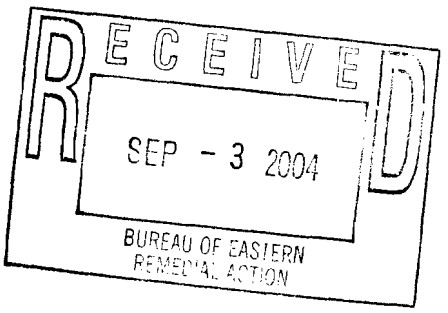

August 31, 2004

Mr. Shewen Bian
US Army Corps of Engineers, Metro East Residency
Fort Hamilton Military Community
408 Pershing Loop
Brooklyn, NY 11252

RE: **Transmittal of July 2004 Monthly O&M Activity Reports**
Stanton Cleaners Area Groundwater Contamination Site, Great Neck, New York
USACE LTRA Contract DACW41-03-D-0004, T.O. 001

Dear Mr. Bian:

Environmental Chemical Corporation (ECC) is transmitting in this letter one hardcopy of the July 2004 Monthly O&M Activity Reports for the Stanton Cleaners LTRA site. This Report includes groundwater analytical (through June 2004). As of this date, the July O&M sampling data has not yet been received from the CLP lab. To date, all effluent data has been below the discharge criteria with detectable concentrations of PCE in the effluent below the discharge limits. ECC will continue to monitor the effluent concentrations for month of July and determine the need for carbon change out. ECC will immediately identify all parties copied on this letter, upon discovery, if any analytical results are outside compliance criteria.

Please review the attached report, and let us know if you have any comments, or require additional information.

If you have any questions, please contact me at (973) 338-7011, ext. 121.

Sincerely,
Environmental Chemical Corporation

Dave Miller
Digitally signed by Dave Miller
DN: cn=Dave Miller, o=ECC, c=US
Date: 2004.09.31 17:07:56 -04'00'

David Miller
Project Manager

cc: Mr. Damian Duda, US EPA Region II – 2 copies, and softcopy via e-mail
Mr. Gerard Burke, NYSDEC – 1 softcopy via electronic mail and 1 hardcopy via mail courier:
Division of Env. Remediation
625 Broadway - 11th Floor
Albany, New York 12233-7015
gwburke@gw.dec.state.ny.us
(518) 402-9798

Monthly Operations and Monitoring Report
July 2004

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

Prepared by:
Earth Tech, Inc.
7870 Villa Park Drive, Suite 400
Richmond, Virginia 23228

August 1, 2004

ET Project No. 70536.02.01.01

Monthly Operations and Monitoring Report
July 2004

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

Prepared by:
Earth Tech, Inc.
7870 Villa Park Drive, Suite 400
Richmond, Virginia 23228

August 1, 2004

ET Project No. 70536.02.01.01

Author: *John Huisman*

Title: *Environmental Scientist*

Date: August 1, 2004

Reviewer: _____

Title: _____

Date: _____

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Tables

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Appendices

1.0 INTRODUCTION

This Monthly Operations and Monitoring Report, July 2004 (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 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 July 1 and July 31, 2004.

2.0 SUMMARY OF ACTIVITIES DURING JULY 2004

The following list summarizes activities performed and milestone dates under this contract during the reporting period, July 2004:

- July 8 – Weekly O&M Inspection & Bi-weekly system air monitoring. Replace broken SVE belt.
- July 13 – Influent / effluent treatment system water sampling event
- July 14 – Weekly O&M Inspection.
- July 15 – Influent / effluent treatment system water sampling event.
- July 16 – Weekly O&M Inspection.
- July 21 – Monthly groundwater levels recorded. Weekly O&M Inspection.
- July 22 – Monthly groundwater levels recorded & Bi-weekly system air monitoring.
- July 26 –Replace broken SVE blower belt.
- July 28 – Weekly O&M Inspection.

Details of system shutdowns and alarms during the month of July 2004 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 2,671,276.3 gallons during the month of July 2004. The system was operational (recovery well pumps running) for approximately 744 of the 744 hours during the month, for an average operating flow of 59.8 gallons per minute (gpm). The system has treated a total of 71,295,020.6 gallons since the plant startup in November 2001.

There were two system shutdowns during July 2004 due to suspected power outages in Great Neck. Once on July 2 at 6:34 PM and once on July 6 at 8:26 AM. The system was restarted immediately after both shutdowns.

There are currently two recovery wells pumping water into the system. (EPA-EXT-02 and MW-24) Both wells are located in the triangle, the corner of New Cuttermill Road and Mirrielees Road. The two wells are manifolded 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. The decision to have two wells pumping from the triangle into the system was made by the USEPA.

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 July 8, 14, 21 and 28, 2004 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 John Huisman). If they require guidance or notes any serious conditions, the inspector notifies the task manager (Tom Williams). The checklists are completed on site and sent to the task manager 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 2004 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.

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 July 13, 2004. The samples were shipped to the USEPA Region II Lab, located in Edison, New Jersey for analysis of TCL volatile organic compounds. A copy of the full sampling trip report containing the chain of custody forms and FedEx airbill 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 August 16, 2004.

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 - discharge (post-treatment).

Bi-weekly air monitoring activities were conducted on July 8 and 22, 2004. The bi-weekly air monitoring logs are included in Appendix F. The SVE system was manually shutdown per the USEPA OSC's request during soil gas and indoor air sampling performed at the site. The SVE system will remain shutdown until otherwise directed by the OSC. 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 August 13, 2004.

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 last quarterly groundwater sampling event performed under this contract by Earth Tech personnel was conducted April 5 through 9, 2004. The next quarterly groundwater sampling event is scheduled for August 2004.

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 July 21 & 22, 2004. The location and number of monitoring wells was determined by the USEPA based on the site Capture Zone Analysis Plan. Groundwater level measurements for July 2004 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 designated EPA, CLP lab for analysis. The location and number of indoor air quality samples to be collected as well as analytical parameters will be determined by the USEPA, USACE and ECC.

The last quarterly indoor air quality sampling event was conducted on April 21, 2004 by Earth Tech personnel. The next quarterly indoor air quality sampling event will be performed by Earth Tech personnel in August 2004.

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;
- Collect indoor air quality samples as directed by USACE/ECC/USEPA.

8.0 PROBLEM AREAS AND RECOMMENDED SOLUTIONS (OUTSTANDING ISSUES)

An 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.

Tables

TABLE 1
ESTIMATED PCE RECOVERY RATES
STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
250 CFM SVE SYSTEM
September 2003 - July 2004

Date	# of Days	Flow Rate (cfm)	Flow Rate Avg (cfm)	VOC Concentration (ppm)	VOC Average (ppm)	VOC Discharge Rate (lbs/day)	VOC Total Discharge (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

Notes:

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.

$$M_{air} = Q_{air} \times C_{air} \times \frac{0.0283\ m3}{ft.3} \times \frac{1440\ min.}{day} \times \frac{2.2\ lbs.}{1000000\ mg}$$

$$C_{air\ (mg/m3)} = \frac{Conc\ (ppmv)}{1E+06} \times \frac{1\ mole\ air}{24.1\ L} \times \frac{1000\ L}{m3} \times \frac{1000\ mg}{g} \times MW_x$$

Notes:
Mair = mass loading, removal rate in air (lbs/day)
Qair = flow rate in air (cfm)
Cair = contaminant concentration (mg/m3)
MWx = 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 Farenheit (0 degrees Celcius), 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 - July 2004

Date		Flow Rate		VOC			
	# of Days	(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
						Total	190.1

Notes:

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.

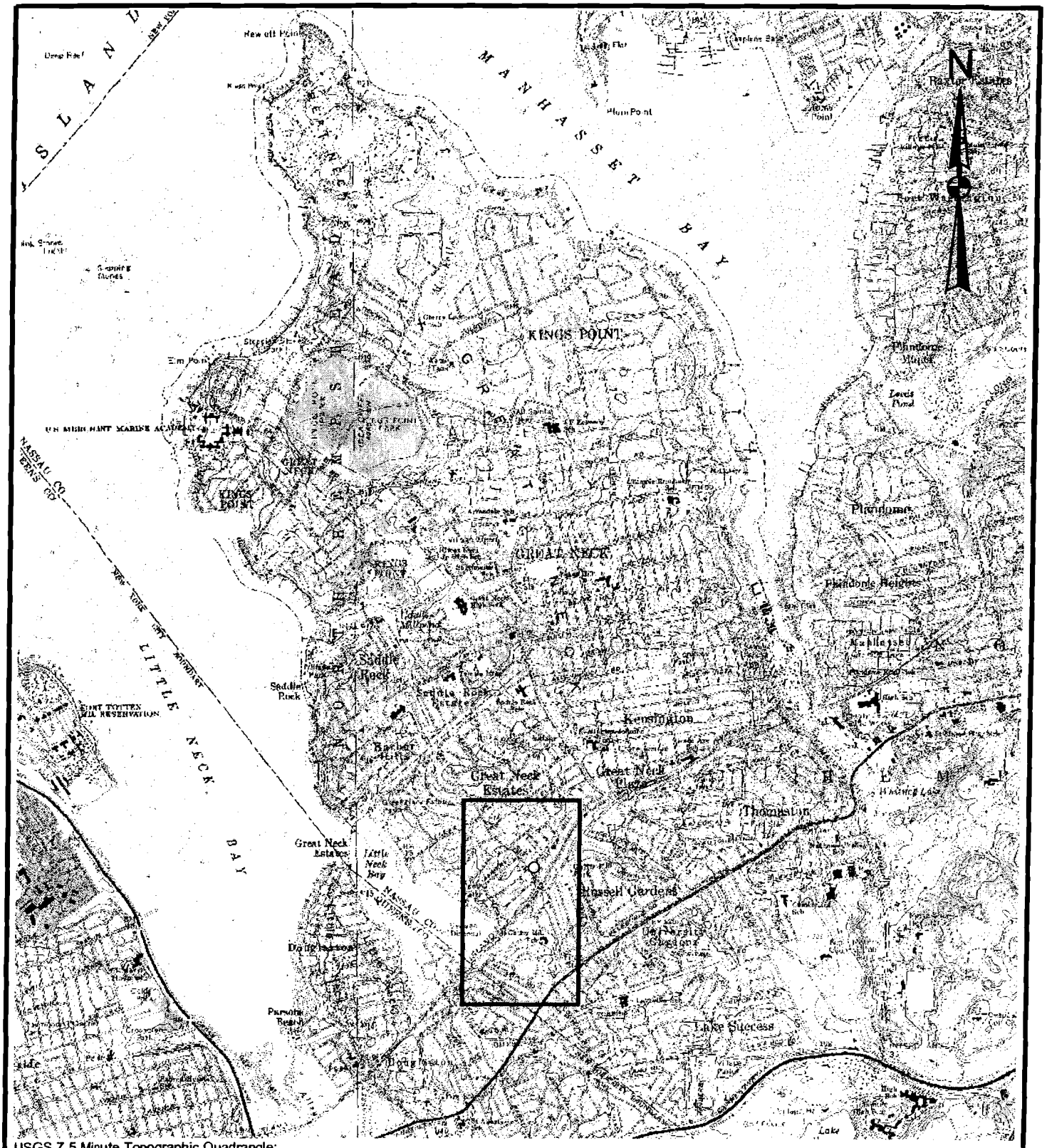
$$M_{air} = Q_{air} \times C_{air} \times \frac{0.0283\ m3}{ft.3} \times \frac{1440\ min.}{day} \times \frac{2.2\ lbs.}{1000000\ mg}$$

$$C_{air\ (mg/m3)} = \frac{Conc\ (ppmv)}{1E+06} \times \frac{1\ mole\ air}{24.1\ L} \times \frac{1000\ L}{m3} \times \frac{1000\ mg}{g} \times MW_x$$

Notes:
Mair = mass loading, removal rate in air (lbs/day)
Qair = flow rate in air (cfm)
Cair = contaminant concentration (mg/m3)
MWx = 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 Farenheit (0 degrees Celcius), the conversion is (1 mole air)/(22.4 L).

Figures



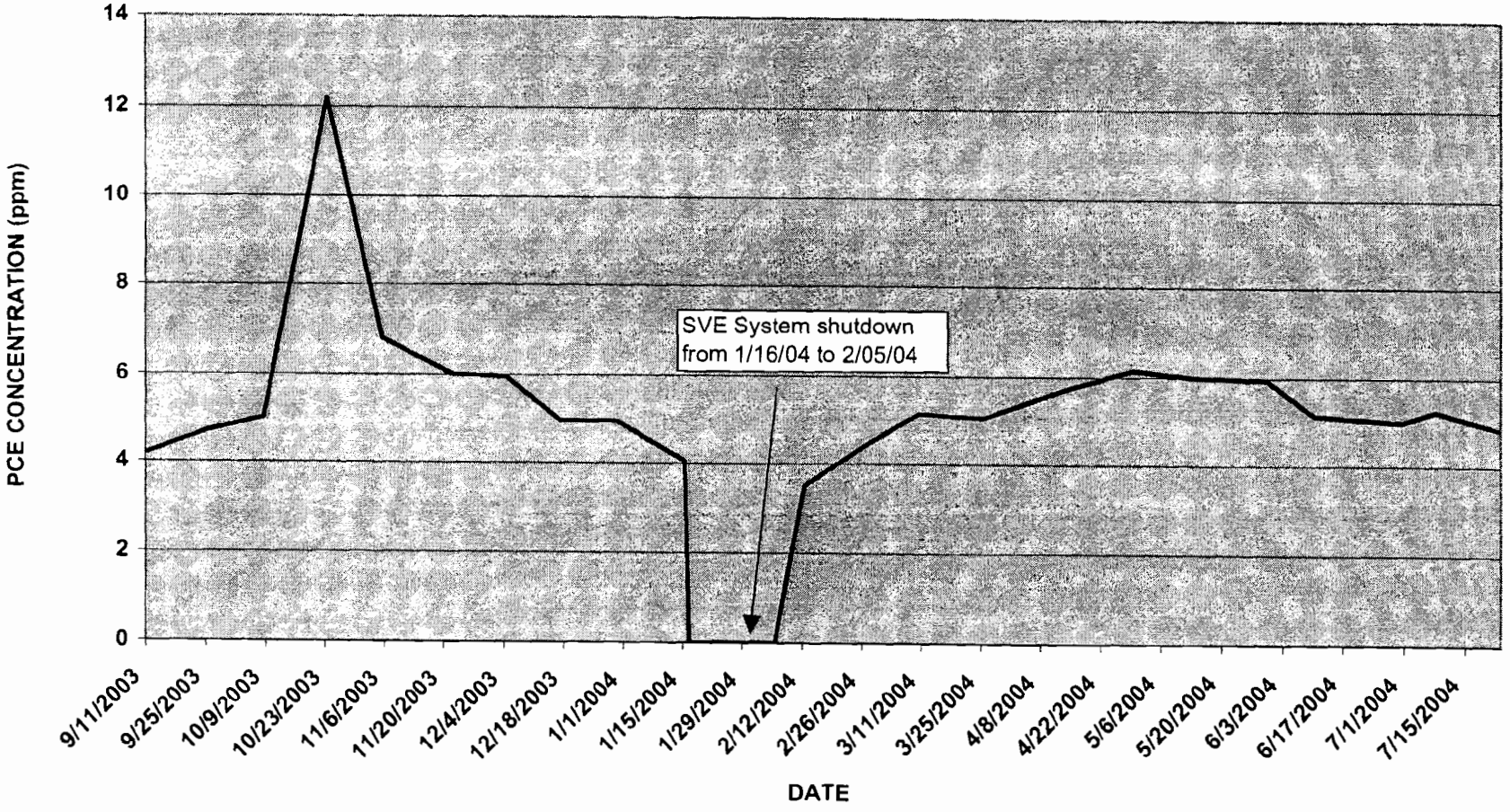
EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

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 GOUNDWATER CONTAMINATION SITE
AVERAGE PCE CONCENTRATIONS (ppm)
250 CFM FINAL SVE SYSTEM
September 2003 - July 2004



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: 7/08/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather					**Sunny**		
Temp.					**80°F**		
Wind					**Mild**		
Humidity					**Low**		

Earth Tech Personnel On-Site: **Jimmy Simmonds, Randy Bryant**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Ford F-250, F-150, and general hand tools.**

Work Performed (include sampling; list by NAS number if applicable):
Perform Weekly O&M Inspection.
Replace SVE Blower Belt.

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**

Test required and inspection techniques to be executed to prove contract compliance (include both expected and

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: 7/08/04 | Earth Tech Project No.: 70536

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 System Sampling (Week Ending 7/16/04)

Weekly O&M Inspection (Week Ending 7/16/04)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (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: John Huisman (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: 7/13/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather			**Sunny**				
Temp.			**85°F**				
Wind			**Mild**				
Humidity			**Low**				

Earth Tech Personnel On-Site: **John Huisman**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Chevy Tahoe, Horiba U-22 Water Quality Meter, Sample bottles, and cooler.**

Work Performed (include sampling; list by NAS number if applicable):
Perform Monthly System Influent Effluent Sampling.

Quality Control Activities (including field calibrations): **Calibrated Horiba U-22 water quality meter.**

Isobutylene Cal Gas **Calibration Gas Mix**
Lot # 76124 **Lot # 76270**
100 ppm **H_2S: 25 ppm** **0_2: 20.9%**
CO: 50 ppm **LEL: 50%**

Horiba U-22 Auto Cal Solution: PH: 4.0 Conductivity: 4.49mS/cm Turbidity: 0.0 NTU

Collect MS/MSD (QA/QC sample) from SC-04 (Effluent). Collect Duplicate sample of SC-01 (influent) labeled SC-69. Included Trip Blank in Sample Cooler. Include Temp Blank.

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**

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: 7/13/04 | Earth Tech Project No.: 70536

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 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:
Influent / Effluent water samples collected were shipped to: USEPA Lab located in The Edison, NJ.
Fedex airbill number for shipped samples: 842135658512
Case number: N/A
Traffic Report Number: 2-462971652-071304-0001
Copies of chains-of-custody faxed to Dave Miller, Jennifer Ferranda, Robert Toth, and Adly Michael.
Electronic XML file of the TR/COC was sent via email to Heather Bauer.

Tomorrow's Expectations:
Weekly O&M Inspection (7/14/04)
Water Level Measurements (7/21/04)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (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: John Huisman (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: 7/14/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather				**Cloudy**			
Temp.				**79°F**			
Wind				**None**			
Humidity				**Low**			

Earth Tech Personnel On-Site: **Jimmy Simmonds, Randy Bryant**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Ford F-250, F-150, and general hand tools.**

Work Performed (include sampling;list by NAS number if applicable):
Perform Weekly O&M Inspection.

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**

Test required and inspection techniques to be executed to prove contract compliance (include both expected and

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: 7/14/04	Earth Tech Project No.: 70536

actual results): **N/A**

Has a phase hazard analysis been perform ed? **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 a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Explained in work performed section.

Follow-up Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Special Notes:

Tomorrow's Expectations:

Monthly Water Levels (7/21/04)

Bi-weekly Air Monitoring (7/22/04)

By: John Huism an	Title: Environmental Scientist
Signature: John Huisman	(Quality Control Representative/Manager)

The above report is complete and correct. All materials and equipm ent used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Signature: John Huisman (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: 7/21/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather				**Sunny**			
Temp.				**80°F**			
Wind				**None**			
Humidity				**low**			

Earth Tech Personnel On-Site: **John Huisman**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Chevy Tahoe, Solinst Water Level Meter, General Hand Tools.**

Work Performed (include sampling;list by NAS number if applicable):
Performed Monthly Water Level Measurements.

Quality Control Activities (including field calibrations):
Decontaminate Solinst water level meter before each use with DI water and Liquinox solution and DI Water rinse.

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 and actual results): **N/A**

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: 7/21/04 | Earth Tech Project No.: 70536

Has a phase hazard analysis been perform ed? **Included in the Site Specific Health & Safety Plan**

Comments and deficiencies noted and corrective actions taken: **Explained in the work performed section.**

Initial Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Explained in the work performed section.

Follow-up Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Special Notes:

Several of the well caps and lids are damaged and require repair and /or replacement.

Tomorrow's Expectations:

Complete Monthly Water Levels (7/22/04)

Weekly O&M Inspection (7/22/04)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (Quality Control Representative/Manager)

The above report is complete and correct. All materials and equipm ent used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Signature: John Huisman (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: 7/22/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather					**Cloudy**		
Temp.					**75°F**		
Wind					**None**		
Humidity					**low**		

Earth Tech Personnel On-Site: **John Huisman, Jimmy Simmonds, and Randy Bryant**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Chevy Tahoe, Solinst Water Level Meter, General Hand Tools. Ford F-250, F-150.**

Work Performed (include sampling;list by NAS number if applicable):
Performed Monthly Water Level Measurements.
Perform Weekly O&M Inspection.

Quality Control Activities (including field calibrations):
Decontaminate Solinst water level meter before each use with DI water and Liquinox solution and DI Water rinse.

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 and actual results): **N/A**

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: 7/22/04	Earth Tech Project No.: 70536

Has a phase hazard analysis been perform ed? **Included in the Site Specific Health & Safety Plan**

Comments and deficiencies noted and corrective actions taken: **Explained in the work performed section.**

Initial Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Explained in the work performed section.

Follow-up Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Special Notes:

Several of the well caps and lids are damaged and require repair and /or replacement.

Tomorrow's Expectations:

Weekly O&M Inspection (7/30/04/)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (Quality Control Representative/Manager)

The above report is complete and correct. All materials and eqipm ent used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Signature: John Huisman (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: 7/26/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather		**Cloudy**					
Temp.		**76°F**					
Wind		**Mild**					
Humidity		**low**					

Earth Tech Personnel On-Site: **Randy Bryant**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **General Hand Tools. Ford F-150.**

Work Performed (include sampling;list by NAS number if applicable):
Replace SVE Blower Belt

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**

Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): **N/A**

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: 7/26/04 | Earth Tech Project No.: 70536

Has a phase hazard analysis been perform ed? **Included in the Site Specific Health & Safety Plan**

Comments and deficiencies noted and corrective actions taken: **Explained in the work performed section.**

Initial Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Explained in the work performed section.

Follow-up Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Special Notes:

Tomorrow's Expectations:

Weekly O&M Inspection (7/30/04/)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (Quality Control Representative/Manager)

The above report is complete and correct. All materials and equipm ent used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Signature: John Huisman (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: 7/28/04 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather				**Sunny**			
Temp.				**82°F**			
Wind				**Mild**			
Humidity				**Low**			

Earth Tech Personnel On-Site: **Jimmy Simmonds, Randy Bryant**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Ford F-250, F-150, and general hand tools.**

Work Performed (include sampling;list by NAS number if applicable):
Perform Weekly O&M Inspection.

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**

Test required and inspection techniques to be executed to prove contract compliance (include both expected and

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: 7/28/04 | Earth Tech Project No.: 70536

actual results): **N/A**

Has a phase hazard analysis been perform ed? **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 a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Explained in work performed section.

Follow-up Inspection: List all inspections by subject a nd specification location. Comment and/or deficiencies noted and corrective actions taken.

Special Notes:

Tomorrow's Expectations:

Quarterly Groundwater Sampling Event (Week Ending 8/6/04)

By: John Huisman Title: Environmental Scientist

Signature: John Huisman (Quality Control Representative/Manager)

The above report is complete and correct. All materials and equipm ent used and all work performed during this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Signature: John Huisman (Contractor's Authorized Representative)

Appendix B

Groundwater Treatment System Operation & Maintenance Checklists

7/8/04

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE

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.

1. Recovery Well EPA-EXT-02 flow[1] _____57_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____50_____ %
3. Recovery Well IW-01 flow _____NA_____ GPM
4. Recovery Well IW-01 valve open _____NA_____ %
5. Recovery Well EPA-EXT-03 flow _____NA_____ GPM
6. Recovery Well EPA-EXT-03 valve open _____NA_____ %
7. Recovery Well pH _____6.7_____ pH
8. Recovery Well conductivity _____.57_____ micromhos
9. Air Stripper pH _____7.8_____ pH
10. Air Stripper temperature _____158_____ deg.
11. Air Stripper air flow _____2179_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2396_____ CFM
14. Discharge conductivity _____5.7_____ micromhos
15. Discharge pH _____8.1_____ pH

---

[1] *Wells EPA-EXT-02 and MW-24 wells are manifolded 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.*

16. Discharge flow _____70_____ GPM

17. Discharge total gallons _____70609801_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____85_____ CFM

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

1. Recovery Well EPA-EXT-02 total flow _____40057_____ Gal

2. Recovery Well IW-01 total flow _____NA_____ Gal

3. Recovery Well EPA-EXT-03 total flow _____NA_____ Gal

5. Recovery Well pH _____6.76_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.83_____ pH

8. Air Stripper temperature _____15.8_____ deg.

9. Air Stripper Pump water flow _____36 _____ GPM

10. Air Stripper Pump pressure _____4.5_____ PSI

11. Discharge conductivity _____.56_____ micromhos

12. Discharge pH _____8.11_____ pH

13. Discharge total gallons _____6903_____ Gal

14. SVE inlet vacuum (digital readout) _____2.0_____ "Hg

15. SVE inlet vacuum _____4.5_____ "Hg

16. SVE post knockout vacuum _____-4.5_____ "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.

Notes:

Replaced SVE blower belt today.

7/14/04

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE

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.

1. Recovery Well EPA-EXT-02 flow[1] _____59_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____50_____ %
3. Recovery Well IW-01 flow _____NA_____ GPM
4. Recovery Well IW-01 valve open _____NA_____ %
5. Recovery Well EPA-EXT-03 flow _____NA_____ GPM
6. Recovery Well EPA-EXT-03 valve open _____NA_____ %
7. Recovery Well pH _____6.7_____ pH
8. Recovery Well conductivity _____.57_____ micromhos
9. Air Stripper pH _____7.7_____ pH
10. Air Stripper temperature _____157_____ deg.
11. Air Stripper air flow _____1863_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2544_____ CFM
14. Discharge conductivity _____5.8_____ micromhos
15. Discharge pH _____8.1_____ pH

---

[1] *Wells EPA-EXT-02 and MW-24 wells are manifolded 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.*

16. Discharge flow _____74_____ GPM

17. Discharge total gallons _____71144256_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____81_____ CFM

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

1. Recovery Well EPA-EXT-02 total flow _____45235_____ Gal

2. Recovery Well IW-01 total flow _____NA_____ Gal

3. Recovery Well EPA-EXT-03 total flow _____NA_____ Gal

5. Recovery Well pH _____6.76_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.78_____ pH

8. Air Stripper temperature _____15.7_____ deg.

9. Air Stripper Pump water flow _____37 _____ GPM

10. Air Stripper Pump pressure _____35.5_____ PSI

11. Discharge conductivity _____.56_____ micromhos

12. Discharge pH _____8.09_____ pH

13. Discharge total gallons _____12341_____ Gal

14. SVE inlet vacuum (digital readout) _____2.0_____ "Hg

15. SVE inlet vacuum _____5.5_____ "Hg

16. SVE post knockout vacuum _____-5.25_____ "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.

Notes:

7/21/04

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE

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.

1. Recovery Well EPA-EXT-02 flow[1] _____58_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____50_____ %
3. Recovery Well IW-01 flow _____NA_____ GPM
4. Recovery Well IW-01 valve open _____NA_____ %
5. Recovery Well EPA-EXT-03 flow _____NA_____ GPM
6. Recovery Well EPA-EXT-03 valve open _____NA_____ %
7. Recovery Well pH _____6.8_____ pH
8. Recovery Well conductivity _____.57_____ micromhos
9. Air Stripper pH _____7.8_____ pH
10. Air Stripper temperature _____158_____ deg.
11. Air Stripper air flow _____1813_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____1709_____ CFM
14. Discharge conductivity _____5.8_____ micromhos
15. Discharge pH _____8.1_____ pH

---

[1] *Wells EPA-EXT-02 and MW-24 wells are manifolded 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.*

16. Discharge flow _____75_____ GPM

17. Discharge total gallons _____71749476_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____81_____ CFM

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

1. Recovery Well EPA-EXT-02 total flow _____51070_____ Gal

2. Recovery Well 1W-01 total flow _____NA_____ Gal

3. Recovery Well EPA-EXT-03 total flow _____NA_____ Gal

5. Recovery Well pH _____6.78_____ pH

6. Recovery Well conductivity _____0.60_____ micromhos

7. Air Stripper pH _____7.90_____ pH

8. Air Stripper temperature _____15.7_____ deg.

9. Air Stripper Pump water flow _____off _____ GPM

10. Air Stripper Pump pressure _____off_____ PSI

11. Discharge conductivity _____.58_____ micromhos

12. Discharge pH _____8.15_____ pH

13. Discharge total gallons _____18470_____ Gal

14. SVE inlet vacuum (digital readout) _____2.0_____ "Hg

15. SVE inlet vacuum _____-6_____ "Hg

16. SVE post knockout vacuum _____6_____ "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.

Notes:

7/28/04

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE

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.

1. Recovery Well EPA-EXT-02 flow[1] _____59_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____50_____ %
3. Recovery Well IW-01 flow _____NA_____ GPM
4. Recovery Well IW-01 valve open _____NA_____ %
5. Recovery Well EPA-EXT-03 flow _____NA_____ GPM
6. Recovery Well EPA-EXT-03 valve open _____NA_____ %
7. Recovery Well pH _____6.7_____ pH
8. Recovery Well conductivity _____.57_____ micromhos
9. Air Stripper pH _____7.8_____ pH
10. Air Stripper temperature _____158_____ deg.
11. Air Stripper air flow _____1906_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2544_____ CFM
14. Discharge conductivity _____5.8_____ micromhos
15. Discharge pH _____8.0_____ pH

---

[1] *Wells EPA-EXT-02 and MW-24 wells are manifolded 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.*

16. Discharge flow _____72_____ GPM

17. Discharge total gallons _____72357941_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____87_____ CFM

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

1. Recovery Well EPA-EXT-02 total flow _____56940_____ Gal

2. Recovery Well IW-01 total flow _____NA_____ Gal

3. Recovery Well EPA-EXT-03 total flow _____NA_____ Gal

5. Recovery Well pH _____6.77_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.84_____ pH

8. Air Stripper temperature _____15.8_____ deg.

9. Air Stripper Pump water flow _____38_____ GPM

10. Air Stripper Pump pressure _____36_____ PSI

11. Discharge conductivity _____.56_____ micromhos

12. Discharge pH _____8.07_____ pH

13. Discharge total gallons _____24631_____ Gal

14. SVE inlet vacuum (digital readout) _____2.2_____ "Hg

15. SVE inlet vacuum _____6_____ "Hg

16. SVE post knockout vacuum _____-5.75_____ "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.

Notes:

Appendix C

Groundwater Treatment System Downloaded Operational Data

Stanton Cleaners Groundwater Contamination Site - July 2004 - Site Operation Data

	Recovery Well 1 Flow (GPM)	Recovery Well 2 Flow (GPM)	Recovery Well 3 Flow (GPM)	Discharge Flow (GPM)	Discharge Flow (CFM)	Influent water Temperature (deg F)	Influent conductivity	Effluent conductivity	Influent water pH	Air Stripper water pH	Discharge water pH	Total gallons discharged	Air Stripper Air Flow	Combined Discharge Air Flow	SVE Air Flow
7/1/2004 0:00	0	0	59	71	2394	155	58	57	6.7	7.8	8.1	69976928.5	2068	2394	0
7/1/2004 4:00	0	0	59	70	2544	156	58	57	6.7	7.8	8.1	69991235.6	2204	2544	0
7/1/2004 8:00	0	0	57	71	2295	156	57	57	6.7	7.7	8.1	70003617.4	2196	2295	0
7/1/2004 12:00	0	0	57	70	2394	157	57	57	6.7	7.8	8.1	70020389.8	2149	2394	1
7/1/2004 16:00	0	0	61	74	2178	158	57	58	6.7	7.8	8.1	70034883.6	2078	2178	1
7/1/2004 20:00	0	0	58	73	2341	157	57	58	6.7	7.8	8.1	70049248.9	2109	2341	1
7/2/2004 0:00	0	0	57	71	2341	157	57	57	6.7	7.8	8.1	70063616.8	2167	2341	1
7/2/2004 4:00	0	0	60	71	2500	157	57	58	6.7	7.8	8.1	70078388.6	2042	2500	1
7/2/2004 8:00	0	0	60	73	2341	157	57	58	6.7	7.7	8.1	70092668.9	2170	2341	0
7/2/2004 12:00	0	0	57	74	2341	156	57	57	6.7	7.8	8.1	70107193.3	1910	2341	0
7/2/2004 16:00	0	0	58	70	2183	157	58	58	6.7	7.8	8.1	70121697.1	2076	2183	1
7/2/2004 20:00	0	0	58	10	2500	157	57	58	6.7	7.8	8.1	70134283.3	2041	2500	0
7/3/2004 0:00	0	0	57	72	2500	156	58	57	6.7	7.7	8.1	70148546.3	1941	2500	0
7/3/2004 4:00	0	0	58	74	2445	156	57	58	6.7	7.7	8.1	70163103	2106	2445	0
7/3/2004 8:00	0	0	58	71	2254	156	58	56	6.7	7.7	8.1	70177867.5	2057	2254	0
7/3/2004 12:00	0	0	60	4	2153	156	57	57	6.7	7.8	8.1	70192176.6	2022	2153	0
7/3/2004 16:00	0	0	57	74	2553	156	57	57	6.7	7.8	8.1	70206497	1941	2553	1
7/3/2004 20:00	0	0	57	73	2447	156	57	58	6.7	7.8	8.1	70221016.6	2010	2447	0
7/4/2004 0:00	0	0	58	70	2500	156	57	56	6.7	7.7	8.1	70235523.8	2114	2500	0
7/4/2004 4:00	0	0	60	72	2394	155	57	56	6.7	7.7	8.1	70250075.4	2122	2394	0
7/4/2004 8:00	0	0	58	71	2295	156	57	57	6.7	7.7	8.1	70264334.2	2179	2295	1
7/4/2004 12:00	0	0	59	73	2394	156	57	57	6.7	7.8	8.1	70278866.1	2115	2394	0
7/4/2004 16:00	0	0	59	73	2502	156	57	57	6.7	7.8	8.1	70293397	2173	2502	0
7/4/2004 20:00	0	0	58	73	2394	156	57	57	6.7	7.8	8.1	70307932.7	2113	2394	1
7/5/2004 0:00	0	0	60	73	2399	157	57	57	6.7	7.8	8.1	70322454.3	2135	2399	1
7/5/2004 4:00	0	0	58	0	2357	157	57	57	6.7	7.8	8.1	70338997	2108	2357	1
7/5/2004 8:00	0	0	58	72	2498	158	57	58	6.7	7.8	8.1	70351223.5	2179	2498	0
7/5/2004 12:00	0	0	58	69	2153	158	57	58	6.7	7.8	8.1	70365713.7	2035	2153	1
7/5/2004 16:00	0	0	58	74	2341	159	57	58	6.7	7.8	8.1	70380229.1	1969	2341	0
7/5/2004 20:00	0	0	57	75	2183	159	57	58	6.7	7.8	8.1	70394741.7	1864	2183	1
7/6/2004 0:00	0	0	60	75	2183	158	51	58	6.7	7.7	8.1	70409246	1993	2183	0
7/6/2004 4:00	0	0	57	70	2445	156	50	57	6.7	7.6	8.1	70423779.5	2098	2445	0
7/6/2004 8:00	0	0	58	70	2500	158	57	57	6.7	7.6	8.1	70438281.4	2144	2500	0
7/6/2004 12:00	0	0	61	70	2298	156	57	57	6.7	7.8	8.1	70445647.5	1957	2298	0
7/6/2004 16:00	0	0	59	72	2298	157	57	57	6.7	7.8	8.1	70460153.3	2257	2298	0
7/6/2004 20:00	0	0	59	72	2341	157	57	58	6.7	7.8	8.1	70474677.7	2201	2341	0
7/7/2004 0:00	0	0	58	72	2394	156	57	57	6.7	7.8	8.1	70489188.4	2169	2394	1
7/7/2004 4:00	0	0	59	74	2408	156	58	57	6.7	7.7	8.1	70503696.9	2054	2408	1
7/7/2004 8:00	0	0	58	71	2544	156	57	57	6.7	7.7	8.1	70518184.6	2023	2544	1
7/7/2004 12:00	0	0	58	70	2254	157	57	58	6.7	7.8	8.1	70532651.1	2074	2254	0
7/7/2004 16:00	0	0	58	0	2505	157	57	57	6.7	7.8	8.1	70546930.8	2062	2505	1
7/7/2004 20:00	0	0	58	72	2502	157	57	57	6.7	7.8	8.1	70561355.3	2036	2502	1
7/8/2004 0:00	0	0	60	70	2394	157	57	58	6.7	7.8	8.1	70575945.7	2138	2394	1
7/8/2004 4:00	0	0	59	70	2502	157	57	58	6.7	7.8	8.1	70590339.3	2028	2502	1
7/8/2004 8:00	0	0	61	71	2256	158	57	58	6.7	7.8	8.1	70604830.5	1977	2256	0
7/8/2004 12:00	0	0	59	71	2396	158	57	58	6.6	7.8	8.1	70619308	1992	2396	71
7/8/2004 16:00	0	0	59	70	2544	158	58	57	6.6	7.8	8.2	70633779.6	1802	2544	70
7/8/2004 20:00	0	0	58	72	2498	157	57	57	6.8	7.8	8.1	70648240.4	1915	2498	80
7/9/2004 0:00	0	0	59	3	2509	157	57	57	6.6	7.7	8.1	70662629.4	2088	2509	75
7/9/2004 4:00	0	0	58	70	2537	156	57	57	6.7	7.7	8.1	70676892.8	2058	2537	75
7/9/2004 8:00	0	0	59	73	2394	156	58	57	6.7	7.7	8.1	70691392.4	1931	2394	75
7/9/2004 12:00	0	0	61	72	2544	156	57	57	6.7	7.8	8.1	70705898.8	1992	2544	75
7/9/2004 16:00	0	0	57	70	2601	156	57	57	6.7	7.8	8.1	70720378	2027	2601	75
7/9/2004 20:00	0	0	58	74	2394	155	57	57	6.7	7.8	8.1	70734845.3	1942	2394	80
7/10/2004 0:00	0	0	59	6	2544	155	57	56	6.7	7.7	8.1	70749322.1	2176	2544	81
7/10/2004 4:00	0	0	57	75	2548	155	57	57	6.7	7.7	8	70763586.6	2089	2548	78
7/10/2004 8:00	0	0	57	72	2553	156	57	56	6.7	7.7	8.1	70778081.2	2032	2553	81
7/10/2004 12:00	0	0	58	70	2341	156	57	57	6.7	7.8	8.1	70792558.6	2093	2341	74
7/10/2004 16:00	0	0	60	71	2509	157	57	58	6.8	7.8	8.1	70807045.2	1964	2509	80
7/10/2004 20:00	0	0	59	73	2691	156	57	57	6.7	7.8	8.1	70821504	2071	2691	70
7/11/2004 0:00	0	0	58	5	2553	157	57	57	6.7	7.7	8	70835929.4	2209	2553	79
7/11/2004 4:00	0	0	59	70	2396	156	57	57	6.7	7.7	8	70850183.7	2189	2396	77
7/11/2004 8:00	0	0	59	71	2394	156	57	57	6.7	7.7	8.1	70864681.6	1939	2394	81
7/11/2004 12:00	0	0	58	70	2447	157	57	57	6.7	7.8	8.1	70879145.6	1890	2447	75
7/11/2004 16:00	0	0	59	71	2601	157	57	57	6.8	7.8	8.1	70893621.6	1940	2601	78
7/11/2004 20:00	0	0	58	70	2403	157	58	57	6.8	7.8	8.2	70908075	1987	2403	75
7/12/2004 0:00	0	0	57	74	2396	157	57	57	6.7	7.8	8.1	70922546.6	2059	2396	75
7/12/2004 4:00	0	0	59	0	2447	158	57	57	6.7	7.8	8.1	70936778.1	2012	2447	81
7/12/2004 8:00	0	0	57	73	2417	157	57	57	6.7	7.8	8.1	70951205.6	2032	2417	77
7/12/2004 12:00	0	0	58	71	2601	157	57	57	6.7	7.8	8.1	70965653.8	1880	2601	76
7/12/2004 16:00	0	0	57	74	2555	157	56	58	6.7	7.8	8.1	70980125.7	2003	2555	81
7/12/2004 20:00	0	0	58	71	2771	158	57	57	6.7	7.8	8.1	70994598.8	1992	2771	81
7/13/2004 0:00	0	0	57	70	2620	156	57	57	6.7	7.8	8.1	71009059.8	2002	2620	78
7/13/2004 4:00	0	0	58	74	2544	156	57	56	6.7	7.8	8.1	71023543.4	2012	2544	76
7/13/2004 8:00	0	0	58	70	2553	156	57	57	6.7	7.7	8.1	71038039.2	1931	2553	77
7/13/2004 12:00	0	0	60	72	2601	156	48	57	6.7	7.8	8.1	71052510.7	1970	2601	81
7/13/2004 16:00	0	0	57	71	2544	156	57	58	6.7	7.7	8.1	71067005	1819	2544	81
7/13/2004 20:00	0	0	57	73	2553	156	57	57	6.7	7.7	8.1	71081471.7	1949	2553	76
7/14/2004 0:00	0	0	58	74	2394	158	57	57	6.7	7.7	8	71095948.1	1985	2394	81
7/14/2004 4:00	0	0	57	71	2544	156	56	57	6.7	7.7	8	71106892.7	1931	2544	81
7/14/2004 8:00	0	0	59	72	2433	156	57	57	6.7	7.7	8	71121477.6	1925	2433	76
7/14/2004 12:00	0	0	60	69	2445	156	57	57	6.7	7.7	8.1	71135944.6	1855	2445	81
7/14/2004 16:00	0	0	59	72	2341	158	57	58	6.7	7.8	8.1	71150397.4	1830	2341	81
7/14/2004 20:00	0	0	58	70	2394	158	57	57	6.7	7.8	8.1	71164871.7	1886	2394	76
7/15/2004 0:00	0	0	58	70	2544	156	58	57	6.7	7.8	8.1	71179339.7	2052	2544	76
7/15/2004 4:00	0	0	60	74	2445	157	57	57	6.7	7.7	8	71193825.1	2005	2445	82
7/15/2004 8:00	0	0	58	72	2341	157	57	58	6.7	7.7	8	71208298.6	1970	2341	81
7/15/2004 12:00	0	0	61	70	2447	157	57	57	6.7	7.8	8.1	71222747.5	1717	2447	81
7/15/2004 16:00	0	0	59	72	2341	156	57	57	6.6	7.8	8.1	71237198.4	1858	2341	75
7/15/2004 20:00	0	0	58	70	2553	156	57	57	6.6	7.8	8.1	71251658.7	1864	2553	77
7/16/2004 0:00	0	0	58	71	2744	156	57	57	6.7	7.7	8.1	71266110.9	1649	2744	76
7/16/2004 4:00	0	0	57	70	2541	155	57	57	6.7	7.7	8.1	71280574.4	1898	2541	81
7/16/2004 8:00	0	0	57	71	2495	156	57	56	6.7	7.7	8	71295020.6	1946	2495	76

7/16/2004 12:00	0	0	59	0	2553	156	57	57	6.7	7.8	8.1	71309371.4	2031	2553	81
7/16/2004 16:00	0	0	57	0	2394	157	58	57	6.7	7.8	8.1	71323765.3	1914	2394	76
7/16/2004 20:00	0	0	57	0	2553	157	57	57	6.7	7.8	8.1	71338265	1869	2553	76
7/17/2004 0:00	0	0	59	0	2447	156	51	57	6.7	7.7	8	71352743.7	2022	2447	82
7/17/2004 4:00	0	0	57	0	2396	156	57	57	6.7	7.7	8	71367196.1	1912	2396	79
7/17/2004 8:00	0	0	58	0	2445	157	57	57	6.7	7.7	8	71381628.5	1928	2445	77
7/17/2004 12:00	0	0	57	0	2445	157	57	57	6.7	7.8	8.1	71395974.8	1921	2445	75
7/17/2004 16:00	0	0	60	72	2505	157	58	57	6.7	7.8	8.1	71410392.6	1912	2505	86
7/17/2004 20:00	0	0	57	75	2507	157	57	57	6.7	7.8	8.1	71424858.6	1937	2507	75
7/18/2004 0:00	0	0	57	70	2445	158	57	58	6.7	7.8	8.1	71439301.7	2003	2445	82
7/18/2004 4:00	0	0	57	10	2502	158	57	58	6.7	7.8	8.1	71453746.2	1998	2502	81
7/18/2004 8:00	0	0	61	33	2502	158	57	58	6.7	7.8	8.1	71468213.2	1980	2502	77
7/18/2004 12:00	0	0	58	74	2341	158	57	58	6.7	7.9	8.1	71482634.6	1920	2341	81
7/18/2004 16:00	0	0	59	71	2748	158	57	58	6.7	7.8	8.1	71497081.1	2044	2748	78
7/18/2004 20:00	0	0	57	0	2553	157	57	57	6.7	7.8	8.1	71511560.3	1904	2553	82
7/19/2004 0:00	0	0	59	6	2553	157	56	57	6.7	7.8	8	71526225.8	1912	2553	81
7/19/2004 4:00	0	0	57	72	2551	157	56	57	6.7	7.8	8	71540757.3	1982	2551	77
7/19/2004 8:00	0	0	58	70	2341	157	52	58	6.7	7.7	8	71555218.3	1843	2341	76
7/19/2004 12:00	0	0	57	70	2445	157	57	58	6.7	7.8	8.1	71569652.2	1905	2445	82
7/19/2004 16:00	0	0	57	69	2396	157	57	58	6.8	7.8	8.1	71584073.2	1922	2396	82
7/19/2004 20:00	0	0	57	71	2507	157	58	58	6.8	7.8	8.1	71598494.8	1883	2507	82
7/20/2004 0:00	0	0	60	70	2544	157	57	57	6.7	7.8	8.1	71612918.7	1840	2544	82
7/20/2004 4:00	0	0	58	71	2553	157	57	57	6.7	7.8	8	71627364.1	1893	2553	76
7/20/2004 8:00	0	0	57	59	2341	157	57	57	6.7	7.7	8	71641823.7	1939	2341	76
7/20/2004 12:00	0	0	61	0	2396	157	57	58	6.7	7.8	8.1	71656193	1788	2396	75
7/20/2004 16:00	0	0	57	0	2486	158	57	58	6.8	7.8	8.1	71670531.4	1866	2486	80
7/20/2004 20:00	0	0	57	0	2558	158	58	58	6.8	7.8	8.1	71684975.5	1869	2558	81
7/21/2004 0:00	0	0	59	0	2447	157	57	58	6.7	7.8	8	71699407.5	1901	2447	82
7/21/2004 4:00	0	0	60	0	2601	157	57	57	6.7	7.7	8	71713802.3	1972	2601	86
7/21/2004 8:00	0	0	56	0	2553	157	57	57	6.7	7.8	8	71728148.5	1818	2553	76
7/21/2004 12:00	0	0	58	70	2507	157	57	58	6.7	7.8	8.1	71742518.7	1843	2507	75
7/21/2004 16:00	0	0	60	69	2599	158	57	58	6.8	7.8	8.1	71756922.8	1776	2599	81
7/21/2004 20:00	0	0	60	70	2254	157	57	58	6.8	7.9	8.2	71771335	1672	2254	81
7/22/2004 0:00	0	0	59	70	2507	157	57	58	6.7	7.8	8.1	71785757.2	1855	2507	81
7/22/2004 4:00	0	0	60	70	2456	157	58	58	6.7	7.8	8	71800161.3	1967	2456	76
7/22/2004 8:00	0	0	57	69	2601	158	58	58	6.7	7.8	8	71814586.4	1866	2601	76
7/22/2004 12:00	0	0	58	71	2498	158	58	58	6.8	7.9	8.1	71829004.1	1797	2498	78
7/22/2004 16:00	0	0	60	70	2447	158	58	59	6.8	7.9	8.2	71843452.6	1807	2447	79
7/22/2004 20:00	0	0	60	71	2254	158	60	59	6.8	7.9	8.1	71857868.9	1762	2254	76
7/23/2004 0:00	0	0	57	70	2445	158	57	59	6.7	7.9	8.1	71872283.4	2054	2445	81
7/23/2004 4:00	0	0	58	70	2505	158	57	58	6.7	7.8	8.1	71886699.7	1777	2505	85
7/23/2004 8:00	0	0	56	70	2544	158	57	58	6.7	7.8	8.1	71901109.8	1997	2544	81
7/23/2004 12:00	0	0	57	71	2555	158	51	58	6.7	7.9	8.1	71915516.3	1900	2555	75
7/23/2004 16:00	0	0	58	70	2553	158	53	58	6.7	7.8	8.1	71929931.9	1838	2553	81
7/23/2004 20:00	0	0	60	0	2254	158	51	58	6.7	7.9	8.1	71944401.9	2123	2254	0
7/24/2004 0:00	0	0	59	0	2500	158	56	58	6.7	7.8	8.1	71956926.9	2158	2500	0
7/24/2004 4:00	0	0	59	69	2295	157	50	58	6.7	7.8	8.1	71973471.9	1982	2295	0
7/24/2004 8:00	0	0	58	74	2544	156	56	57	6.7	7.8	8.1	71987917.9	2200	2544	0
7/24/2004 12:00	0	0	57	70	2447	156	45	57	6.7	7.8	8.1	72002352.6	2104	2447	0
7/24/2004 16:00	0	0	57	70	2396	156	48	57	6.7	7.9	8.1	72016787.6	2104	2396	0
7/24/2004 20:00	0	0	61	72	2341	156	57	58	6.7	7.9	8.1	72031188.4	1976	2341	1
7/25/2004 0:00	0	0	61	70	2500	156	57	56	6.7	7.8	8.1	72045618.7	2084	2500	1
7/25/2004 4:00	0	0	58	71	2394	156	45	58	6.7	7.9	8.1	72060043.1	2236	2394	0
7/25/2004 8:00	0	0	61	71	2406	155	57	56	6.7	7.8	8.1	72074438.4	2101	2406	0
7/25/2004 12:00	0	0	59	70	2583	156	57	56	6.7	7.9	8.1	72088869.7	2101	2583	1
7/25/2004 16:00	0	0	57	71	2394	156	57	57	6.7	7.9	8.1	72103277.3	2205	2394	1
7/25/2004 20:00	0	0	57	24	2339	155	50	57	6.7	7.9	8.1	72117679.9	2209	2339	1
7/26/2004 0:00	0	0	59	6	2295	156	51	56	6.7	7.8	8.1	72132332	2270	2295	0
7/26/2004 4:00	0	0	57	70	2498	155	57	56	6.7	7.8	8.1	72148756.2	2167	2498	1
7/26/2004 8:00	0	0	60	70	2394	155	57	58	6.7	7.8	8.1	72161156	1982	2394	94
7/26/2004 12:00	0	0	57	71	2601	156	57	57	6.7	7.8	8.1	72175524.9	1996	2601	97
7/26/2004 16:00	0	0	59	70	2445	156	57	57	6.8	7.9	8.2	72189891.5	1815	2445	88
7/26/2004 20:00	0	0	59	73	2341	155	57	57	6.8	7.9	8.2	72204231.7	1876	2341	85
7/27/2004 0:00	0	0	61	71	2445	156	57	57	6.8	7.9	8.1	72218595.9	1907	2445	86
7/27/2004 4:00	0	0	59	71	2394	156	57	58	6.7	7.8	8.1	72232973.9	2057	2394	97
7/27/2004 8:00	0	0	59	70	2505	156	57	57	6.7	7.8	8.1	72247333	1949	2505	86
7/27/2004 12:00	0	0	60	70	2544	157	57	58	6.7	7.9	8.1	72261701.6	1926	2544	97
7/27/2004 16:00	0	0	57	72	2601	157	57	58	6.7	7.9	8.1	72276028.4	1885	2601	96
7/27/2004 20:00	0	0	57	71	2396	157	57	58	6.7	7.8	8.1	72290404.8	2069	2396	89
7/28/2004 0:00	0	0	57	0	2551	157	57	57	6.7	7.7	8	72304899.3	1910	2551	86
7/28/2004 4:00	0	0	57	72	2341	157	57	58	6.7	7.8	8	72319493.6	1841	2341	75
7/28/2004 8:00	0	0	58	74	2396	156	57	57	6.7	7.8	8.1	72333906.3	1894	2396	86
7/28/2004 12:00	0	0	57	71	2394	157	57	58	6.7	7.8	8.1	72348283.4	1991	2394	95
7/28/2004 16:00	0	0	58	70	2341	158	57	57	6.7	7.8	8.1	72362643.3	1807	2341	97
7/28/2004 20:00	0	0	59	71	2544	158	57	58	6.8	7.9	8.1	72377000	1992	2544	97
7/29/2004 0:00	0	0	58	0	2507	158	57	58	6.7	7.8	8	72391422	1969	2507	97
7/29/2004 4:00	0	0	59	73	2447	157	57	57	6.7	7.7	8.1	72406001	1841	2447	99
7/29/2004 8:00	0	0	59	71	2544	157	57	57	6.7	7.8	8.1	72420398.4	1909	2544	101
7/29/2004 12:00	0	0	59	70	2555	157	57	57	6.7	7.8	8.1	72434763	1912	2555	92
7/29/2004 16:00	0	0	57	71	2396	157	58	58	6.8	7.8	8.1	72449149.7	1956	2396	97
7/29/2004 20:00	0	0	59	71	2447	157	57	57	6.8	7.8	8.1	72463519.6	1879	2447	99
7/30/2004 0:00	0	0	58	0	2396	157	56	57	6.7	7.8	8	72477953.3	2215	2396	97
7/30/2004 4:00	0	0	59	69	2447	156	57	57	6.7	7.7	8	72492519.6	1903	2447	97
7/30/2004 8:00	0	0	60	69	2553	157	57	58	6.7	7.8	8.1	72506928.5	1907	2553	97
7/30/2004 12:00	0	0	57	70	2801	159	57	58	6.8	7.9	8.2	72521310.3	1752	2801	97
7/30/2004 16:00	0	0	57	73	2555	159	57	58	6.8	7.9	8.2	72535684.9	1826	2555	97
7/30/2004 20:00	0	0	59	74	2302	158	57	59	6.8	7.9	8.1	72550066	1917	2302	91
7/31/2004 0:00	0	0	61	0	2445	158	57	58	6.7	7.9	8.1	72564565.3	1834	2445	101
7/31/2004 4:00	0	0	59	71	2447	158	57	58	6.7	7.8	8.1	72576152.6	1986	2447	97
7/31/2004 8:00	0	0	57	72	2341	158	57	58	6.7	7.8	8.1	72590521.4	2005	2341	97
7/31/2004 12:00	0	0	58	71	2445	159	57	59	6.7	7.9	8.1	72604890.1	1805	2445	95
7/31/2004 16:00	0	0	57	70	2302	159	57	58	6.8	7.9	8.2	72619264	1817	2302	96
7/31/2004 20:00	0	0	59	70	2394	159	57	59	6.8	7.9	8.1	72633625	1894	2394	97

Appendix D

Sampling Trip Reports

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
CERCLIS ID Number: NYD047650197
Sampling Dates: July 13, 2004
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	USEPA Region II Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837

Sample Dispatch Data (Table 2):

On July 13, 2004, four (4) groundwater samples, including extra volume for Matrix Spike / Matrix Spike Duplicate (MS/MSD) analysis, 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 Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135658512	1	4 Aqueous Samples including 1 MS/MSD, 1 duplicate sample, and 1 Trip Blank for TCL-VOAs.	7/13/04 @ 17:00 TO: USEPA

Sampling Personnel (Table 3):

Name	Organization	Site Duties
Tom Williams	Earth Tech, Inc.	Task Manager
John Huisman	Earth Tech, Inc.	Health & Safety/Sampler

Sample Numbers and Collection Points (Table 4):

Laboratory	Analyses	Sample Type	Sample #	Sample Collection Point(SCP)
USEPA	TCL-VOAs	Aqueous Groundwater	B1FJ2	SC-01
			B1FJ3	SC-04 (MS/MSD)
			B1FJ4	SC-68 (Dupl SP-01)
			B1FJ5	SC-TB (Trip Blank)

Additional Comments:

All groundwater samples were collected after a five gallon purge from the sample ports located within the treatment system. Volumes were collected from the influent (SC-01) and effluent (SC-04) of the treatment system for the following analysis: Target Compound List (TCL) Volatile Organic Compounds.

Extra volumes for MS/MSD analysis were collected from SC-04, the effluent sample location. Sample collection point SC-68 is a duplicate sample of influent sample SC-01.

Earth Tech personnel also collected real time water quality parameters from the raw water (influent) and treated water (effluent) using a Horiba U-22 water quality meter.

APPENDIX D-1

CHAIN OF CUSTODY FORMS

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

Case No:
DAS No:
SDG No:

L

Date Shipped:	7/13/2004
Carrier Name:	FedEx
Airbill:	842135658512
Shipped to:	USEPA REGION II Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837 (732) 906-6886

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	John Huisman 7/13/04 17:00	FedEx 7/13/04 17:00
2		
3		
4		

Sampler Signature: John Huisman

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

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
B1FJ2	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (3)	SC-01	S: 7/13/2004 14:00		
B1FJ3	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (9)	SC-04	S: 7/13/2004 13:30		
B1FJ4	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (3)	SC-68	S: 7/13/2004 14:00		
B1FJ5	Field QC	L/G	VOA (21)	(HCL) (3)	SC-TB	S: 7/13/2004		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
	B1FJ3				
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ___	Shipment Iced? ___
VOA = CLP TCL Volatiles					

TR Number: 2-462971652-071304-0001

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

LABORATORY COPY

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

Case No: R
DAS No:

Region:	2	Date Shipped:	7/13/2004	Chain of Custody Record	Sampler Signature: John Huisman
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	842135658512	1 John Huisman 7/13/04/1700	Fedex 7/13/04/17:00
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837 (732) 906-6886	2	
Spill ID:	02LH			3	
Site Name/State:	Stanton Cleaners Site/NY			4	
Project Leader:	Tom Williams				
Action:	Operations and Maintenance				
Sampling Co:	Earth Tech				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
B1FJ2	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (3)	SC-01	S: 7/13/2004 14:00		–
B1FJ3	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (9)	SC-04	S: 7/13/2004 13:30		–
B1FJ4	Ground Water/ John Huisman	L/G	VOA (21)	(HCL) (3)	SC-68	S: 7/13/2004 14:00		Field Duplicate
B1FJ5	Field QC	L/G	VOA (21)	(HCL) (3)	SC-TB	S: 7/13/2004		Trip Blank

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	B1FJ3		
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
VOA = CLP TCL Volatiles			

TR Number: 2-462971652-071304-0001

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

APPENDIX D-2

FEDEX AIRBILLS

FedEx Express *USA Airbill*

FedEx Tracking Number: 842135658512

1 From *Please print and press hard.*

Date: 7/13/04 Sender's FedEx Account Number: 2374-4259-8

Sender's Name: John Huisman Phone: (516) 466-4960

Company: Earth Tech, Inc.

Address: 110 Cutter Mill Road

Dept/Floor/Suite/Room:

City: Great Neck State: NY ZIP: 11021

2 Your Internal Billing Reference First 24 characters will appear on invoice.: 5442.001

3 To

Recipient's Name: Sample Receiving Phone: (732) 906-6886

Company: USEPA Region II

Address: Building 209 MS 230

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address: 2890 Woodbridge Avenue

Dept/Floor/Suite/Room:

City: 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 our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx® 800.463.3339.

Sender's Copy

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [X] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] 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 $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling Includes FedEx address in Section 3.

- [ ] SATURDAY Delivery Available ONLY for FedEx Priority Overnight and FedEx 2Day 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? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	FedEx Use Only
1		$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

446

Rev. Date 10/01 • Part #157611 • ©1994–2001 FedEx • PRINTED IN U.S.A. WCSL 03

RETAIN THIS COPY FOR YOUR RECORDS.

APPENDIX D-3

WATER QUALITY DATA

STANTON CLEANERS SITE LTRA

Groundwater Pump and Treatment System
Water Quality Parameters Log

Date: 7/13/04
Project # 70536

	pH	COND.	TURB.	DO	TEMP.	SALINITY
Combined Influent	6.49	0.534	0.5	5.5	65.7	0
Discharge	7.8	0.555	0.1	8.8	65	0

Total Gallons pumped: 71,069,006 gallons
Flow rate: 65 gpm

Equipment Calibrated by: John Huisman
Water samples collected by: John Huisman
Water monitoring performed by: John Huisman

Comments:
SC-01 : Influent Sample Collected
SC-04 : Effluent Sample Collected & (MS/MSD)
SC-68 : Duplicate Sample of SC-01

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**
Influent	SC-01	B0001	10/27/2003	MTBE	2	J
				cis -1,2-Dichloroethene	2	J
				Trichloroethene (TCE)	3	J
				Toluene	3	J
				Tetrachloroethene	350 (D)	
Effluent	SC-04	B0002	10/27/2003	None		
Trip Blank	SC-TB	B0003	10/27/2003	Acetone	61	J
				Methylene chloride	2	J
Influent	SC-01	B0177	11/12/2003	Tetrachloroethene (PCE)	240	
				Chlorodifluoromethane	8.6	NJ
				1,2-Dichloroethene	3.3	NJ
Effluent	SC-04	B0178	11/12/2003	Chlorodifluoromethane	22	NJ
Influent Dup	SC-60	B0179	11/12/2003	Tetrachloroethene	250	
				Chlorodifluoromethane	29	NJ
				1,2-Dichloroethene	3.4	NJ
Trip Blank	SC-TB	B0180	11/12/2003	Tetrachloroethene	9.4	
				Chlorodifluoromethane	4.3	NJ
Influent	SC-01	B17J3	12/10/2003	Tetrachloroethene	290 (D)	
				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)	
				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	
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	
Trip Blank	SC-TB	B1003	1/12/2004	Methylene chloride	0.6	K
				MTBE	3.7	
				Tetrachloroethene	7.9	
				m&p-Xylene	0.7	
Influent	SC-01	B17Z0	2/12/2004	*cis* -1,2-Dichloroethene	1.7	
				Trichloroethene	3.0	
				Tetrachloroethene	610 (D)	
				Unknown TIC	0.53	J
Effluent	SC-04	B17Z1	2/12/2004	Acetone	3.8	J
Influent Dup	SC-63	B17Z2	2/12/2004	Acetone	25	J
				cis -1,2-Dichloroethene	1.7	
				Trichloroethene	2.8	
				Tetrachloroethene	440 (D)	
Trip Blank	SC-TB	B17Z3	2/12/2004	Methylene chloride	0.16	J
				MTBE	4.7	
				Chloroform	0.26	J
				Tetrachloroethene	7.1	
				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**
Influent	SC-01	B17Z6	3/10/2004	MTBE	2.7	
				cis-1,2-Dichloroethene	1.2	
				Trichloroethene	2.3	
				Tetrachloroethene	260	
Effluent	SC-04	B17Z7	3/10/2004	Tetrachloroethene	0.70	
Influent Dup	SC-64	B17Z8	3/10/2004	MTBE	2.8	
				cis-1,2-Dichloroethene	1.2	
				Trichloroethene	2.3	
				Tetrachloroethene	260	
Trip Blank	SC-TB	B17Z9	3/10/2004	Acetone	1.8	
				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)	
Effluent	SC-04	B1BS3	4/14/2004	Tetrachloroethene	1.9	
Influent Dup	SC-65	B1BS4	4/14/2004	Acetone	1.2	J
				MTBE	1.5	
				cis-1,2-Dichloroethene	0.67	J
				Trichloroethene	1.1	
				Tetrachloroethene	260 (D)	
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	
Effluent	SC-04	B1BS7	5/20/2004	Tetrachloroethene		
				Acetone	1.2	
Influent Dup	SC-66	B1BS8	5/20/2004	Acetone		
				MTBE	2.1	
				cis-1,2-Dichloroethene	0.9	
				Trichloroethene	1.6	
				Tetrachloroethene	200	
Trip Blank	SC-TB	B1BS9	5/20/2004	Acetone	1	
				Chloroform		
				Bromodichloromethane		
Influent	SC-01	AF02173	6/15/2004	MTBE	2.7	
				cis-1,2-Dichloroethene	1.3	
				Trichloroethene	2.4	
				Tetrachloroethene	320	
Effluent	SC-04	AF02175	6/15/2004	Tetrachloroethene	2.1	
				Acetone		
Influent Dup	SC-67	AF02174	6/15/2004	Acetone		
				MTBE	2.3	
				cis-1,2-Dichloroethene	1.2	
				Trichloroethene	2.2	
				Tetrachloroethene	330	

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 qualifers 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: 7/ 08 / 2004
Project # 70536

	MultiRAE Plus PGM-50					VelociCalc Plus				
	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
Influent SVE	4.9	0	20.90%	0%	0	106.0	NA	64.00%	-6.80	140
Post Air Stripper	0.0	0	21.00%	0%	0	76.3	NA	64.50%	-6.90	2000
Discharchge	0.6	0	20.90%	0%	0	81.9	NA	65.00%	-6.90	2300
Background	0.0	0	20.90%	0%	0	78.8	NA	66.77%	-9.80	NA

Total gallons pumped: 70,619,308 gallons
Flow Rate: 71 gpm

Equipment calibrated by: J. Huisman
Air sample collected by: J. Huisman
Air sample readings performed by: J. Huisman

Comments:
SVE Belt Replaced today.

VOC: Volatile Organic Compounds
CO: Carbon Monoxide
LEL: Lower Explosive Limit
ppm: parts per million
temperature: measured in degrees Farenheit
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)
%RH: relative humidity
Dew Pt.: dew point in degrees Farenheit

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

Date: 7/ 22 / 2004
Project # 70536

	MultiRAE Plus PGM-50					VelociCalc Plus				
	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
Influent SVE	4.8	0	20.90%	0%	0	108.1	NA	41.33%	-8.11	139
Post Air Stripper	0.0	0	20.90%	0%	0	77.2	NA	41.00%	-8.31	2001
Discharchge	0.7	0	20.90%	0%	0	81.0	NA	41.50%	-8.00	2300
Background	0.0	0	20.90%	0%	0	77.9	NA	45.67%	-11.34	NA

Total gallons pumped: 71,829,110 gallons
Flow Rate: 71 gpm

Equipment calibrated by: J. Huisman
Air sample collected by: J. Huisman
Air sample readings performed by: J. Huisman **Comments:**

VOC: Volatile Organic Compounds
CO: Carbon Monoxide
LEL: Lower Explosive Limit
ppm: parts per million
temperature: measured in degrees Farenheit
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)
%RH: relative humidity
Dew Pt.: dew point in degrees Farenheit

Appendix G

Quarterly Groundwater Sampling Analytical Data

Not applicable for this month.

Appendix H

Historical Groundwater Level Monitoring Results (Ongoing)

EARTH TECH

A Tyco Infrastructure Services Company

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners	JOB NUMBER:	70536
LOCATION:	Great Neck, NY	DATE:	7/21/2004 - 7/22/2004
CLIENT:	USACE / USEPA	MEASURED BY:	John Huisman
SURVEY DATUM:	ft msl		
MEASURING DEVICE:	Solinst Water Level Indicator S/N# 34407		

WELL NUMBER	MEASURING POINT		DEPTH TO WATER (FT)	ELEVATION OF WATER (FT)	COMMENTS
	Description	Elevation (FT)			
EPA-MW-11D	ft BTOC	74.63	59.75	14.88	missing 1 bolt
EPA-MW-21	ft BTOC	84.13	66.99	17.14	missing 1 bolt
EPA-MW-22	ft BTOC	82.20	64.50	17.70	
EPA-MW-23	ft BTOC	82.83	66.10	16.73	
EPA-MW-27	ft BTOC	69.32	52.98	16.34	no bolts
ST-MW-02	ft BTOC	82.03	65.00	17.03	
ST-MW-06	ft BTOC	69.83	45.66	24.17	
ST-MW-09	ft BTOC	78.13	61.79	16.34	
ST-MW-11	ft BTOC	75.25	60.39	14.86	no bolts
ST-MW-12	ft BTOC	87.20	72.20	15.00	missing 1 bolt
ST-MW-14	ft BTOC	69.73	58.34	11.39	no bolts
ST-MW-16	ft BTOC	75.78	55.01	20.77	no bolts
ST-MW-17	ft BTOC	86.53	71.46	15.07	no bolts
ST-MW-19	ft BTOC	82.50	64.77	17.73	no bolts
ST-MW-20	ft BTOC	84.53	73.25	11.28	no bolts

Notes:

WAGNN Well #9 was pumping at 1,000 GPM during water level measurements on 7/21/04 & 7/22/04

Treatment System:
Total Gallons Pumped: 71,829,004
Pumping Rate: 71 GPM

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		7/21/03 - 7/22/03	
		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
EPA-MW-21	84.13	67.00	17.13	66.99	17.14
EPA-MW-22	82.20	64.78	17.42	64.50	17.70
EPA-MW-23	82.83	66.21	16.62	66.10	16.73
EPA-MW-27	69.32	53.05	16.27	52.98	16.34
ST-MW-02	82.03	65.11	16.92	65.00	17.03
ST-MW-06	69.83	45.99	23.84	45.66	24.17
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
ST-MW-12	87.20	72.29	14.91	72.20	15.00
ST-MW-14	69.73	58.55	11.18	58.34	11.39
ST-MW-16	75.78	55.09	20.69	55.01	20.77
ST-MW-17	86.53	71.52	15.01	71.46	15.07
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

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

Appendix I

Indoor Air Quality Analytical Data

Not applicable for this month.

Appendix J

Action List Dated July 2004

EARTH TECH

A Tyco Infrastructure Services Company

July 2004 2004 ~~ACTION LIST~~ SUMMARY

PROJECT:	Stanton Cleaners	JOB NUMBER:	70536
LOCATION:	Great Neck, NY	DATE:	July-04
CLIENT:	USACE / USEPA		

COMPLETED ITEMS	DATE PERFORMED
Item #1 - Replaced SVE Blower Belt.	7/8/2004
Item #2 - Replaced SVE Blower Belt.	7/26/2004

OUTSTANDING ITEMS	/	RECOMMENDED SOLUTION
Item A - Monitoring wells need repair / New bolts, well caps, and locks need to be ordered to repair existing monitoring wells.		