3	4.65	0.3	2.4
7/25/2005	33	280	275	8.3	8.30	1.4	46.5
8/9/2005	15	290	285	5	6.65	1.2	17.6
8/24/2005	15	290	290	6	5.50	1.0	14.8
9/7/2005	14	260	275	6.5	6.25	1.1	14.9
9/20/2005	13	260	260	6.8	6.65	1.1	13.9
						Total	378.3

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activities.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft^3} \times \frac{1440 \text{ min}}{day} \times \frac{2.2 \text{ lbs}}{1000000 \text{ mg}}$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Fahrenheit (0 degrees Celsius), the conversion is (1 mole air)/(22.4 L).

TABLE 1
ESTIMATED PCE RECOVERY RATES
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
250 CFM SVE SYSTEM
September 2003 - April 2006

Date	# of Days	Flow Rate		VOC			
		(cfm)	Avg (cfm)	Concentration (ppm)	Average (ppm)	Discharge Rate (lbs/day)	Total Discharge (lbs)
10/3/2005	13	270	265	7.4	7.10	1.2	15.1
10/18/2005	15	240	255	3.7	5.55	0.9	13.1
11/7/2005	20	250	245	1.5	2.60	0.4	7.9
11/29/2005	22	200	225	1.7	1.60	0.2	4.9
12/19/2005	20	305	252.5	14.7	8.20	1.3	25.6
1/4/2006	16	260	282.5	3.4	9.05	1.6	25.3
1/19/2006	15	285	272.5	2.5	2.95	0.5	7.4
1/30/2006	10	275	280	2.2	2.35	0.4	4.1
2/16/2006	17	210	242.5	10.7	6.45	1.0	16.4
2/27/2006	11	275	242.5	2.4	6.55	1.0	10.8
3/23/2006	24	245	260	2.3	2.35	0.4	9.1
4/11/2006	19	245	245	1.6	1.95	0.3	5.6
						Total	523.5

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activities.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "*Elements for Effective Management of Operating Pump and Treatment Systems*" publication.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft.^3} \times 1440 \frac{min.}{day} \times 2.2 \frac{lbs.}{1000000 \text{ mg}}$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

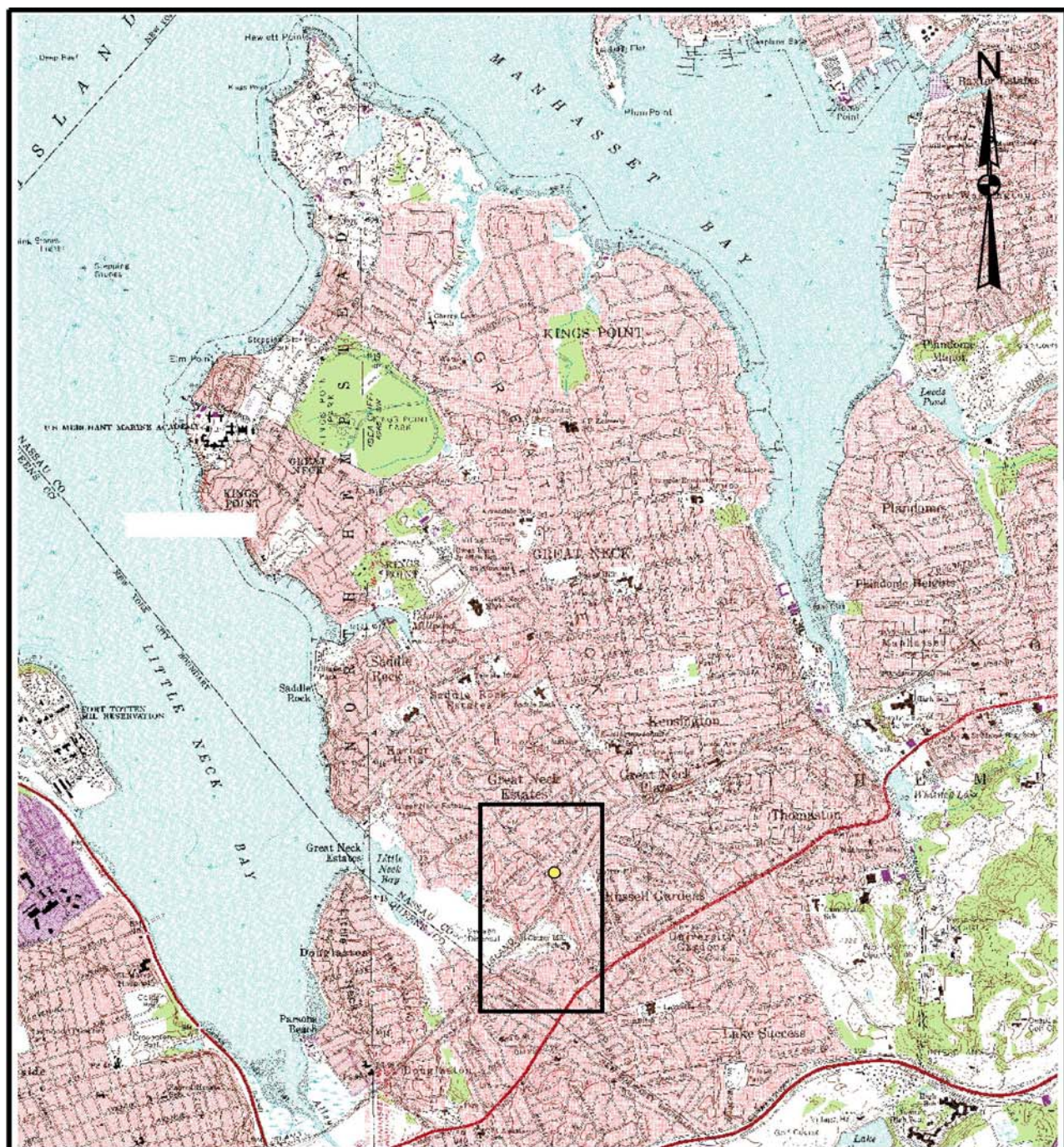
Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Fahrenheit (0 degrees Celsius), the conversion is (1 mole air)/(22.4 L).

Figures



USGS 7.5 Minute Topographic Quadrangle:
Sea Cliff, N.Y., 1968, Photorevised 1979

Legend

- Stanton Cleaners Study Area
- Stanton Cleaners Site

Location Map

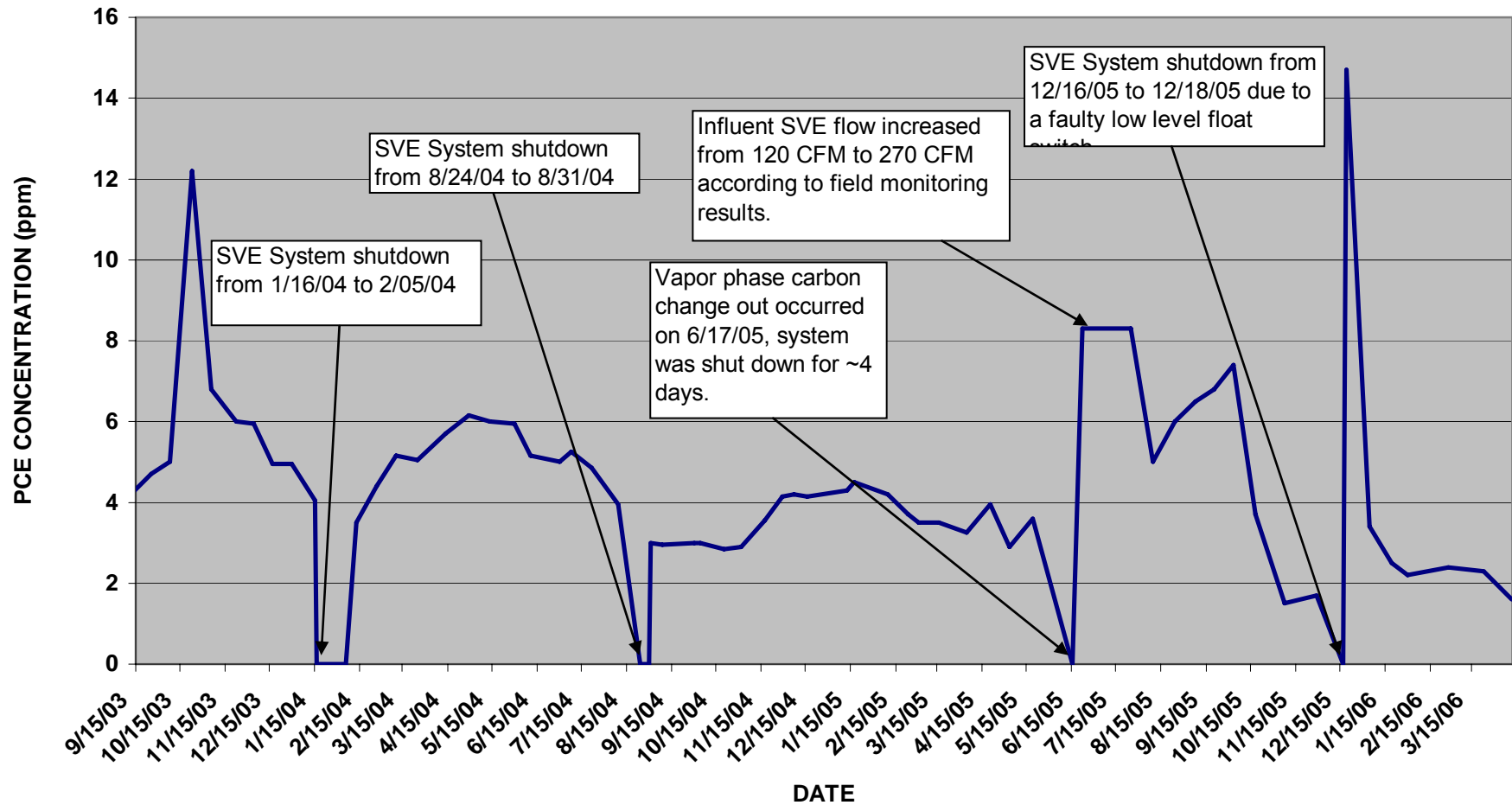


2000 0 2000 4000 Feet

EARTH TECH
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Figure 1
Site Location Map
Stanton Cleaners Area
Groundwater Contamination Site
Stanton Cleaners Area
Groundwater Contamination Site
Great Neck, Nassau County, New York

Figure 2
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
AVERAGE PCE CONCENTRATIONS (ppm)
250 CFM FINAL SVE SYSTEM
September 2003 - April 2006



Appendix A

Daily Quality Control Reports (DQCRs)

DAILY QUALITY CONTROL REPORT

Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY

Client: ECC

Contract No: 5442-001-001

Contractor: Earth Tech, Inc.

Address: 7870 Villa Park Drive, Suite 400
Richmond, Virginia 23228

Phone No.: (804) 515-8300

Date: 4/4/06

Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather			CLOUDY				
Temp.			40°F				
Wind			10-15 MPH GUSTS				
Humidity			50%				

Earth Tech Personnel On-Site: **Robert Derrick, Chuck Fernald**

Subcontractor (include names & responsibilities): N/A

Contract Materials and Equipment on site: **Ford F 150, F-150, bottle ware, general sampling equipment, piping, general hand tools and piping materials**

Work Performed (include sampling; list by NAS number if applicable):

Monthly System Sampling

O and M Inspection

Hard piped the sub slab over at the LIHA from the well to where it goes inside the wall as well as the outside portion (from where it comes out of the wall to where it connects with the blower)

Stabilized the blower

Quality Control Activities (including field calibrations): **Calibration of Horiba**

Health and Safety Levels and Activities: **Level D**

Problems Encountered/Correction Action Taken: **N/A**

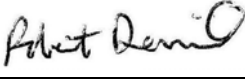
Explain Developments Leading to Change in SOW or Finding of Fact: **N/A**

Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): **N/A**


Have all required submittals and samples of construction been approved? **Yes**

Do the materials and equipment to be used conform to the submittals? **Yes**

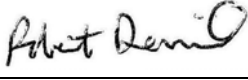
Has all preliminary work been inspected, tested, and completed? **Yes**

DAILY QUALITY CONTROL REPORT	
Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY	
Client: ECC	Contract No: 5442-001-001
Contractor: Earth Tech, Inc.	
Address: 7870 Villa Park Drive, Suite 400	
Richmond, Virginia 23228	
Phone No.: (804) 515-8300	
Date: 4/4/06	Earth Tech Project No.: 70536
Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): N/A	
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan	
Comments and deficiencies noted and corrective actions taken: Explained in work performed section.	
Initial Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken.	
Explained in work performed section.	
Follow-up Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken.	
Special Notes:	
Tomorrow's Expectations:	
Monthly well gauging	
Bi-weekly air monitoring	
Weekly O and M inspection	
Rooftop filter change out at LIHA	
In door air filter carbon change out at Stanton (end of month)	
By: Robert Derrick	Title: Environmental Scientist
Signature: 	(Quality Control Representative/Manager)
The above report is complete and correct. All materials and equipment used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.	
Signature: (Contractor's Authorized Representative)	

DAILY QUALITY CONTROL REPORT							
Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY							
Client: ECC				Contract No: 5442-001-001			
Contractor: Earth Tech, Inc.							
Address: 7870 Villa Park Drive, Suite 400							
Richmond, Virginia 23228							
Phone No.: (804) 515-8300							
Date: 4/11/06				Earth Tech Project No.: 70536			
Day	S	M	T	W	T	F	S
Weather			SUNNY				
Temp.			65°F				
Wind			5-10 MPH				
Humidity			35%				
Earth Tech Personnel On-Site: Robert Derrick, Frank Mahalski, William Pollard							
Subcontractor (include names & responsibilities): N/A							
Contract Materials and Equipment on site: Ford F 150, F-150, MultiRae PID, VelociCalc, air pump, air sample bag, carbon filters, water level meter, general hand tools							
Work Performed (include sampling; list by NAS number if applicable):							
O and M Inspection/System monitoring							
Bi weekly air monitoring							
Change out of the roof-top filters at the Long Island Hebrew Academy							
Water level gauging							
Quality Control Activities (including field calibrations): Calibration of PID							
Health and Safety Levels and Activities: Level D							
Problems Encountered/Correction Action Taken: N/A							
Explain Developments Leading to Change in SOW or Finding of Fact: N/A							
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): N/A							
Have all required submittals and samples of construction been approved? Yes							
Do the materials and equipment to be used conform to the submittals? Yes							
Has all preliminary work been inspected, tested, and completed? Yes							
Test required and inspection techniques to be executed to prove contract compliance (include both expected							

DAILY QUALITY CONTROL REPORT	
Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY	
Client: ECC	Contract No: 5442-001-001
Contractor: Earth Tech, Inc. Address: 7870 Villa Park Drive, Suite 400 Richmond, Virginia 23228 Phone No.: (804) 515-8300	
Date: 4/11/06	Earth Tech Project No.: 70536
and actual results): N/A	
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan	
Comments and deficiencies noted and corrective actions taken: Explained in work performed section.	
Initial Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken. Explained in work performed section.	
Follow-up Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken.	
Special Notes:	
Tomorrow's Expectations:	
Bi-weekly air monitoring	
Weekly O and M inspection	
Change out of carbon in indoor air filters inside Stanton	
Well sampling (week of May 1)	
By: Robert Derrick Title: Environmental Scientist	
Signature:  (Quality Control Representative/Manager)	
The above report is complete and correct. All materials and equipment used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.	
Signature: (Contractor's Authorized Representative)	

DAILY QUALITY CONTROL REPORT							
Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY							
Client: ECC				Contract No: 5442-001-001			
Contractor: Earth Tech, Inc. Address: 7870 Villa Park Drive, Suite 400 Richmond, Virginia 23228 Phone No.: (804) 515-8300							
Date: 4/18/06				Earth Tech Project No.: 70536			
Day	S	M	T	W	T	F	S
Weather			SUNNY				
Temp.			65°F				
Wind			SLIGHT				
Humidity			LOW				
Earth Tech Personnel On-Site: Robert Derrick, Chuck Fernald							
Subcontractor (include names & responsibilities): N/A							
Contract Materials and Equipment on site: F 150, replacement actuator, general hand tools							
Work Performed (include sampling; list by NAS number if applicable):							
Weekly system monitoring and O and M inspection The broken actuator for EPA-EXT-02 was replaced and it was inspected to make sure it was properly working							
Quality Control Activities (including field calibrations): N/A							
Health and Safety Levels and Activities: Level D							
Problems Encountered/Correction Action Taken: N/A							
Explain Developments Leading to Change in SOW or Finding of Fact: N/A							
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): N/A							
Have all required submittals and samples of construction been approved? Yes							
Do the materials and equipment to be used conform to the submittals? Yes							
Has all preliminary work been inspected, tested, and completed? Yes							

DAILY QUALITY CONTROL REPORT	
Site Name and Location: Stanton Cleaners Site (LTRA) – Great Neck, NY	
Client: ECC	Contract No: 5442-001-001
Contractor: Earth Tech, Inc. Address: 7870 Villa Park Drive, Suite 400 Richmond, Virginia 23228 Phone No.: (804) 515-8300	
Date: 4/18/06	Earth Tech Project No.: 70536
Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): N/A	
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan	
Comments and deficiencies noted and corrective actions taken: Explained in work performed section.	
Initial Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken. Explained in work performed section.	
Follow-up Inspection: List all inspections by subject and specification location. Comment and/or deficiencies noted and corrective actions taken.	
Special Notes:	
Tomorrow's Expectations:	
Weekly O and M inspection	
Bi weekly air monitoring	
Monthly system sampling (May 2)	
Quarterly well sampling (week of May 15)	
By: Robert Derrick Title: Environmental Scientist	
Signature:  (Quality Control Representative/Manager)	
The above report is complete and correct. All materials and equipment used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.	
Signature: (Contractor's Authorized Representative)	

Appendix B

Groundwater Treatment System Operation & Maintenance Checklists

4/4/05

**STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND
MAINTENANCE WEEKLY CHECKLIST**

1. A. Is any part of the system leaking? YES ☒ NO
If so, list where. _____
- B. Is there water on the floor? YES ☒ NO
If so, list where. _____
- C. Are all three (3) floor sump level switches in place? ☒ YES NO
- D. Is there any evidence of water in any of these floor sumps? YES ☒ NO
Note: If water is present, remove with shop vac or paper towels.

2. A. Display screen on computer will either show system or screen saver. If screen saver is on, tap screen with finger to show screen. If only the desktop is showing with no system screen, click the *Lookout* – (Stanton) icon on the taskbar at the bottom of the screen.

B. From the site display, monitor and record the following.

Currently MW-24 and EPA-EXT-02 are on

1. Recovery Well EPA-EXT-02 flow¹ _____ 61 _____ GPM
2. Recovery Well EPA-EXT-02 valve open _____ 100 _____ %
3. Recovery Well EPA-EXT-4R flow _____ GPM
4. Recovery Well EPA-EXT-4R valve open _____ %
5. Recovery Well pH _____ 7.2 _____ pH
6. Recovery Well conductivity _____ 91 _____ cond
7. Air Stripper pH _____ 8.5 _____ pH
8. Air Stripper temperature _____ 153 _____ deg.
9. Air Stripper air flow _____ 413 _____ CFM
10. Pre-vapor carbon pressure _____ 0 _____ “wc
11. Post carbon air flow _____ 2774 _____ CFM
12. Discharge conductivity _____ 155 _____ cond
13. Discharge pH _____ 8.7 _____ pH
14. Discharge flow _____ 70 _____ GPM
15. Discharge total gallons _____ 122,216,237 _____ Gal
16. SVE inlet vacuum _____ 2 _____ “Hg
17. SVE air flow _____ CFM

¹ Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

C. From the treatment room, monitor and record the following.

1. Recovery Well EPA-EXT-02 total flow ____ 5,238,047 ____ Gal
2. Recovery Well EPA-EXT-03 total flow ____ ____ Gal
3. Recovery Well pH ____ 6.72 ____ pH
4. Recovery Well conductivity ____ 0.64 ____ cond
5. Air Stripper pH ____ 7.98 ____ pH
6. Air Stripper temperature ____ 15.0 ____ deg. F
7. Air Stripper Pump water flow ____ 72 ____ GPM
8. Air Stripper Pump pressure ____ 30 ____ PSI
9. Discharge conductivity ____ 1.17 ____ cond
10. Discharge pH ____ 8.20 ____ pH
11. SVE inlet vacuum (digital readout) ____ 1.6 ____ "Hg
12. SVE inlet vacuum ____ 2.6 ____ "Hg
13. SVE post knockout vacuum ____ 2.4 ____ "Hg

3. A. If time allows, check to see that the treatment system is cycling properly as described in [STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE O&M MANUAL](#)

4/11/05

**STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND
MAINTENANCE WEEKLY CHECKLIST**

1. A. Is any part of the system leaking? YES ☒ NO
If so, list where. _____
- B. Is there water on the floor? YES ☒ NO
If so, list where. _____
- C. Are all three (3) floor sump level switches in place? ☒ YES NO
- D. Is there any evidence of water in any of these floor sumps? YES ☒ NO
Note: If water is present, remove with shop vac or paper towels.

2. A. Display screen on computer will either show system or screen saver. If screen saver is on, tap screen with finger to show screen. If only the desktop is showing with no system screen, click the *Lookout – (Stanton)* icon on the taskbar at the bottom of the screen.

B. From the site display, monitor and record the following.

Currently MW-24 and EPA-EXT-02 are on

1. Recovery Well EPA-EXT-02 flow¹ _____ 60 _____ GPM
2. Recovery Well EPA-EXT-02 valve open _____ 100 _____ %
3. Recovery Well EPA-EXT-4R flow _____ GPM
4. Recovery Well EPA-EXT-4R valve open _____ %
5. Recovery Well pH _____ 6.9 _____ pH
6. Recovery Well conductivity _____ 69 _____ cond
7. Air Stripper pH _____ 8.1 _____ pH
8. Air Stripper temperature _____ 154 _____ deg.
9. Air Stripper air flow _____ 366 _____ CFM
10. Pre-vapor carbon pressure _____ 0 _____ "wc
11. Post carbon air flow _____ 2691 _____ CFM
12. Discharge conductivity _____ 133 _____ cond
13. Discharge pH _____ 8.1 _____ pH
14. Discharge flow _____ 69 _____ GPM
15. Discharge total gallons _____ 122,887,325 _____ Gal
16. SVE inlet vacuum _____ 2 _____ "Hg

¹ Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

17. SVE air flow _____500_____ CFM

C. From the treatment room, monitor and record the following.

1. Recovery Well EPA-EXT-02 total flow ____5854800____ Gal

2. Recovery Well EPA-EXT-03 total flow _____ Gal

3. Recovery Well pH _____6.78_____ pH

4. Recovery Well conductivity _____0.64_____ cond

5. Air Stripper pH _____8.03_____ pH

6. Air Stripper temperature _____15.2_____ deg. F

7. Air Stripper Pump water flow _____~72_____ GPM

8. Air Stripper Pump pressure _____30_____ PSI

9. Discharge conductivity _____1.19__ cond

10. Discharge pH _____8.23_____ pH

11. SVE inlet vacuum (digital readout) _____01.6_____ "Hg

12. SVE inlet vacuum _____2.5_____ "Hg

13. SVE post knockout vacuum _____~3.25_____ "Hg

3. A. If time allows, check to see that the treatment system is cycling properly as described in [STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE O&M MANUAL](#)

4/18/05

**STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND
MAINTENANCE WEEKLY CHECKLIST**

1. A. Is any part of the system leaking? YES X NO
If so, list where. _____
- B. Is there water on the floor? YES X NO
If so, list where. _____
- C. Are all three (3) floor sump level switches in place? X YES NO
- D. Is there any evidence of water in any of these floor sumps? YES X NO
Note: If water is present, remove with shop vac or paper towels.

2. A. Display screen on computer will either show system or screen saver. If screen saver is on, tap screen with finger to show screen. If only the desktop is showing with no system screen, click the *Lookout* – (Stanton) icon on the taskbar at the bottom of the screen.

B. From the site display, monitor and record the following.

Currently MW-24 and EPA-EXT-02 are on

1. Recovery Well EPA-EXT-02 flow¹ _____ 60 _____ GPM
2. Recovery Well EPA-EXT-02 valve open _____ 100 _____ %
3. Recovery Well EPA-EXT-4R flow _____ GPM
4. Recovery Well EPA-EXT-4R valve open _____ %
5. Recovery Well pH _____ 7.1 _____ pH
6. Recovery Well conductivity _____ 84 _____ cond
7. Air Stripper pH _____ 8.4 _____ pH
8. Air Stripper temperature _____ 154 _____ deg.
9. Air Stripper air flow _____ 388 _____ CFM
10. Pre-vapor carbon pressure _____ 0 _____ “wc
11. Post carbon air flow _____ 2732 _____ CFM
12. Discharge conductivity _____ 150 _____ cond
13. Discharge pH _____ 8.6 _____ pH
14. Discharge flow _____ 68 _____ GPM
15. Discharge total gallons _____ 123,511,960 _____ Gal
16. SVE inlet vacuum _____ 2 _____ “Hg
17. SVE air flow _____ 256 _____ CFM

¹ Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

C. From the treatment room, monitor and record the following.

1. Recovery Well EPA-EXT-02 total flow ____ 6,432,900 ____ Gal
2. Recovery Well EPA-EXT-03 total flow ____ ____ Gal
3. Recovery Well pH ____ 6.74 ____ pH
4. Recovery Well conductivity ____ 0.64 ____ cond
5. Air Stripper pH ____ 8.00 ____ pH
6. Air Stripper temperature ____ 15.2 ____ deg. F
7. Air Stripper Pump water flow ____ 70 ____ GPM
8. Air Stripper Pump pressure ____ 30 ____ PSI
9. Discharge conductivity ____ 1.20 ____ cond
10. Discharge pH ____ 8.20 ____ pH
11. SVE inlet vacuum (digital readout) ____ 01.5 ____ "Hg
12. SVE inlet vacuum ____ 2.60 ____ "Hg
13. SVE post knockout vacuum ____ 3.5 ____ "Hg

3. A. If time allows, check to see that the treatment system is cycling properly as described in [STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE O&M MANUAL](#)

Appendix C

Groundwater Treatment System Downloaded Operational Data

Stanton Cleaners Groundwater Contamination Site - April 2006 - Site Operation Data															
	Recovery Well 1	Recovery Well 2	Recovery Well 3	Discharge	Discharge	Influent water	Influent conductivity	Effluent conductivity	Influent water	Air Stripper water	Discharge water	Total gallons discharged	Air Stripper Air Flow	Combined Discharge Air Flow	SVE Air Flow
	Flow (GPM)	Flow (GPM)	Flow (GPM)	Flow (GPM)	Flow (CFM)	Temperature (deg F)			pH	pH	pH				
4/1/2006 0:00	0	0	62	67	2774	154	68	132	6.9	8.1	8.3	121898990.3	412	2774	500
4/1/2006 4:00	0	0	60	66	2691	154	71	134	6.9	8.1	8.3	121914400.1	361	2691	500
4/1/2006 8:00	0	0	60	66	2693	155	72	138	7	8.2	8.4	121929814.7	338	2693	500
4/1/2006 12:00	0	0	61	66	2449	155	68	136	6.9	8.1	8.3	121945444.3	318	2449	500
4/1/2006 16:00	0	0	62	70	2541	155	66	132	6.9	8.1	8.3	121960835.2	389	2541	500
4/1/2006 20:00	0	0	59	68	2449	154	67	131	6.9	8.1	8.3	121976214	357	2449	500
4/2/2006 0:00	0	0	59	65	2551	154	68	132	6.9	8.1	8.3	121991828.7	406	2551	500
4/2/2006 4:00	0	0	61	68	2546	154	69	132	6.9	8.1	8.3	122003424.2	449	2546	500
4/2/2006 8:00	0	0	62	65	2599	153	73	135	6.9	8.2	8.4	122018862.9	468	2599	500
4/2/2006 12:00	0	0	62	66	2742	153	74	137	7	8.2	8.4	122034255.9	406	2742	500
4/2/2006 16:00	0	0	60	68	2546	153	68	131	6.9	8.1	8.3	122049908.9	388	2546	500
4/2/2006 20:00	0	0	60	67	2771	153	66	129	6.9	8.1	8.3	122065327.2	376	2771	500
4/3/2006 0:00	0	0	59	67	2691	152	69	130	6.9	8.1	8.3	122080694.5	401	2691	500
4/3/2006 4:00	0	0	60	67	2909	153	76	139	7	8.2	8.5	122096133.5	424	2909	500
4/3/2006 8:00	0	0	62	67	2774	153	85	148	7.2	8.4	8.6	122111758.9	413	2774	500
4/3/2006 12:00	0	0	62	66	2866	154	82	146	7.1	8.4	8.6	122127200.3	389	2866	500
4/3/2006 16:00	0	0	62	68	2774	154	77	141	7	8.3	8.5	122142580	465	2774	500
4/3/2006 20:00	0	0	60	70	2691	154	84	148	7.1	8.4	8.6	122158281.6	422	2691	500
4/4/2006 0:00	0	0	61	69	2866	155	87	155	7.2	8.5	8.7	122173708.9	457	2866	500
4/4/2006 4:00	0	0	59	66	2544	154	87	154	7.2	8.5	8.7	122189137.9	427	2544	500
4/4/2006 8:00	0	0	58	68	2815	153	90	154	7.3	8.5	8.8	122204811.5	401	2815	500
4/4/2006 12:00	0	0	61	66	2601	153	87	150	7.2	8.5	8.7	122220245.7	489	2601	500
4/4/2006 16:00	0	0	60	65	2909	153	81	144	7.1	8.3	8.6	122235634.6	333	2909	500
4/4/2006 20:00	0	0	59	68	2785	153	77	139	7	8.3	8.5	122251074.9	383	2785	500
4/5/2006 0:00	0	0	59	4	2691	153	91	154	7.3	8.5	8.8	122266661.3	396	2691	500
4/5/2006 4:00	0	0	60	70	2691	156	99	164	7.4	8.7	8.9	122282168.3	539	2691	344
4/5/2006 8:00	0	0	59	66	2863	157	102	166	7.5	8.7	9	122297624.3	493	2863	500
4/5/2006 12:00	0	0	58	68	2546	156	99	163	7.4	8.7	8.9	122313047.4	463	2546	500
4/5/2006 16:00	0	0	61	66	2774	154	95	159	7.3	8.6	8.8	122328743.2	401	2774	500
4/5/2006 20:00	0	0	60	67	2739	152	89	152	7.2	8.5	8.7	122344208.7	414	2739	500
4/6/2006 0:00	0	0	59	66	2774	156	100	164	7.4	8.7	8.9	122359657.6	457	2774	500
4/6/2006 4:00	0	0	61	66	2928	157	106	170	7.5	8.8	9.1	122375065.8	372	2928	500
4/6/2006 8:00	0	0	60	67	2601	159	107	172	7.6	8.8	9.1	122390768.6	500	2601	500
4/6/2006 12:00	0	0	58	67	2546	157	101	167	7.5	8.7	9	122406175.9	480	2546	500
4/6/2006 16:00	0	0	61	66	2739	153	88	152	7.2	8.5	8.7	122421591.9	539	2739	500
4/6/2006 20:00	0	0	60	69	2601	153	81	145	7.1	8.3	8.6	122436983.3	427	2601	239
4/7/2006 0:00	0	0	61	66	2921	153	91	156	7.3	8.5	8.8	122452579.4	444	2921	500
4/7/2006 4:00	0	0	60	68	2691	157	99	166	7.4	8.7	8.9	122467989.6	435	2691	500
4/7/2006 8:00	0	0	59	66	2739	158	105	170	7.5	8.8	9	122483388.2	409	2739	500
4/7/2006 12:00	0	0	62	69	2728	157	96	163	7.4	8.6	8.9	122498804.2	399	2728	500
4/7/2006 16:00	0	0	60	69	2742	155	84	149	7.2	8.4	8.6	122514227.1	444	2742	500
4/7/2006 20:00	0	0	61	67	2551	155	73	139	7	8.2	8.4	122529934	388	2551	500
4/8/2006 0:00	0	0	58	68	2548	155	74	141	7	8.2	8.4	122545319.1	392	2548	500
4/8/2006 4:00	0	0	59	68	2546	155	76	142	7	8.2	8.4	122560740.8	332	2546	500
4/8/2006 8:00	0	0	60	70	2774	154	76	140	7	8.2	8.4	122576403.5	393	2774	500
4/8/2006 12:00	0	0	61	69	2739	153	82	145	7.1	8.4	8.6	122591813.1	417	2739	500
4/8/2006 16:00	0	0	58	67	2863	153	87	151	7.2	8.5	8.7	122607253.2	367	2863	500

4/8/2006 20:00	0	0	60	69	2771	154	91	155	7.3	8.5	8.8	122622650.8	407	2771	500
4/9/2006 0:00	0	0	60	67	2691	155	97	162	7.4	8.6	8.9	122638313.6	414	2691	500
4/9/2006 4:00	0	0	59	66	2774	156	101	165	7.4	8.7	9	122653761.6	394	2774	500
4/9/2006 8:00	0	0	59	67	2863	156	103	167	7.5	8.8	9	122669250.8	403	2863	500
4/9/2006 12:00	0	0	60	69	2907	156	101	166	7.4	8.7	9	122684760.5	409	2907	500
4/9/2006 16:00	0	0	59	69	2866	153	83	147	7.1	8.4	8.6	122700277.4	406	2866	500
4/9/2006 20:00	0	0	59	66	2698	153	69	132	6.9	8.1	8.3	122715527.8	434	2698	500
4/10/2006 0:00	0	0	61	67	2774	153	82	146	7.1	8.3	8.6	122731028.3	450	2774	500
4/10/2006 4:00	0	0	59	67	2900	154	94	159	7.3	8.6	8.8	122746525.9	407	2900	500
4/10/2006 8:00	0	0	62	69	2691	157	100	165	7.4	8.7	8.9	122762044.2	490	2691	500
4/10/2006 12:00	0	0	59	66	2691	153	84	148	7.2	8.4	8.6	122777546.2	399	2691	500
4/10/2006 16:00	0	0	59	66	2725	153	69	132	6.9	8.1	8.3	122793046.9	358	2725	500
4/10/2006 20:00	0	0	61	68	2909	152	69	130	6.9	8.1	8.3	122808553.3	406	2909	500
4/11/2006 0:00	0	0	60	67	2866	153	82	145	7.1	8.3	8.5	122824061.7	506	2866	500
4/11/2006 4:00	0	0	59	67	2866	155	95	160	7.4	8.6	8.8	122839565.6	432	2866	500
4/11/2006 8:00	0	0	60	0	2774	157	103	169	7.5	8.7	9	122854884.2	402	2774	500
4/11/2006 12:00	0	0	59	65	2742	155	89	156	7.3	8.5	8.7	122870286.7	382	2742	500
4/11/2006 16:00	0	0	60	66	2746	154	70	136	6.9	8.1	8.3	122885731.7	320	2746	500
4/11/2006 20:00	0	0	60	68	2691	153	69	132	6.9	8.1	8.3	122901178.4	389	2691	500
4/12/2006 0:00	0	0	62	70	2909	154	81	146	7.1	8.3	8.5	122916619.7	396	2909	500
4/12/2006 4:00	0	0	59	67	2739	153	90	155	7.3	8.5	8.7	122932099.3	485	2739	500
4/12/2006 8:00	0	0	58	0	2601	155	93	160	7.3	8.6	8.8	122947612.5	406	2601	500
4/12/2006 12:00	0	0	58	5	2691	155	81	148	7.1	8.3	8.6	122963251.2	430	2691	500
4/12/2006 16:00	0	0	60	66	2753	155	71	137	6.9	8.2	8.4	122978726.2	402	2753	500
4/12/2006 20:00	0	0	60	71	2744	154	73	137	7	8.2	8.4	122994181.3	359	2744	500
4/13/2006 0:00	0	0	60	71	2601	154	81	147	7.1	8.4	8.6	123009622.3	407	2601	500
4/13/2006 4:00	0	0	59	66	2691	154	86	152	7.2	8.5	8.7	123025065.1	462	2691	500
4/13/2006 8:00	0	0	58	67	2909	155	89	156	7.2	8.5	8.7	123040517.5	338	2909	500
4/13/2006 12:00	0	0	61	72	2691	156	81	149	7.1	8.4	8.6	123055954.5	440	2691	500
4/13/2006 16:00	0	0	62	65	2774	155	68	135	6.9	8.1	8.3	123071594.5	343	2774	500
4/13/2006 20:00	0	0	60	68	2870	154	66	132	6.9	8.1	8.3	123087035.1	343	2870	500
4/14/2006 0:00	0	0	61	68	2861	154	68	133	6.9	8.1	8.3	123102586.3	361	2861	500
4/14/2006 4:00	0	0	60	67	2744	154	71	135	6.9	8.1	8.3	123117905.7	352	2744	500
4/14/2006 8:00	0	0	59	67	2546	155	81	147	7.1	8.3	8.5	123133447.1	406	2546	500
4/14/2006 12:00	0	0	59	69	2912	155	76	143	7	8.2	8.4	123149021.1	397	2912	500
4/14/2006 16:00	0	0	58	67	2551	155	74	140	7	8.2	8.4	123164380.4	322	2551	500
4/14/2006 20:00	0	0	58	66	2744	155	74	142	7	8.2	8.4	123179984.5	351	2744	500
4/15/2006 0:00	0	0	61	68	2601	155	78	146	7.1	8.3	8.5	123195359.5	388	2601	500
4/15/2006 4:00	0	0	59	65	2691	155	81	147	7.1	8.3	8.5	123209353.9	399	2691	500
4/15/2006 8:00	0	0	59	66	2599	155	83	150	7.1	8.4	8.6	123224967.6	389	2599	500
4/15/2006 12:00	0	0	63	67	2551	156	75	144	7	8.2	8.4	123240312.7	429	2551	500
4/15/2006 16:00	0	0	61	67	2447	156	68	136	6.9	8.1	8.3	123255920.8	393	2447	500

4/15/2006 20:00	0	0	61	65	2604	154	66	130	6.9	8.1	8.3	123271491.2	331	2604	500
4/16/2006 0:00	0	0	59	69	2746	154	68	132	6.9	8.1	8.3	123286811.9	423	2746	500
4/16/2006 4:00	0	0	62	66	2693	153	69	133	6.9	8.1	8.3	123302410.7	383	2693	500
4/16/2006 8:00	0	0	59	67	2551	154	79	144	7	8.3	8.5	123317755	361	2551	500
4/16/2006 12:00	0	0	58	69	2739	154	78	143	7	8.3	8.5	123333333.5	348	2739	500
4/16/2006 16:00	0	0	59	66	2691	154	69	134	6.9	8.1	8.3	123348681.3	338	2691	292
4/16/2006 20:00	0	0	60	68	2691	153	68	132	6.9	8.1	8.3	123364256.7	398	2691	500
4/17/2006 0:00	0	0	59	68	2601	153	70	134	6.9	8.1	8.4	123379609.6	424	2601	500

4/17/2006 4:00	0	0	62	67	2742	153	82	146	7.1	8.4	8.6	123392079	413	2742	500
4/17/2006 8:00	0	0	58	69	2546	154	91	156	7.3	8.5	8.8	123407466.1	381	2546	500
4/17/2006 12:00	0	0	58	65	2744	154	80	146	7.1	8.3	8.5	123423092.1	437	2744	500
4/17/2006 16:00	0	0	60	66	2746	154	69	134	6.9	8.1	8.3	123438419.9	428	2746	500
4/17/2006 20:00	0	0	61	65	2447	154	68	132	6.9	8.1	8.3	123454061.3	386	2447	500
4/18/2006 0:00	0	0	60	66	2771	153	75	138	7	8.2	8.4	123469463.2	452	2771	500
4/18/2006 4:00	0	0	62	67	2691	154	86	151	7.2	8.4	8.7	123485063.2	434	2691	500
4/18/2006 8:00	0	0	59	69	2546	156	97	162	7.4	8.6	8.9	123500448.8	424	2546	500
4/18/2006 12:00	39	39	166	253	18	154	91	159	7.2	8.4	8.7	123524920	17	18	88
4/18/2006 16:00	0	0	61	70	2498	154	69	135	6.9	8.1	8.3	123541509.4	406	2498	500
4/18/2006 20:00	0	0	59	66	2774	154	67	131	6.9	8.1	8.3	123557113	414	2774	500
4/19/2006 0:00	0	0	58	66	2774	153	68	132	6.9	8.1	8.3	123572663.5	407	2774	327
4/19/2006 4:00	0	0	59	70	2604	154	72	136	6.9	8.1	8.4	123588272.6	453	2604	500
4/19/2006 8:00	0	0	60	70	2546	154	80	145	7.1	8.3	8.5	123603899.9	402	2546	500
4/19/2006 12:00	0	0	62	67	2691	154	73	139	7	8.2	8.4	123619501.8	403	2691	500
4/19/2006 16:00	0	0	59	66	2546	154	68	134	6.9	8.1	8.3	123635125.1	386	2546	500
4/19/2006 20:00	0	0	62	67	2604	154	66	130	6.8	8.1	8.3	123650727.7	387	2604	500
4/20/2006 0:00	0	0	60	0	2447	154	67	132	6.9	8.1	8.3	123666379.9	369	2447	500
4/20/2006 4:00	0	0	60	69	2691	154	69	133	6.9	8.1	8.3	123682146.4	386	2691	500
4/20/2006 8:00	0	0	58	69	2742	154	74	138	7	8.2	8.4	123697741.1	384	2742	331
4/20/2006 12:00	0	0	60	67	2746	154	69	135	6.9	8.1	8.3	123713375.3	340	2746	500
4/20/2006 16:00	0	0	62	65	2553	154	66	132	6.9	8.1	8.3	123729005.2	353	2553	500
4/20/2006 20:00	0	0	60	67	2546	154	65	129	6.8	8	8.3	123744676.8	398	2546	500
4/21/2006 0:00	0	0	62	65	2691	153	66	130	6.8	8.1	8.3	123760278.1	383	2691	500
4/21/2006 4:00	0	0	60	65	2551	153	68	133	6.9	8.1	8.3	123775907.8	392	2551	500
4/21/2006 8:00	0	0	62	71	2774	154	73	138	6.9	8.2	8.4	123791543.5	415	2774	500
4/21/2006 12:00	0	0	59	67	2744	154	70	135	6.9	8.1	8.3	123807180.4	434	2744	500
4/21/2006 16:00	0	0	58	65	2693	154	68	133	6.9	8.1	8.3	123822770	368	2693	500
4/21/2006 20:00	0	0	60	68	2693	153	68	133	6.9	8.1	8.3	123838386.5	359	2693	500
4/22/2006 0:00	0	0	62	66	2774	153	74	137	6.9	8.2	8.4	123853988.7	361	2774	500
4/22/2006 4:00	0	0	61	68	2930	153	83	147	7.1	8.4	8.6	123869647.5	358	2930	500
4/22/2006 8:00	0	0	59	66	2774	153	88	154	7.2	8.5	8.7	123885298.3	389	2774	500
4/22/2006 12:00	0	0	59	66	2866	154	93	158	7.3	8.6	8.8	123900916.1	409	2866	500
4/22/2006 16:00	0	0	61	4	2774	153	91	157	7.3	8.6	8.8	123916747.7	445	2774	500
4/22/2006 20:00	0	0	61	67	2742	155	95	161	7.3	8.6	8.8	123932420.2	398	2742	500
4/23/2006 0:00	0	0	61	65	2578	156	96	164	7.4	8.7	8.9	123948075.4	379	2578	500
4/23/2006 4:00	0	0	61	67	2742	155	95	162	7.3	8.6	8.8	123963725.2	440	2742	500
4/23/2006 8:00	0	0	60	67	2742	156	94	163	7.3	8.6	8.8	123979392.5	427	2742	500
4/23/2006 12:00	0	0	60	65	2601	156	91	161	7.3	8.6	8.8	123994959.6	281	2601	500
4/23/2006 16:00	0	0	59	65	2551	156	85	154	7.2	8.4	8.6	124010572.7	399	2551	500
4/23/2006 20:00	0	0	60	67	2728	155	80	147	7.1	8.3	8.5	124026170.2	372	2728	500
4/24/2006 0:00	0	0	62	65	2546	155	84	150	7.1	8.4	8.6	124041762	427	2546	500
4/24/2006 4:00	0	0	60	65	2742	154	86	153	7.2	8.4	8.7	124057409.4	346	2742	500
4/24/2006 8:00	0	0	58	69	2742	154	90	157	7.2	8.5	8.7	124073074.1	519	2742	500
4/24/2006 12:00	0	0	61	68	2537	155	90	158	7.2	8.5	8.7	124088720.1	393	2537	500
4/24/2006 16:00	0	0	58	67	2601	155	80	147	7.1	8.3	8.5	124104406.6	440	2601	500
4/24/2006 20:00	0	0	58	68	2601	154	72	137	6.9	8.1	8.4	124120080.6	388	2601	500
4/25/2006 0:00	0	0	60	67	2714	155	80	147	7.1	8.3	8.5	124135720	388	2714	500
4/25/2006 4:00	0	0	60	68	2546	154	89	156	7.2	8.5	8.7	124151365.3	386	2546	500
4/25/2006 8:00	0	0	60	65	2544	158	99	167	7.4	8.7	8.9	124167027.6	424	2544	500
4/25/2006 12:00	0	0	59	67	2498	155	89	157	7.2	8.5	8.7	124182683.3	327	2498	500

4/25/2006 16:00	0	0	60	70	2544	155	71	138	6.9	8.2	8.4	124198302.6	335	2544	500
4/25/2006 20:00	0	0	60	65	2746	154	68	135	6.9	8.1	8.3	124214163.7	362	2746	500
4/26/2006 00:00	0	0	60	65	2691	153	75	139	7	8.2	8.4	124229772.6	439	2691	500
4/26/2006 4:00	0	0	61	69	2742	153	88	151	7.2	8.5	8.7	124245388.2	361	2742	500
4/26/2006 8:00	0	0	60	69	2774	155	96	162	7.3	8.6	8.9	124261223.1	338	2774	500
4/26/2006 12:00	0	0	62	65	2742	154	93	158	7.3	8.6	8.8	124276832.7	393	2742	500
4/26/2006 16:00	0	0	60	66	2774	154	81	146	7.1	8.3	8.6	124292415.1	406	2774	500
4/26/2006 20:00	0	0	59	69	2774	153	74	137	7	8.2	8.4	124308007.6	376	2774	500
4/27/2006 0:00	0	0	61	66	2691	154	85	151	7.2	8.4	8.7	124323559.7	463	2691	500
4/27/2006 4:00	0	0	60	69	2691	154	93	158	7.3	8.6	8.8	124339388.9	352	2691	500
4/27/2006 8:00	0	0	60	66	2691	157	98	167	7.4	8.7	8.9	124354974.6	404	2691	500
4/27/2006 12:00	0	0	59	65	2541	155	87	155	7.2	8.5	8.7	124370595.3	379	2541	500
4/27/2006 16:00	0	0	59	68	2396	154	71	137	6.9	8.1	8.4	124386180.6	398	2396	500
4/27/2006 20:00	0	0	61	67	2746	154	68	134	6.9	8.1	8.3	124401732.6	394	2746	500
4/28/2006 0:00	0	0	58	67	2744	154	71	136	6.9	8.1	8.4	124417283.8	403	2744	500
4/28/2006 4:00	0	0	58	10	2928	153	82	146	7.1	8.3	8.6	124433074.7	410	2928	500
4/28/2006 8:00	0	0	60	67	2689	153	90	155	7.2	8.5	8.7	124448639.6	437	2689	500
4/28/2006 12:00	0	0	61	67	2551	154	88	154	7.2	8.5	8.7	124464255.9	469	2551	500
4/28/2006 16:00	0	0	62	67	2601	154	77	142	7	8.3	8.5	124479862.6	427	2601	500
4/28/2006 20:00	0	0	60	66	2601	153	69	133	6.9	8.1	8.3	124495480.6	429	2601	500
4/29/2006 0:00	0	0	61	68	2601	153	79	144	7.1	8.3	8.5	124511095	448	2601	500
4/29/2006 4:00	0	0	60	70	2909	154	92	157	7.3	8.5	8.8	124526716.1	476	2909	500
4/29/2006 8:00	0	0	59	67	2774	156	100	165	7.4	8.7	8.9	124542356.2	413	2774	500
4/29/2006 12:00	0	0	58	69	2691	155	95	161	7.3	8.6	8.8	124557970.4	364	2691	500
4/29/2006 16:00	0	0	59	66	2744	154	80	145	7.1	8.3	8.5	124573600.9	407	2744	500
4/29/2006 20:00	0	0	62	67	2604	153	69	133	6.9	8.1	8.3	124589230.3	448	2604	500
4/30/2006 0:00	0	0	59	67	2928	153	84	148	7.1	8.4	8.6	124604824.6	424	2928	500
4/30/2006 4:00	0	0	62	66	2774	155	95	161	7.3	8.6	8.8	124620432.4	423	2774	500
4/30/2006 8:00	0	0	58	68	2774	158	103	170	7.5	8.7	9	124636044.1	469	2774	500
4/30/2006 12:00	0	0	60	65	2601	155	94	161	7.3	8.6	8.8	124651669.5	351	2601	500
4/30/2006 16:00	0	0	61	69	2553	154	77	144	7	8.3	8.5	124667051.1	404	2553	500
4/30/2006 20:00	0	0	61	67	2601	154	68	134	6.9	8.1	8.3	124682647	372	2601	500

Appendix D

Sampling Trip Reports

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

CERCLIS ID Number: NYD047650197

Sampling Dates: April 4, 2006

CLP Case Number: N/A

Site Location: 110 Cutter Mill Road, Great Neck, New York, 11021

Sample Descriptions: Groundwater Treatment System Influent / Effluent.

Laboratories Receiving Samples (Table 1):

Case Number	Sample Type	Name and Address of Laboratory
N/A	TCL-VOAs OLC03.2	John Birri USEPA Region II DESA LAB Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837

Sample Dispatch Data (Table 2):

On April 4, 2006, a total of four (4) groundwater samples, including one (1) duplicate sample and one (1) trip blank were shipped to the U.S. Environmental Protection Agency Region II Lab (USEPA) for TCL-VOAs analysis.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
855367817699	1	Total of 4 Aqueous Samples to include 1 duplicate sample, and 1 Trip Blank for TCL-VOAs	4/4/06 @ 10:15 TO: USEPA

Sampling Personnel (Table 3):

Name	Organization	Site Duties
Tom Williams	Earth Tech, Inc.	Earth Tech Project Manager
James Kearns	Earth Tech, Inc.	Earth Tech Task Manager/ Health and Safety
Robert Derrick	Earth Tech, Inc.	Sampler

Sample Numbers and Collection Points (Table 4):

Laboratory	Analysis	Sample Type	Sample #	Sample Collection Point(SCP)
USEPA Region II DESA LAB Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837	TCL-VOAs	Aqueous Groundwater	Influent (MW-24 and EPA-EXT-02)	Influent (MW-24 and EPA-EXT-02)
			Effluent	Effluent
			Effluent A	Duplicate of Effluent
			TB	Trip Blank

Additional Comments:

The Influent, Effluent and Effluent-A samples were collected after a five gallon purge from the sample ports located within the treatment system. The influent sample includes MW-24 and EPA-EXT-02. These two wells combine before they reach the treatment room and therefore cannot be sampled individually. These samples were collected for the following analysis: Target Compound List (TCL) Volatile Organic Compounds. In addition, one duplicate sample (Effluent-A) was collected from the effluent of the groundwater treatment process and was a duplicate sample of sample Effluent. One trip blank (TB) was also included in the shipment. Copies of the Chain of Custody forms and a copy of the FedEx air bill are included in Appendix A and B, respectively.

Earth Tech personnel also collected real time water quality parameters from the raw water for all the following sampling locations: Influent and Effluent (Discharge) and the results are included in Appendix C.

Appendix 1

Chain of Custody (April 4, 2006 System Sampling Event)



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:
DAS No:

R

Region: 2		Date Shipped: 4/4/2006		Chain of Custody Record	
Project Code: 1		Carrier Name: FedEx		Relinquished By (Date / Time)	
Account Code: NYD047650197		Airbill: 8536787699		Received By (Date / Time)	
CERCLUS ID: 02LH		Shipped to: USEPA REGION II DESA		1 <i>Plut</i> 4/4-6/10:15	
Site Name/State: Stanton Cleaners Area Groundwater Contam		LAB Building 209, MS-230		2	
Project Leader: James Kearns		2890 Woodbridge Avenue		3	
Action: Operations and Maintenance		Edison NJ 08837		4	
Sampling Co: Earth Tech		(732) 906-5886			

ORGANIC SAMPLE No.	MATRIX SAMPLER	CONC TYPE	ANALYSIS TURNOVER	TAG No./ PRESERVATIVE/ Buttes	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
EFFLUENT	Monitor Well/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	EFFLUENT	S. 4/4/2006 8:48	--	--
EFFLUENT A	Field QC/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	EFFLUENT A	S. 4/4/2006 8:50	Field Duplicate	
INFLUENT (MW-24 AND TB)	Monitor Well/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	INFLUENT (MW-24 and S. EPA-EXT-02)	4/4/2006 8:38	--	--
	Field QC/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	TB	S. 4/4/2006 8:00	Trip Blank	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: EFFLUENT A	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Destination: Composite = C, Grab = G	Shipment iced? _____

IR Number: 2-445049606-040306-0006

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA, 20191-3400 Phone 703/264-9348 Fax 703/264-9222



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:
DAS No:
SDG No:

L

Date Shipped: 4/4/2006	Chain of Custody Record		Sampler Signature: <i>LAH</i>	For Lab Use Only
Carrier Name: FedEx	Relinquished By: <i>LAH</i>	(Date / Time) 4/4/06 10:15	Received By: <i>LAH</i>	Lab Contract No: _____
Airbill: 855367817699				Unit Price: _____
Shipped to: USEPA REGION II DESA LAB				Transfer To: _____
Building 209, MS-230				Lab Contract No: _____
2890 Woodbridge Avenue				Unit Price: _____
Edison NJ 08837				
(732) 906-8886				

ORGANIC SAMPLE NO.	MATRIX SAMPLER	CONC/TYPE	ANALYSIS/TURNAROUND	TAG No./PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE NO.	FOR LAB USE ONLY Sample Condition On Receipt
EFFLUENT	Monitor Well/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	EFFLUENT	S: 4/4/2006 8:48		
EFFLUENT A	Field QG/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	EFFLUENT A	S: 4/4/2006 8:50		
INFLUENT (MW-24 AND TB	Monitor Well/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	INFLUENT (MW-24 and EPA-EXT-02)	S: 4/4/2006 8:38		
	Field QG/ Robert Derrick	L/G	VOA (14)	(HCL) (3)	TB	S: 4/4/2006 8:00		

Shipment Case Complete	Sample(s) to be used for laboratory QC: EFFLUENT A	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designator: Composite = C, Grab = G		Custody Seal Intact? <input type="checkbox"/> Shipment Iced? <input type="checkbox"/>

IR Number: 2-445049606-040306-0006
LABORATORY COPY
PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA, 20191-3400 Phone 703/264-9348 Fax 703/264-9222
Page 1 of 1

Appendix 2

**FedEx Air Bill
(April 4, 2006 System Sampling Event)**



FedEx Tracking Number: 8553 6781 7699

1 **From** Please print and press hard.
Date 4-4-06 Sender's FedEx Account Number 237472598
Sender's Name Robert Derrick Phone (804) 400-9611
Company Earth Tech
Address 110 Cuttermill Road
City Great Neck State NY ZIP 11021
2 **Your Internal Billing Reference** 70536 07.03
3 **To** Recipient's Name John Birri Phone (732) 906-6886
Company USEPA Region II
Recipient's Address 2890 Woodbridge Avenue, Building 209, MS-230
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address Edison State NJ ZIP 08837

Try online shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.
Questions? Go to our Web site at fedex.com or call 1.800.GoFedEx 1.800.483.3333.

Form ID No. **0200** Sender's Copy

4a **Express Package Service** To add SATURDAY Delivery, see Section 6. Packages up to 150 lbs.
☒ FedEx Priority Overnight Next business morning.
☐ FedEx Standard Overnight Next business afternoon.
☐ FedEx First Overnight Limited next business morning delivery to select locations.
☐ FedEx 2Day Second business day.
☐ FedEx Express Saver Third business day.
FedEx Evening rate not available. Minimum charge: One-pound rate.

4b **Express Freight Service** To add SATURDAY Delivery, see Section 6. Packages over 150 lbs.
☐ FedEx 1Day Freight* Next business day.
☐ FedEx 2Day Freight Second business day.
☐ FedEx 3Day Freight Third business day.
* Call for Confirmation.

5 **Packaging** * Declared value limit \$50.
☐ FedEx Envelope*
☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
☐ FedEx Box
☐ FedEx Tube
☒ Other

6 **Special Handling** Indicate FedEx address in Section 1.
☐ SATURDAY Delivery Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight to select ZIP codes.
☐ HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods?
☒ No ☐ Yes Shipper's Declaration required.
☐ Yes Shipper's Declaration not required.
Dry Ice Dry Ice 1, UN 1845
Dangerous goods Declaration dry may cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 **Payment** Bill to:
☒ Sender (See Note in Section 1 and 4a.)
☐ Recipient
☐ Third Party
☐ Credit Card
☐ Cash/Check
Enter FedEx Acct. No. or Credit Card No. below.
FedEx Acct. No. Credit Card No. Exp. Date

Total Packages 1 Total Weight 1 Total Declared Value* \$.00
* Liability is limited to \$100 unless you declare a higher value. See back for details. FedEx Use Only

8 **NEW Residential Delivery Signature Options** If you require a signature, check Direct or Indirect.
☐ No Signature Required Package may be left with our company signature for delivery.
☐ Direct Signature Addressee at recipient's address must sign for delivery. Fee applies.
☐ Indirect Signature Firm use is available at recipient's address, where a neighboring address may sign for delivery. Fee applies.
520

New Date 1/25/04 4/28/04 5/28/04 6/28/04 7/28/04 8/28/04 9/28/04 10/28/04 11/28/04 12/28/04

Appendix 3

Water Quality Parameters (April 4, 2006 System Sampling Event)

STANTON CLEANERS SITE LTRA

Groundwater Pump and Treatment System

Water Quality Parameters Log

Date: 4/4/06

Project # 70536

	pH	COND.	TURB.	DO	TEMP.	SALINITY
Influent*	6.24	0.783	40.6	9.6	12.9	0.0
Discharge	7.20	0.745	20.0	10.0	12.75	0.0

Total Gallons pumped: 122,216,237 gallons

Flow rate: 61 gpm

* The influent consists of MW-24 and EPA-EXT-02. These wells combine before they reach the treatment room and therefore cannot be individually sampled for analysis.

Equipment Calibrated by:

Robert Derrick

Comments:

Water samples collected by:

Robert Derrick

Water monitoring performed by:

Robert Derrick

TEMP. - Temperature measured in degrees Fahrenheit.

COND. - Conductivity measured in milliSiemens per centimeter (mS/cm).

TURB. - Turbidity measure in nephelometric turbidity units (NTU).

DO - Dissolved Oxygen measured in milligrams per liter (mg/L).

SALINITY - Salinity in percentage.

Appendix E

Groundwater Treatment System Raw and Treated Analytical Data

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B0001	10/27/2003	MTBE	2	J	?
				cis-1,2-Dichloroethene	2	J	?
				Trichloroethene (TCE)	3	J	5
				Toluene	3	J	5
				Tetrachloroethene	350 (D)		5
Effluent	SC-04	B0002	10/27/2003	None			
Trip Blank	SC-TB	B0003	10/27/2003	Acetone	61	J	5
				Methylene chloride	2	J	5
Influent	SC-01	B0177	11/12/2003	Tetrachloroethene (PCE)	240		5
				Chlorodifluoromethane	8.6	NJ	
				1,2-Dichloroethene	3.3	NJ	5
Effluent	SC-04	B0178	11/12/2003	Chlorodifluoromethane	22	NJ	
Influent Dup	SC-60	B0179	11/12/2003	Tetrachloroethene	250		5
				Chlorodifluoromethane	29	NJ	
				1,2-Dichloroethene	3.4	NJ	
Trip Blank	SC-TB	B0180	11/12/2003	Tetrachloroethene	9.4		5
				Chlorodifluoromethane	4.3	NJ	
Influent	SC-01	B17J3	12/10/2003	Tetrachloroethene	290 (D)		5
				cis-1,2-Dichloroethene	2	J	
				Trichloroethene	3	J	
Effluent	SC-04	B17J4	12/10/2003	None			
Influent Dup	SC-61	B17J5	12/10/2003	Tetrachloroethene	280 (D)		5
				cis-1,2-Dichloroethene	2	J	
				Trichloroethene	3	J	
Trip Blank	SC-TB	B17J6	12/10/2003	MTBE	5	J	
				Toluene	2	J	
				Ethylbenzene	2	J	
Influent	SC-01	B1000	1/12/2004	MTBE	2.7		
				cis-1,2-Dichloroethene	1.5		
				Trichloroethene	2.5		
				Tetrachloroethene	280		5
Effluent	SC-04	B1001	1/12/2004	None			
Influent Dup	SC-62	B1002	1/12/2004	MTBE	2.6		
				cis-1,2-Dichloroethene	1.5		
				Trichloroethene	2.5		
				Tetrachloroethene	300		5
Trip Blank	SC-TB	B1003	1/12/2004	Methylene chloride	0.6	K	
				MTBE	3.7		
				Tetrachloroethene	7.9		5
				m&p-Xylene	0.7		
Influent	SC-01	B17Z0	2/12/2004	cis-1,2-Dichloroethene	1.7		
				Trichloroethene	3.0		
				Tetrachloroethene	610 (D)		5
				Unknown TIC	0.53	J	
Effluent	SC-04	B17Z1	2/12/2004	Acetone	3.8	J	5
Influent Dup	SC-63	B17Z2	2/12/2004	Acetone	25	J	5
				cis-1,2-Dichloroethene	1.7		
				Trichloroethene	2.8		
				Tetrachloroethene	440 (D)		5
Trip Blank	SC-TB	B17Z3	2/12/2004	Methylene chloride	0.16	J	
				MTBE	4.7		
				Chloroform	0.26	J	
				Tetrachloroethene	7.1		5
				Xylene (total)	0.56		
				1,3-Dichlorobenzene	0.40	J	
				1,4-Dichlorobenzene	0.38	J	
				Unknown TIC	0.58	J	
				Benzene, 1-ethyl-3-methyl-	0.72	JN	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B17Z6	3/10/2004	MTBE	2.7		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.3		
				Tetrachloroethene	260		5
Effluent	SC-04	B17Z7	3/10/2004	Tetrachloroethene	0.70		5
Influent Dup	SC-64	B17Z8	3/10/2004	MTBE	2.8		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.3		
				Tetrachloroethene	260		5
Trip Blank	SC-TB	B17Z9	3/10/2004	Acetone	1.8		5
				Toluene	0.50		
				Isobutane	41	NJ	
Influent	SC-01	B1BS2	4/14/2004	MTBE	1.9		
				cis-1,2-Dichloroethene	0.83		
				Trichloroethene	1.5		
				Tetrachloroethene	380 (D)		5
Effluent	SC-04	B1BS3	4/14/2004	Tetrachloroethene	1.9		5
Influent Dup	SC-65	B1BS4	4/14/2004	Acetone	1.2	J	5
				MTBE	1.5		
				cis-1,2-Dichloroethene	0.67	J	
				Trichloroethene	1.1		
				Tetrachloroethene	260 (D)		5
Trip Blank	SC-TB	B1BS5	4/14/2004	Methylene chloride	0.17	J	
				Chloroform	2.8		
				Bromodichloromethane	0.80		
Influent	SC-01	B1BS6	5/20/2004	MTBE	2.1		
				cis-1,2-Dichloroethene	1.0		
				Trichloroethene	1.8		
				Tetrachloroethene	190		5
Effluent	SC-04	B1BS7	5/20/2004	Acetone	1.2		5
Influent Dup	SC-66	B1BS8	5/20/2004	Acetone	0		5
				MTBE	2.1		
				cis-1,2-Dichloroethene	0.9		
				Trichloroethene	1.6		
				Tetrachloroethene	200		5
Trip Blank	SC-TB	B1BS9	5/20/2004	Acetone	1		5
				Chloroform	0		
				Bromodichloromethane	0		
Influent	SC-01	B1BS6	6/15/2004	Carbon Disulfide	1.1		
				MTBE	2.7		
				cis-1,2-Dichloroethene	1.3		
				Trichloroethene	2.4		
				Tetrachloroethene	320		5
Effluent	SC-04	B1BS7	6/15/2004	Tetrachloroethene	2.1		5
Influent Dup	SC-67	B1BS8	6/15/2004	MTBE	2.3		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.2		
				Tetrachloroethene	330		5
Trip Blank	SC-TB	B1BS9	6/15/2004	None			

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1FJ2	7/13/2004	Acetone	0.8		5
				MTBE	2.3		
				cis-1,2-Dichloroethene	1.1		
				Trichloroethene	1.7		
				Tetrachloroethene	170		5
Effluent	SC-04	B1FJ3	7/13/2004	Acetone	0.72		5
				Tetrachloroethene	2		5
				MTBE	2.4		
Influent Dup	SC-67	B1FJ4	7/13/2004	cis-1,2-Dichloroethene	1.1		
				Trichloroethene	1.8		
				Tetrachloroethene	160		5
				Acetone	0.73		5
Trip Blank	SC-TB	B1FJ5	7/13/2004	Acetic Acid, Ethyl Ester	2.5	NJ	
				MTBE	1.9		
Influent	SC-01	B1GH2	8/16/2004	cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.5		
				Tetrachloroethene	200		5
				Acetone	2		5
				Tetrachloroethene	5.4		5
Effluent	SC-04	B1GH3	8/16/2004	Acetone	1.6		5
				Acetone	1.2		5
Influent Dup	SC-69	B1GH4	8/16/2004	MTBE	2		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.5		
				Tetrachloroethene	210		5
				Chloromethane	0.80		
Influent	SC-01			Acetone	1.0		5
				MTBE	1.5		
				cis-1,2-Dichloroethene	0.70		
				Trichloroethene	1.4		
				Tetrachloroethene	200		5
Effluent	SC-04			Chloromethane	0.80		
				Acetone	2.1		5
				Tetrachloroethene	1.7		5
Influent Dup	SC-70			Acetone	1.0		5
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.60		
				Trichloroethene	1.4		
				Tetrachloroethene	210		5
Trip Blank	SC-TB			Acetone	2.2		5
				2-Butanone	1.5		
Influent	SC-01	B1LZ2	10/21/2004	Acetone	5	J	5
				Methylene chloride	0.2	J	
				MTBE	0.82		
				cis-1,2-Dichloroethene	0.5		
				Trichloroethene	1.2		
				Tetrachloroethene	220		5
Effluent	SC-04	B1LZ3	10/21/2004	Acetone	5	J	5
				Methylene chloride	0.5	UJ	
				Tetrachloroethene	0.2	J	5
Influent Dup	SC-71	B1LZ4	10/21/2004	Acetone	5	J	5
				Methylene chloride	1.1		
				MTBE	1.1		
				cis-1,2-Dichloroethene	0.64		
				Trichloroethene	1.1		
				Tetrachloroethene	210	(D)	5
Trip Blank	SC-TB	B1LZ5	10/21/2004	Acetone	5.7		5
				Methylene chloride	0.68		
				Toluene	0.39	J	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1T22	11/17/2004	Acetone	3	J	5
				Methylene chloride	1.3	U	
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.64		
				Trichloroethene	1.2		
				Tetrachloroethene	170	(D)	5
Effluent	SC-04	B1T23	11/17/2004	Methyl Acetate	0.5	UJ	
				Methylene chloride	0.5	U	
Influent Dup	SC-72	B1T24	11/17/2004	Methylene chloride	0.85	U	
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.5		
				Trichloroethene	0.83		
				Tetrachloroethene	160	(D)	5
Trip Blank	SC-TB	B1T25	11/17/2004	Acetone	3	J	5
				Methyl Acetate	0.5	UJ	
				Methylene chloride	0.46	J	
				2-Butanone	2.4	J	
				Tetrachloroethene	9.6		5
				1,2,3-Trichlorobenzene	0.5	UJ	5
Influent	SC-01	B1T79	12/15/2004	MTBE	1.6		
				cis-1,2-Dichloroethene	0.45	J	
				Trichloroethene (TCE)	1.0	J	5
				Tetrachloroethene	100	(D)	5
				Methylcyclohexane	1	UJ	
				Bromomethane	1	UJ	
				Bromodichloromethane	1	UJ	
				Chloromethane	1	UJ	
				1,2-Dichloroethene	1	UJ	
				1,2-Dichloropropane	1	UJ	
				2-Hexanone	10	R	
				4-Methyl-2-pentanone	10	R	
Effluent	SC-04	B1T81	12/15/2004	Benzene	0.5	JB	
				1,2,4-Trichlorobenzene	0.5	JB	
				1,2,3-Trichlorobenzene	0.5	JB	5
				Methyl tert-Butyl Ether	1.6		
Influent Dup	SC-73	B1T80	12/15/2004	cis-1,2-Dichloroethene	0.48	J	
				Trichloroethene	0.98	J	
				4-Methyl-2-pentanone	10	R	
				Tetrachloroethene	98	(D)	5
				2-Hexanone	10	R	
				Chloroform	0.1	J	
Trip Blank	SC-TB	B1T82	12/15/2004	Cyclohexane	0.15	J	
				Benzene	0.5	JB	
				Toluene	0.21	J	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1W00	1/21/2005	MTBE	1.5		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene (TCE)	1.4		5
				Tetrachloroethene	160		5
Effluent	SC-04	B1W02	1/21/2005	Acetone	1.8		5
Influent Dup	SC-74	B1W01	1/21/2005	Methyl tert-Butyl Ether	1.4		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.4		
				Tetrachloroethene	150		5
Trip Blank	SC-TB	B1W03	1/21/2005	Acetone	10		5
				Acetone	3.5		5
Influent	SC-01	AG00197	2/3/2005	MTBE	1.4		
				cis-1,2-Dichloroethene	0.5		
				Trichloroethene (TCE)	1.1		5
				Tetrachloroethene	140		5
Effluent	SC-04	AG00198	2/3/2005	Acetone	1.2		5
Influent Dup	SC-75	AG00199	2/3/2005	Methyl tert-Butyl Ether	1.5		
				cis-1,2-Dichloroethene	0.54		
				Trichloroethene	1.1		
				Tetrachloroethene	140		5
Trip Blank	SC-TB	AG00200	2/3/2005	Acetone	1.1		5
				Acetone	4.3		5
				4-Methyl-2-pentanone	1.2		
Influent	SC-01	AG00468	3/9/2005	MTBE	1.4		
				Acetone	2.5		5
				Trichloroethene (TCE)	1.1		5
				Tetrachloroethene	130		5
Effluent	SC-04	AG00469	3/9/2005	Acetone	1.8		5
Influent Dup	SC-76	AG00470	3/9/2005	MTBE	1.4		
				Acetone	1.2		5
				Trichloroethene	1.1		
				Tetrachloroethene	130		5
Trip Blank	SC-TB	AG00471	3/9/2005	Acetone	1.7		5
				Chloroform	1.6		
Influent (EPA-EXT-02)	SC-01	AG00825	4/22/2005	MTBE	1.7		
				2-Butanone	2.2		
				Acetone	2.4		5
				Trichloroethene (TCE)	1.1		5
Influent (EPA-EXT-4R)	SC-02	AG00826	4/22/2005	Tetrachloroethene	65		5
				2-Butanone	2.5		
				Acetone	5.1		5
				Trichloroethene (TCE)	1.3		5
Effluent	SC-04	AG00827	4/22/2005	Tetrachloroethene	9.5		5
				None			
Influent Dup (EPA-EXT-02) (EPA-EXT-4R)	SC-77	AG00828	4/22/2005	2-Butanone	2.8		
				Acetone	4.9		5
				Trichloroethene	1.3		
				Tetrachloroethene	9		5

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Trip Blank	SC-TB	AG00829	4/22/2005	Acetone	1		5
				Chloroform	1.7		
				Trichloroethene (TCE)	0.84		5
Influent (EPA-EXT-02)	SC-01	AG01320	5/24/2005	MTBE	1.1		
				Trichloroethene (TCE)	1.0		5
				Tetrachloroethene	100		5
Influent (EPA-EXT-4R)	SC-02	AG01321	5/24/2005	Tetrachloroethene	8.8		5
Effluent	SC-04	AG01322	5/24/2005	Acetone	1.3		5
Influent Dup (EPA-EXT-02) (EPA-EXT-4R)	SC-78	AG01323	5/24/2005	Tetrachloroethene	8.6		5
Trip Blank	SC-TB	AG01324	5/24/2005	Acetone	1.3		5
				Chloroform	13		
				Bromodichloromethane	2.5		
Influent (EPA-EXT-02)	SC-01	AG02074	6/22/2005	MTBE	0.98		
				Trichloroethene (TCE)	0.8		5
				Tetrachloroethene	95		5
				Acetone	2.7	K	5
				Ethyl Acetate	10	JN	
Influent (EPA-EXT-4R)	SC-02	AG02075	6/22/2005	Tetrachloroethene	9.1		5
				Acetone	1.9	K	5
				Ethyl Acetate	3.6	JN	
				Propane, 2-Isothiocyanato-2	0.8	JN	
Influent		AG02076	6/22/2005	MTBE	0.64		
				Tetrachloroethene	50		5
				Acetone	2	K	5
				Trichloroethene (TCE)	0.56		5
Effluent	SC-04	AG02072	6/22/2005	Ethyl Acetate	8.8	JN	
				Acetone	2.6	K	5
EffluentDup	SC-04	AG02073	6/22/2005	Ethyl Acetate	6.2	JN	
				Acetone	2.6	K	5
Trip Blank	SC-TB	AG02077	6/22/2005	Ethyl Acetate	3.3	JN	
				Acetone	2.4	K	5
				Chloroform	13		
				Bromodichloromethane	2.7		
Influent (EPA-EXT-02)	SC-01	AG02780	7/12/2005	Ethyl Acetate	3.1	JN	
				MTBE	0.9		
				Trichloroethene (TCE)	0.8		5
				Tetrachloroethene	85		5
Influent (EPA-EXT-4R)	SC-02	AG02781	7/12/2005	Acetone	1	K	5
				Tetrachloroethene	7.4		
				Acetone	2.1	K	5
				Ethyl Acetate	4.1	JN	
Influent		AG02782	7/12/2005	Propane, 2-Isothiocyanato-2	1.4	JN	
				MTBE	0.52		
Effluent	SC-04	AG02778	7/12/2005	Tetrachloroethene	43		5
				Acetone	2.8	K	5
EffluentDup	SC-04	AG02779	7/12/2005	Ethyl Acetate	11	JN	
				Acetone	1.9	K	5
Trip Blank	SC-TB		7/12/2005	Ethyl Acetate	5.2	JN	
				Acetone	1.5	K	5
				Chloroform	12		
				Bromodichloromethane	2.6		

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (EPA-EXT-02)	SC-01	AG03721	8/15/2005	MTBE	0.68		
				Trichloroethene (TCE)	0.73		5
				Tetrachloroethene	88		5
Influent (EPA-EXT-4R)	SC-02	AG03722	8/15/2005	Tetrachloroethene	9.7		5
				Propane, 2-Isothiocyanato-2	0.53	JN	
Influent		AG03723	8/15/2005	Tetrachloroethene	43		5
Effluent	SC-04	AG03725	8/15/2005	Acetone	ND (5.0)		5
EffluentDup	SC-04	AG03720	8/15/2005	Acetone	ND (5.0)		5
Trip Blank	SC-TB	AG03724	8/15/2005	Chloroform	13		
				Bromodichloromethane	2.6		
Influent (EPA-EXT-02)	SC-01	AG04086	9/8/2005	MTBE	0.76		
				Trichloroethene (TCE)	0.74		5
				Tetrachloroethene	90		5
Influent (EPA-EXT-4R)	SC-02	AG04087	9/8/2005	Tetrachloroethene	9.8		5
Influent		AG04088	9/8/2005	MTBE	0.63		
				Tetrachloroethene	44		5
Effluent	SC-04	AG04084	9/8/2005	Acetone	ND (1.0)		5
EffluentDup	SC-04	AG04085	9/8/2005	Acetone	1.0		5
Trip Blank	SC-TB	AG04089	9/8/2005	Chloroform	11		
				Bromodichloromethane	2.2		
				MTBE	0.82		
Influent (EPA-EXT-02)	SC-01	AG07649	10/5/2005	Trichloroethene (TCE)	0.78		5
				Tetrachloroethene	100		5
				MTBE	0.6		
Influent		AG07651	10/5/2005	Acetone	1		5
				Tetrachloroethene	52		5
				MTBE	0.6		
Effluent	SC-04	AG07647	10/5/2005	Acetone	1.1		
EffluentDup	SC-04	AG07648	10/5/2005	Acetone	1.4		
Trip Blank	SC-TB	AG07652	10/5/2005	Chloroform	ND		
Influent (EPA-EXT-02)	SC-01	AG08530	11/14/2005	Acetone	1.4	K	
				MTBE	0.92		
				Trichloroethene (TCE)	0.81		5
				Tetrachloroethene	95		5
Influent (EPA-EXT-4R)	SC-02	AG08531	11/14/2005	Acetone	1.0	K	5
				Tetrachloroethene	10		5
Influent		AG08532	11/14/2005	MTBE	0.9		
				Acetone	1.4	K	5
				Trichloroethene (TCE)	0.74		5
				Tetrachloroethene	91		5
Effluent	SC-04	AG08528	11/14/2005	Acetone	ND		5
EffluentDup	SC-04	AG08529	11/14/2005	Acetone	ND		5
Trip Blank	SC-TB	AG08533	11/14/2005	Acetone	2.0	K	5

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (EPA-EXT-02)	SC-01	AG08953	12/6/2005	Acetone	4.1		
				MTBE	0.85		
				Trichloroethene (TCE)	0.67		5
				Tetrachloroethene	90		5
Influent (EPA-EXT-4R)	SC-02	AG08954	12/6/2005	1-Butanol	0.63	NJ	
				Acetone	1.4	K	5
				Tetrachloroethene	9.5		5
Influent		AG08955	12/6/2005	MTBE	0.9		
				Acetone	1.4	K	5
				Trichloroethene (TCE)	0.77		5
				Tetrachloroethene	89		5
Effluent	SC-04	AG08951	12/6/2005	Acetone	1.5	K	5
EffluentDup	SC-04	AG08952	12/6/2005	Acetone	3.0	K	5
Trip Blank	SC-TB		12/6/2005	Acetone	ND		5
Influent (EPA-EXT-02)	SC-01	AH00216	1/10/2006	Acetone	ND		5
				MTBE	0.98		
				Trichloroethene (TCE)	0.79		5
Influent (EPA-EXT-4R)	SC-02	AH00217	1/10/2006	Tetrachloroethene	93		5
				Acetone	ND (1.0)		5
				Tetrachloroethene	8.2		5
Influent		AH00218	1/10/2006	MTBE	0.94		
				Acetone	ND (1.0)		5
				Trichloroethene (TCE)	0.85		5
				Tetrachloroethene	90		5
Effluent	SC-04	AH00214	1/10/2006	Acetone	ND (1.0)		5
EffluentDup	SC-04	AH00215	1/10/2006	Furan, Tetrahydro	0.52	NJ	
Trip Blank	SC-TB	AH00219		Acetone	ND (1.0)		5
Influent	SC-01	AH01177	2/15/2006	MTBE	1.2		
				Trichloroethene (TCE)	0.72		5
				Tetrachloroethene	80		5
MW-19		AH01178	2/15/2006	Acetone	1.2		5
				Trichloroethene (TCE)	1.2		5
				Tetrachloroethene	85		5
MW-21		AH01179	2/15/2006	Trichloroethene (TCE)	2.6		5
				Tetrachloroethene	27		5
Effluent		AH01175	2/15/2006		ND		
Effluent Duplicate		AH01176	2/15/2006		ND		
Trip Blank	SC-TB	AH00219	2/15/2006	Chloroform	10		
				Bromodichloromethane	2.3		
Influent	SC-01	AH01256	3/8/2006	MTBE	1.4		
				Trichloroethene (TCE)	0.71		5
				Tetrachloroethene	83		5
				Acetone	2		5
Effluent	SC-04	AH01254	3/8/2006	Acetone	2		5
Effluent Duplicate	SC-04	AH01255	3/8/2006	Acetone	2.4		5
				Acetone	2		5
Trip Blank	SC-TB	AH01257	3/8/2006	Bromodichloromethane	5		
				Chloroform	14		
				MTBE	1.5		
Influent	SC-01	AH01641	4/5/2006	TRICHLOROETHENE	0.57		
				TETRACHLOROETHENE	68		
				ACETONE	1.7		
				ETHYL ACETATE	1.5	NJ	
Effluent	SC-04	AH01639	4/5/2006	ACETONE	1.7		
				EHHYL ACETATE	1.7	NJ	
Effluent A	SC-04	AH01640	4/5/2006	ACETONE	4.6		
			4/5/2006	EHHYL ACETATE	5.3	NJ	
Trip Blank	SC-TB	AH01642	4/5/2006	ACETONE	1.7		

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
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Notes:

* = Unless otherwise noted, samples collected from ECC ID SC-04 were used as the matrix spike / matrix spike duplicate sample.

** = Data validation was performed by EPA Region II. ECC carried over assigned qualifiers and did not perform a separate review or validation of the data.

(D) = Detection from a dilution of the sample.

J = qualified as estimated

JN = Presumptive evidence for the presence of the material at an estimated value.

K = The reported value may be biased high.

µg/L = micrograms per liter

MTBE = Tert-butyl-methyl-ether

NJ = TIC. The reported value is estimated.

TIC = Tentatively Identified Compound.

Appendix F

Soil Vapor Extraction and Pump and Treat System Bi-weekly Air Monitoring Logs

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

Date: 4/11/06
Project # 70536

	MultiRAE Plus PGM-50					VelociCalc Plus				
	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	1.6	1	20.5%	0%	0%	101.6	N/A	23.4%	57.4	245
Post Air Stripper	0.0	1	20.9%	0%	0%	59.0	N/A	96.1%	57.4	2040
SVE-Effluent ¹	0.0	2	20.1%	0%	0%	82.1	N/A	43.2%	57.5	250
GW Post Vapor Effluent ²	0.0	1	20.9%	0%	0%	59.1	N/A	93.0%	56.7	2000
EPA-SVE-1 (shallow)	0.0	2	20.5%	0%	0%	62.0	11.00	40.3%	37.5	2.80
EPA-SVE-1 (medium)	0.0	1	20.5%	0%	0%	67.4	12.00	33.3%	37.5	5.80
EPA-SVE-2 (shallow)	0.0	2	20.4%	0%	0%	72.4	0.00	58.2%	56.6	1.00
EPA-SVE-2 (medium)	0.0	2	20.5%	0%	0%	80.7	0.00	26.5%	44.0	1.300
SS-A	0.0	0	20.5%	0%	0%	62.2	5.00	48.9%	42.7	36.0
EPA-SVE-04R/SS-B(A)	0.0	1	20.9%	0%	0%	58.1	2.75	47.7%	38.1	3.15
SS-B-C	0.0	2	20.4%	0%	0%	63.3	3.00	37.0%	37.4	41.50
SS-C	0.0	1	20.9%	0%	0%	56.8	3.00	56.7%	41.5	32.2
L1	0.0	2	20.4%	0%	0%	60.8	6.25	100.0%	60.8	74.5
L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SS-B(B)	0.0	2	20.9%	0%	0%	56.2	3.75	52.1%	39	5.75
SS Vent-LIHA	0.0	1	20.9%	0%	0%	56.9	2.25	49.0%	40.1	65.5
Vapor Point-1/Slope 1	0.0	2	20.9%	0%	0%	N/A	N/A	N/A	N/A	N/A
SVE-3A*	0.0	2	20.4%	0%	0%	N/A	N/A	N/A	N/A	>200
SVE-3B	0.9	1	19.9%	0%	0%	63.1	9.50	79.0	56.6	95
Background	0.0	0	20.9%	0%	0%	101.8	N/A	37.7%	35.4	N/A

*Flow too strong to take VelociCalc readings

Equipment calibrated by: Frank Mahalski

Air readings collected by: Robert Derrick, Frank Mahalski, William Pollard

*Approximately

Comments:

VOC: Volatile Organic Compounds

CO: Carbon Monoxide

LEL: Lower Explosive Limit

ppm: parts per million

temperature: measured in degrees Fahrenheit

pressure: measured in inches of water (in/H₂O), inches of mercury (in/Hg), or

pounds per square inch

(psi).

Flow: measured in cubic feet per minute (cfm)

¹Formerly Post SVE Carbon

²Formerly Post Air Stripper Carbon

%RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit

AS: Air Stripper

SVE: Soil Vapor Extraction
System

³Formerly Sub-Slab A,B, and C
respectively

⁴Formerly Sub-Slab

D

⁵Formerly Sub-Slab

B

NA- Not Available

	<u>Prior to 10/3/05</u>	<u>After 10/3/05</u>
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	on
L2	on	off

Comments:

New SVE well EPA-EXT-04 online since 11/4/04

Sub-slab sample ports online since
3/22/05

L2 is offline

Appendix G

Semi-Annual Groundwater Sampling Analytical Data

NO GROUNDWATER SAMPLING EVENT THIS MONTH

Appendix H

Historical Groundwater Level Monitoring Results (Ongoing)

WATER LEVEL DATA SUMMARY

<p>PROJECT: Stanton Cleaners</p> <p>LOCATION: Great Neck, NY</p> <p>CLIENT: USACE / USEPA</p> <p>SURVEY DATUM: ft msl</p> <p>MEASURING DEVICE: Solinst Water Level Indicator S/N# 34407</p>	<p>JOB NUMBER: 70536</p> <p>DATE: 5/2/2006 Derrick, Fernald</p> <p>MEASURED BY:</p>
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WELL NUMBER	MEASURING POINT		DEPTH TO WATER (FT)	ELEVATION OF WATER (FT)	COMMENTS
	Description	Elevation (FT)			
EPA-MW-11D	ft BTOC	74.63	64.90	9.73	
EPA-MW-21	ft BTOC	84.13	63.84	20.29	
EPA-MW-22	ft BTOC	82.20	63.59	18.61	
EPA-MW-23	ft BTOC	82.83	68.99	13.84	
EPA-MW-27	ft BTOC	69.32	51.28	18.04	
ST-MW-02	ft BTOC	82.03			
ST-MW-06	ft BTOC	69.83	44.58	25.25	
ST-MW-09	ft BTOC	78.13	63.50	14.63	
ST-MW-11	ft BTOC	75.25			
ST-MW-12	ft BTOC	87.20	73.87	13.33	
ST-MW-14	ft BTOC	69.73	55.71	14.02	
ST-MW-16	ft BTOC	75.78	54.63	21.15	
ST-MW-17	ft BTOC	86.53	70.35	16.18	
ST-MW-19	ft BTOC	82.50	66.69	15.81	
ST-MW-20	ft BTOC	84.53	71.80	12.73	

Notes:

WAGNN Public Supply Well Pumping Rate: GPM

Treatment System:

Total Gallons Pumped:

Pumping Rate:

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	10/29/2003		10/31/2003		11/22/03 - 11/23/03	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	57.74	16.89	57.94	16.69	60.07	14.56
EPA-MW-21	84.13	66.70	17.43	66.14	17.99	66.86	17.27
EPA-MW-22	82.20	64.51	17.69	64.08	18.12	65.09	17.11
EPA-MW-23	82.83	64.97	17.86	64.54	18.29	78.61	4.22
EPA-MW-27	69.32	51.74	17.58	51.12	18.20	52.85	16.47
ST-MW-02	82.03	64.19	17.84	63.78	18.25	64.40	17.63
ST-MW-06	69.83	63.43	6.40	44.82	25.01	44.92	24.91
ST-MW-09	78.13	61.39	16.74	60.67	17.46	62.52	15.61
ST-MW-11	75.25	58.67	16.58	58.06	17.19	60.59	14.66
ST-MW-12	87.20	73.84	13.36	70.18	17.02	72.01	15.19
ST-MW-14	69.73	50.94	18.79	50.76	18.97	56.40	13.33
ST-MW-16	75.78	55.51	20.27	55.53	20.25	65.51	10
ST-MW-17	86.53	69.95	16.58	69.27	17.26	71.55	14.98
ST-MW-19	82.50	67.01	15.49	64.93	17.57	68.04	14.46
ST-MW-20	84.53	65.99	18.54	65.83	18.70	73.45	11.08

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	12/17/03 - 12/18/03		1/12/2004		2/26/2004	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.00	15.63	57.52	17.11	56.50	18.13
EPA-MW-21	84.13	64.99	19.14	66.17	17.96	64.30	19.83
EPA-MW-22	82.20	63.03	19.17	63.99	18.21	61.90	20.30
EPA-MW-23	82.83	77.05	5.78	64.45	18.38	63.00	19.83
EPA-MW-27	69.32	51.75	17.57	51.22	18.10	50.50	18.82
ST-MW-02	82.03	63.25	18.78	64.03	18.00	62.03	20.00
ST-MW-06	69.83	43.10	26.73	45.74	24.09	44.40	25.43
ST-MW-09	78.13	61.50	16.63	--	--	60.00	18.13
ST-MW-11	75.25	59.23	16.02	62.10	13.15	60.90	14.35
ST-MW-12	87.20	72.00	15.20	70.27	16.93	60.50	26.70
ST-MW-14	69.73	55.05	14.68	NA	NA	48.70	21.03
ST-MW-16	75.78	64.18	11.60	54.99	20.79	53.00	22.78
ST-MW-17	86.53	69.99	16.54	69.40	17.13	67.25	19.28
ST-MW-19	82.50	67.21	15.29	--	--	65.25	17.25
ST-MW-20	84.53	71.56	12.97	63.51	21.02	61.75	22.78

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	3/29/2004		4/5/2004		5/19/2004	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	60.00	14.63	60.36	14.27	60.30	14.33
EPA-MW-21	84.13	66.99	17.14	67.38	16.75	67.10	17.03
EPA-MW-22	82.20	61.90	20.30	65.00	17.20	64.98	17.22
EPA-MW-23	82.83	65.10	17.73	65.59	17.24	65.25	17.58
EPA-MW-27	69.32	52.08	17.24	52.84	16.48	53.10	16.22
ST-MW-02	82.03	63.99	18.04	64.90	17.13	64.87	17.16
ST-MW-06	69.83	45.60	24.23	46.24	23.59	46.25	23.58
ST-MW-09	78.13	62.80	15.33	--	--	62.00	16.13
ST-MW-11	75.25	60.00	15.25	60.85	14.40	60.46	14.79
ST-MW-12	87.20	72.22	14.98	72.22	14.98	72.12	15.08
ST-MW-14	69.73	56.99	12.74	57.87	11.86	58.13	11.60
ST-MW-16	75.78	54.68	21.10	55.48	20.30	55.09	20.69
ST-MW-17	86.53	70.25	16.28	71.76	14.77	71.80	14.73
ST-MW-19	82.50	66.00	16.50	--	--	65.78	16.72
ST-MW-20	84.53	71.45	13.08	73.78	10.75	73.65	10.88

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	6/14/2004		7/21/04 - 7/22/04		8/2/2004	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.97	14.66	59.75	14.88	59.75	14.88
EPA-MW-21	84.13	67.00	17.13	66.99	17.14	66.11	18.02
EPA-MW-22	82.20	64.78	17.42	64.50	17.70	64.33	17.87
EPA-MW-23	82.83	66.21	16.62	66.10	16.73	65.16	17.67
EPA-MW-27	69.32	53.05	16.27	52.98	16.34	54.86	14.46
ST-MW-02	82.03	65.11	16.92	65.00	17.03	59.85	22.18
ST-MW-06	69.83	45.99	23.84	45.66	24.17	44.11	25.72
ST-MW-09	78.13	62.00	16.13	61.79	16.34	--	--
ST-MW-11	75.25	60.40	14.85	60.39	14.86	60.50	14.75
ST-MW-12	87.20	72.29	14.91	72.20	15.00	71.36	15.84
ST-MW-14	69.73	58.55	11.18	58.34	11.39	55.56	14.17
ST-MW-16	75.78	55.09	20.69	55.01	20.77	54.85	20.93
ST-MW-17	86.53	71.52	15.01	71.46	15.07	70.80	15.73
ST-MW-19	82.50	65.00	17.50	64.77	17.73	--	--
ST-MW-20	84.53	73.44	11.09	73.25	11.28	71.66	12.87

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	9/28/04 - 9/29/04		10/12/04 -10/13/04		11/3/2004	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.70	14.93	58.97	15.66	58.95	15.68
EPA-MW-21	84.13	66.75	17.38	66.50	17.63	66.41	17.72
EPA-MW-22	82.20	64.41	17.79	64.34	17.86	64.32	17.88
EPA-MW-23	82.83	65.11	17.72	65.00	17.83	64.87	17.96
EPA-MW-27	69.32	52.31	17.01	52.25	17.07	52.26	17.06
ST-MW-02	82.03	65.00	17.03	65.03	17.00	65.00	17.03
ST-MW-06	69.83	44.55	25.28	55.34	14.49	55.29	14.54
ST-MW-09	78.13	62.00	16.13	62.12	16.01	62.15	15.98
ST-MW-11	75.25	60.41	14.84	60.50	14.75	60.34	14.91
ST-MW-12	87.20	72.00	15.20	72.21	14.99	72.22	14.98
ST-MW-14	69.73	56.71	13.02	56.50	13.23	56.49	13.24
ST-MW-16	75.78	55.10	20.68	57.00	18.78	57.01	18.77
ST-MW-17	86.53	70.99	15.54	70.98	15.55	70.95	15.58
ST-MW-19	82.50	64.84	17.66	64.80	17.70	64.79	17.71
ST-MW-20	84.53	71.97	12.56	72.00	12.53	72.55	11.98

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	12/8/2004		1/3/2005		2/7/2005	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.75	14.88	59.10	15.53	57.63	17.00
EPA-MW-21	84.13	66.61	17.52	65.67	18.46	65.80	18.33
EPA-MW-22	82.20	64.33	17.87	64.44	17.76	65.32	16.88
EPA-MW-23	82.83	65.16	17.67	65.10	17.73	64.44	18.39
EPA-MW-27	69.32	52.24	17.08	51.87	17.45	50.85	18.47
ST-MW-02	82.03	64.54	17.49	64.78	17.25	63.90	18.13
ST-MW-06	69.83	44.11	25.72	55.41	14.42	47.32	22.51
ST-MW-09	78.13	59.98	18.15	62.31	15.82	63.44	14.69
ST-MW-11	75.25	60.50	14.75	59.99	15.26	58.64	16.61
ST-MW-12	87.20	71.36	15.84	71.98	15.22	70.45	16.75
ST-MW-14	69.73	55.56	14.17	56.51	13.22	50.15	19.58
ST-MW-16	75.78	54.85	20.93	57.08	18.70	55.15	20.63
ST-MW-17	86.53	70.80	15.73	71.03	15.50	70.75	15.78
ST-MW-19	82.50	64.32	18.18	64.76	17.74	65.01	17.49
ST-MW-20	84.53	71.66	12.87	72.43	12.10	65.09	19.44

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	3/22/2005		4/11/2005		5/19/2005	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	60.00	14.63	60.99	13.64	61.00	13.63
EPA-MW-21	84.13	64.50	19.63	64.00	20.13	63.21	20.92
EPA-MW-22	82.20	64.55	17.65	65.12	17.08	65.43	16.77
EPA-MW-23	82.83	65.00	17.83	65.10	17.73	65.00	17.83
EPA-MW-27	69.32	51.67	17.65	51.60	17.72	51.33	17.99
ST-MW-02	82.03	63.99	18.04	63.89	18.14	63.40	18.63
ST-MW-06	69.83	55.40	14.43	55.42	14.41	55.32	14.51
ST-MW-09	78.13	61.20	16.93	61.78	16.35	61.72	16.41
ST-MW-11	75.25	60.10	15.15	60.00	15.25	59.99	15.26
ST-MW-12	87.20	72.00	15.20	71.21	15.99	71.12	16.08
ST-MW-14	69.73	56.20	13.53	56.33	13.40	56.34	13.39
ST-MW-16	75.78	57.00	18.78	57.10	18.68	57.30	18.48
ST-MW-17	86.53	70.78	15.75	70.00	16.53	59.90	26.63
ST-MW-19	82.50	63.23	19.27	63.00	19.50	63.00	19.50
ST-MW-20	84.53	71.32	13.21	71.21	13.32	71.71	12.82

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	6/15/2005		7/7/2005		8/4/2005	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	58.70	15.93	58.51	16.12	59.07	15.56
EPA-MW-21	84.13	66.35	17.78	66.27	17.83	66.85	17.28
EPA-MW-22	82.20	63.83	18.37	63.78	18.42	64.38	17.82
EPA-MW-23	82.83	64.32	18.51	64.29	18.54	64.88	17.95
EPA-MW-27	69.32	51.45	17.87	51.35	17.97	51.84	17.48
ST-MW-02	82.03	--	--	--	--	--	
ST-MW-06	69.83	45.70	24.13	45.90	23.93	45.80	24.03
ST-MW-09	78.13	63.45	14.68	63.29	14.84	63.94	14.19
ST-MW-11	75.25	--	--	--	--	--	
ST-MW-12	87.20	71.02	16.18	70.71	16.49	71.42	15.78
ST-MW-14	69.73	55.08	14.65	54.99	14.74	55.45	14.28
ST-MW-16	75.78	54.54	21.24	54.71	21.07	54.82	20.96
ST-MW-17	86.53	70.35	16.18	70.17	16.36	70.78	15.75
ST-MW-19	82.50	66.82	15.68	66.89	15.61	66.53	15.97
ST-MW-20	84.53	71.20	13.33	71.07	13.46	71.59	12.94

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	8/30/2005		10/11/2005		11/6/2005	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63			59.28	15.35	60.09	
EPA-MW-21	84.13	67.03	17.10	67.35	16.78	67.14	16.99
EPA-MW-22	82.20	64.52	17.68	64.93	17.27	64.67	17.53
EPA-MW-23	82.83	65.03	17.80	65.43	17.40	65.17	17.66
EPA-MW-27	69.32	55.11	14.21	52.38	16.94	52.27	17.05
ST-MW-02	82.03	64.42	17.61				
ST-MW-06	69.83	46.25	23.58	45.99	23.84	43.69	26.14
ST-MW-09	78.13			64.28	13.85	64.40	13.73
ST-MW-11	75.25		--				--
ST-MW-12	87.20	71.61	15.59	71.68	15.52	71.76	15.44
ST-MW-14	69.73	55.71	14.02	55.71	14.02	57.16	12.57
ST-MW-16	75.78	55.21	20.57	55.78	20.00	54.55	21.23
ST-MW-17	86.53	70.99	15.54	71.09	15.44	71.36	15.17
ST-MW-19	82.50	66.71	15.79	66.90	15.60	66.86	15.64
ST-MW-20	84.53	71.83	12.70	71.78	12.75	74.56	9.97

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	12/19/2005		1/24/2006		2/22/2006	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.19	15.44	59.22	15.41	58.37	16.26
EPA-MW-21	84.13	66.84	17.29	66.55	17.58	65.72	18.41
EPA-MW-22	82.20	64.39	17.81	64.09	18.11	63.38	18.82
EPA-MW-23	82.83	64.89	17.94	64.61	18.22	63.91	18.92
EPA-MW-27	69.32	51.96	17.36	51.72	17.60	51.10	18.22
ST-MW-02	82.03	--	--				
ST-MW-06	69.83	44.43	25.40	44.08	25.75	44.88	24.95
ST-MW-09	78.13	63.96	14.17	63.77	14.36	63.24	14.89
ST-MW-11	75.25	--	--				
ST-MW-12	87.20	71.43	15.77	71.17	16.03	70.58	16.62
ST-MW-14	69.73	55.58	14.15	56.09	13.64	54.86	14.87
ST-MW-16	75.78	54.77	21.01	54.43	21.35	54.17	21.61
ST-MW-17	86.53	70.82	15.71	70.62	15.91	70.03	16.50
ST-MW-19	82.50	66.94	15.56	66.66	15.84	66.46	16.04
ST-MW-20	84.53	71.64	12.89	72.13	12.40	70.81	13.72

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

**HISTORICAL GROUNDWATER ELEVATIONS
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
GREAT NECK, NASSAU COUNTY, NEW YORK**

Well ID	Top of PVC Elevation (ft msl)	4/11/2006		5/2/2006	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.30	15.33	64.90	9.73
EPA-MW-21	84.13	66.23	17.90	63.84	20.29
EPA-MW-22	82.20	63.89	18.31	63.59	18.61
EPA-MW-23	82.83	64.44	18.39	68.99	13.84
EPA-MW-27	69.32	51.72	17.60	51.28	18.04
ST-MW-02	82.03				
ST-MW-06	69.83	46.54	23.29	44.58	25.25
ST-MW-09	78.13	63.96	14.17	63.50	14.63
ST-MW-11	75.25				
ST-MW-12	87.20	71.35	15.85	73.87	13.33
ST-MW-14	69.73	56.10	13.63	55.71	14.02
ST-MW-16	75.78	54.58	21.20	54.63	21.15
ST-MW-17	86.53	70.76	15.77	70.35	16.18
ST-MW-19	82.50	67.13	15.37	66.69	15.81
ST-MW-20	84.53	72.13	12.40	71.80	12.73

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

Appendix I

Indoor Air Quality Analytical Data

Appendix J

Action List Dated April 2006

APRIL 2006 ACTION LIST SUMMARY

PROJECT: Stanton Cleaners
LOCATION: Great Neck, NY
CLIENT: USACE / USEPA

JOB NUMBER: 70536
DATE: May 15, 2006

COMPLETED ITEMS

DATE PERFORMED

Review of Carbon Change out Schedule	(Aqueous Carbon and SVE Vapor Phase in June 2006)
Scheduling of Indoor Air Sampling Event	Planned for May 2006
O&M Inspection/ System Monitoring	4/4/2006
Monthly System Sampling	4/4/2006
Flex Hose of Sub Slab at LIHA Replaced With Hard Piping, Blower Supported	4/4/2006
O&M/ System Monitoring/Air Monitoring	4/11/2006
Change out of Carbon Filters on the Rooftop of the LIHA	4/11/2006
O&M Inspection/ System Monitoring	4/18/2006
Replacement of Broken Actuator for Well EPA-EXT-02	4/18/2006

OUTSTANDING ITEMS

RECOMMENDED SOLUTION

Revision to O&M manual to reflect changes in GWP&T	Completed
Indoor Air Sampling	To be performed May 2006
Change out of R2D2's in treatment Building	To be performed first week in May
Groundwater Monitoring Well Sampling	To be performed Week of May 23, 2006
Replacement of System Oil and Grease	To be performed first week in May 2006