Monthly Operations and Monitoring Report
January 2005

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

February 1, 2005

ET Project No. 70536.02.01.01

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Author: *John Huisman*

Title: *Environmental Scientist*

Date: February 1, 2005

Reviewer: _____

Title: _____

Date: _____

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1.0 INTRODUCTION

This Monthly Operations and Monitoring Report, January 2005 (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 January 1 and January 31, 2005.

2.0 SUMMARY OF ACTIVITIES DURING JANUARY 2005

The following list summarizes activities performed and milestone dates under this contract during the reporting period, January 2005:

- January 3 – Monthly Water Levels.
- January 6 – Weekly O&M Inspection.
- January 11 – Install 3 Sub-slab extraction system points.
- January 12 – Weekly O&M Inspection.
- January 12 – Bi-weekly system air monitoring
- January 17 – Weekly O&M Inspection.
- January 17 – Bi-weekly system air monitoring
- January17 – Weekly O&M Inspection.
- January 18 – Treatment Building Indoor Air Sampling.
- January 20 – Collect Monthly System Samples.
- January 20 – Partially bypass aqueous phase carbon vessel per OSC instructions.
- January 24 – Plow snow from parking lot following blizzard
- January 26 – Weekly O&M Inspection.

Details of system shutdowns and alarms during the month of January 2005 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 2,277,043.3 gallons during the month of January 2005. The system was operational (recovery well pumps running) for approximately 724 of the 744 hours during the month, for an average operating flow of 52.4 gallons per minute (gpm). The system has treated a total of 86,292,331.2 gallons since the plant startup in November 2001.

The groundwater treatment system shutdown on January 19, 2005 due to an air stripper high level alarm. It was determined that water was discharging too slowly from the system due to the aqueous phase carbon vessels being partially clogged with sand which resulted from the short operation of extraction well EPA-EXT-04. The aqueous phase carbon vessels were partially by passed on January 20, 2005 per the EPA OSC instructions and the system was restarted.

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. A third well EPA-EXT-04 was put online November 4, 2004. However, due to issues with sediment entering the well this extraction well was taken off-line November 9, 2004. The SVE portion of EPA-EXT-04 remains operational. A new extraction well is scheduled to be installed in February 2005.

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 January 6, 12, 17, and 26, 2005 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 January 20, 2005. 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 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 February 3, 2005.

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).

Bi-weekly air monitoring activities were conducted on January 12 and 17, 2005. 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 February 3, 2005.

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 August 2 through 6, 2004. The next semi-annual groundwater sampling event is scheduled for February 7, 2005.

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 January 3, 2005. The location and number of monitoring wells was determined by the USEPA based on the site Capture Zone Analysis Plan. Groundwater level measurements for January 2005 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.

A supplemental indoor air quality sampling event was conducted on January 18, 2005 by Earth Tech personnel. This sampling event was conducted to address air quality issues within the groundwater treatment building. A copy of the full sampling trip report containing the chain of custody forms and FedEx airbill is included in Appendix D. Analytical results from this quarterly sampling event will be forwarded to ECC under separate cover from the laboratory.

The next quarterly indoor air quality sampling event will be performed by Earth Tech personnel in March 2005.

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;
- Install new extraction well to replace EPA-EXT-04.

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 - January 2005

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.

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

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

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 - January 2005

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)
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
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
						Total	233.8

Notes:

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

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

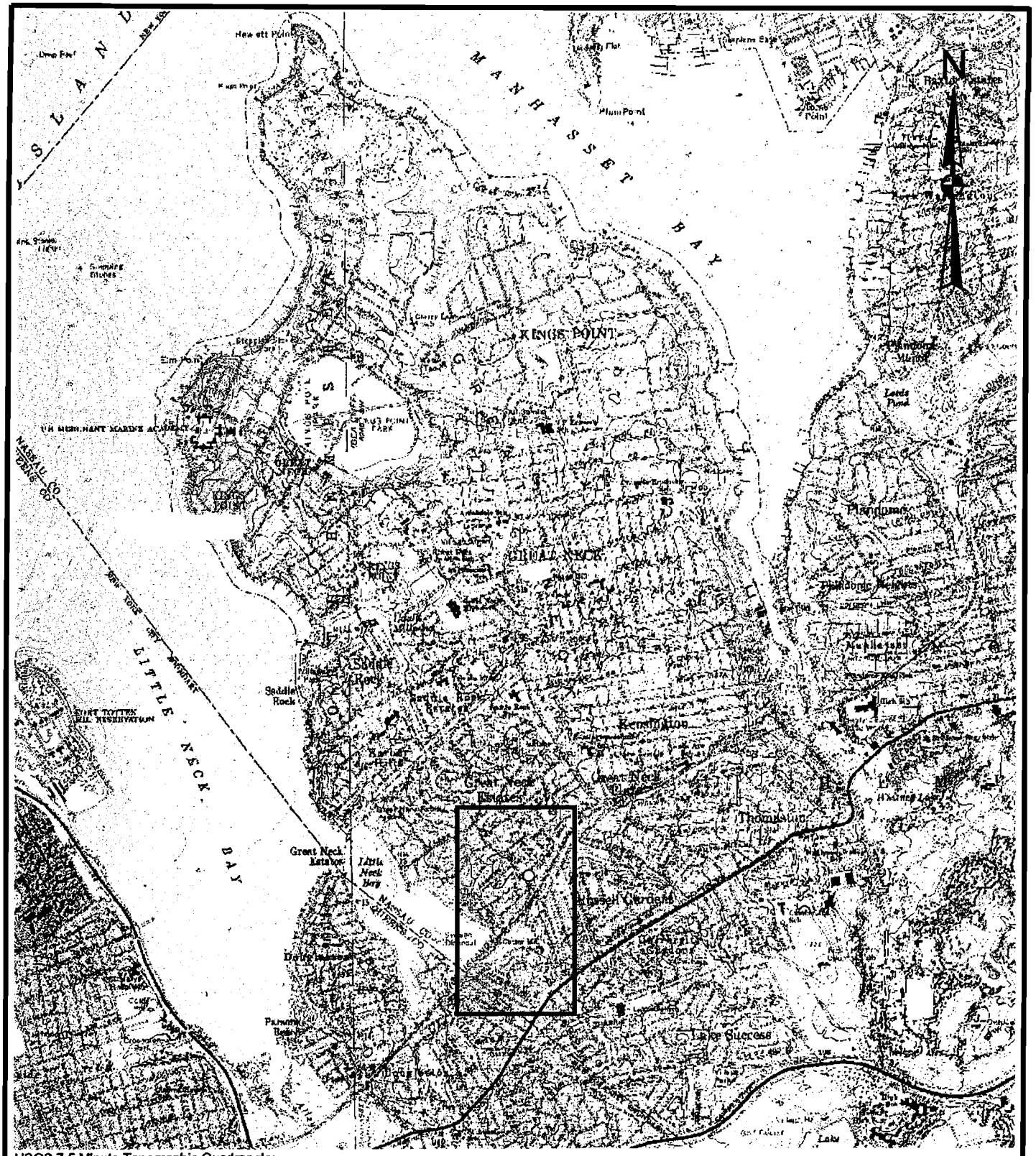
$$C_{air\ (mg/m3)} = \frac{Conc\ (ppmv)}{1E+06} \times \frac{1\ mole\ air}{24.1\ L} \times \frac{1000\ L}{m3} \times \frac{1000\ mg}{g} \times MW_x$$

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

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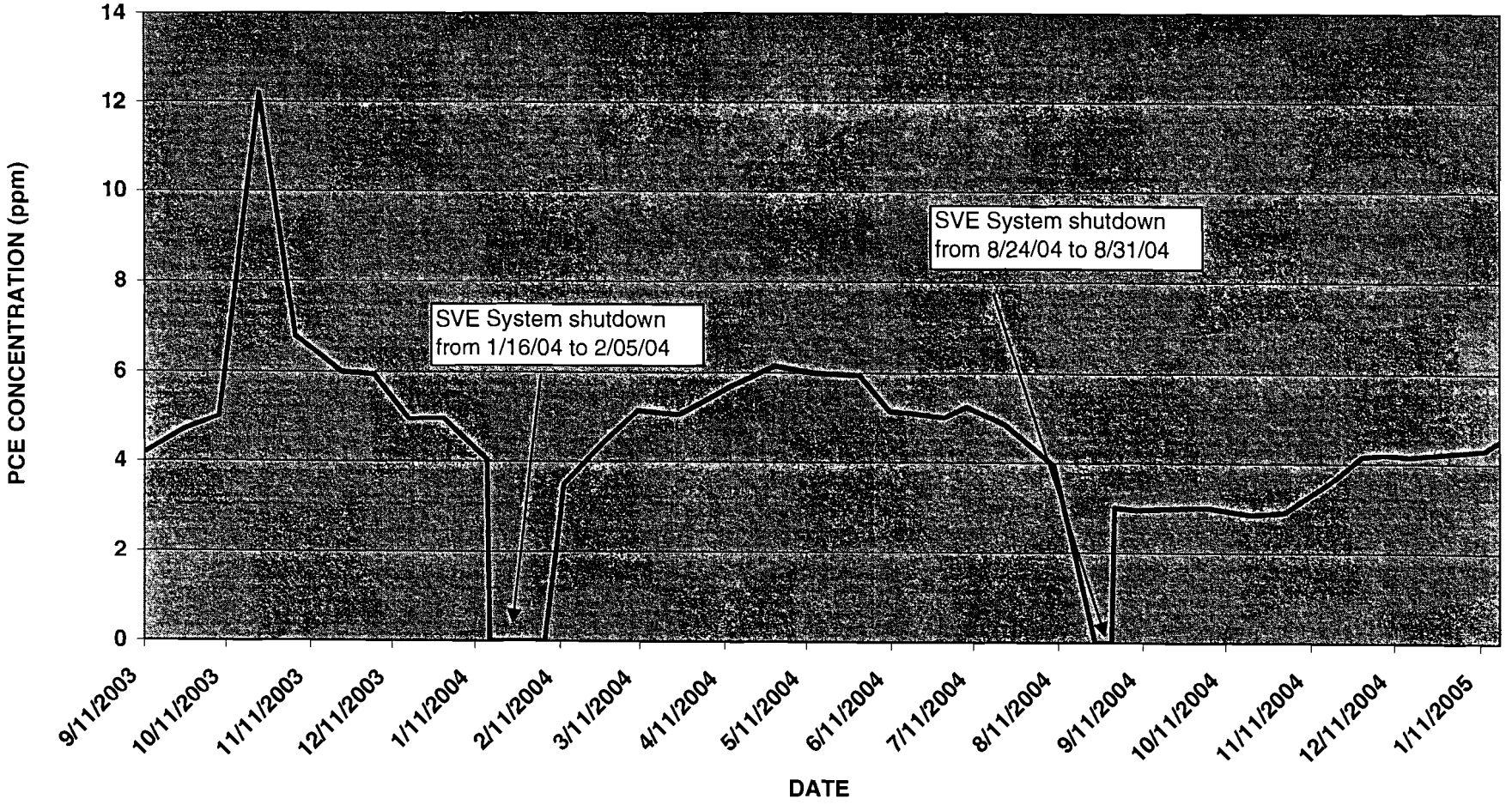
Figure 1
Site Location Map
Stanton Cleaners Area
Groundwater Contamination Site

Stanton Cleaners Area
Groundwater Contamination Site
Great Neck, Nassau County, New York

Figure 2
STANTON CLEANERS AREA GOUNDWATER CONTAMINATION SITE
AVERAGE PCE CONCENTRATIONS (ppm)
250 CFM FINAL SVE SYSTEM
September 2003 - January 2005



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: 1/3/05 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather		**Cloudy**					
Temp.		**42°F**					
Wind		**Low**					
Humidity		**High**					

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

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

Contract Materials and Equipment on site: **Ford F-250 & general hand tools. Solinst water level meter.**

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

Perform monthly water levels

Quality Control Activities (including field calibrations): **Decon water level meter with DI and liquinox solution**

After each use.

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 (ETRA) – 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: 1/3/05	Earth Tech Project No.: 70536

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&M Inspection.

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: 1/6/05 | Earth Tech Project No: 70536

Day	S	M	T	W	T	F	S
Weather					**Cloudy**		
Temp.					**40°F**		
Wind					**Low**		
Humidity					**High**		

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

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

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

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

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 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: 1/6/05 | Earth Tech Project No.: 70536

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:

Begin Installing Sub-Slab systems

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: 1/11/05 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather			**rain**				
Temp.			**35°F**				
Wind			**Low**				
Humidity			**High**				

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

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

Contract Materials and Equipment on site: **F-250 & general hand tools.**

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

Weekly O&M Inspection – Complete installation of sub-slab system.
Bi-weekly air monitoring.

Quality Control Activities (including field calibrations): **Calibrate Multi-Rae PID with 100 ppm Isobutylene gas.**

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 (ETRA) – 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: 1/11/05	Earth Tech Project No: 70536

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:

Indoor air samples were to be collected on this day, but it was determined that it would be best to postpone

The sampling because the use of PVC glue while installing the sub-slab system lines would show up in the Analytical results.

Tomorrow's Expectations:

Weekly O&M Inspection

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: 1/12/05 | Earth Tech Project No: 70536

Day	S	M	T	W	T	F	S
Weather			**rain**				
Temp.			**35°F**				
Wind			**Low**				
Humidity			**High**				

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

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

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

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

Install sub-slab systems on dry cleaners building and garge area and hook up lines to sve system

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 (ITRA) – 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: 1/12/05	Earth Tech Project No.: 70536

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&M Inspection

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 (ETRA) – 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: 01/17/05

Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather		**Cloudy**					
Temp.		**20°F**					
Wind		**Low**					
Humidity		**High**					

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

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

Contract Materials and Equipment on site: **F-250, Van, general hand tools, and Summa Canisters. Multi-RAE Multi Gas Monitor, TSI VelociCalc Meter , Gil Air 5 - Gillian Tri-Mode Air Sampler Isobutylene and 4 Gas Calibration Gas.**

Work Performed (include sampling; list by NAS number if applicable):
Perfrom Bi-weekly air monitoring of the treatment system.
Set up summa canister for 24 composite sample in 2nd floor office breathing zone of treatment building.
Weekly O&M Inspection.

Quality Control Activities (including field calibrations): **Calibrate Multi-Rae PID with 100 ppm Isobutylene gas.**

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 (GTRA) – 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: 01/17/05	Earth Tech Project No.: 70536
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:	
Collect grab air sample from the combined influent of the SVE system.	
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: 1/18/2005 | Earth Tech Project No.: 70536

Day	S	M	T	W	T	F	S
Weather			**Cloudy**				
Temp.			**35°F**				
Wind			**Mild**				
Humidity			**High**				

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

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

Contract Materials and Equipment on site: **F-150 , Horiba U-22Water Quality Meter, Sample bottles, and cooler.**

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

Perform Monthly System Influent Effluent Sampling.

Collect Grab air sample from combined influent line on SVE system.

Retrieve 24 hour summa canister from the 2nd floor office of the treatment building.

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-74. 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: 1/18/2005	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 DESA Lab in Edison, NJ.
Fedex airbill number for shipped samples: 850424593819
Case number: N/A
Traffic Report Number: 2-183255802-012005-0001-0001
Copies of chains-of-custody faxed to Dave Miller, Jennifer Ferranda, Robert Toth, and Adly Michael.
Summa Canister samples were shipped to Data Chem Laboratories in Salt Lake City, UT for analysis.

Based on instructions from OSC the aqueous phase carbon vessels are now partially bypassed because They have become clogged with sand from the temporary pumping of damaged extraction well EPA-EXT-4. The aqueous phase carbon vessels need to be changed out.
The treatment system was not shut down for 24 hour period in preparation for additional air sampling Because of fears that the extreme low temperatures would cause the water line to freeze and burst.
Additional air sampling will need to be conducted at a later date.

Tomorrow's Expectations:

Weekly O&M Inspection next week.

By: John Huisman 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: 1/25/05 | Earth Tech Project No: 70536

Day	S	M	T	W	T	F	S
Weather			**Cloudy**				
Temp.			**30**				
Wind			**Low**				
Humidity			**High**				

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

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

Contract Materials and Equipment on site: **F-20, van & general hand tools, and wheeler**

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

Plow snow from facility parking lot.

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: 1/25/05	Earth Tech Project No.: 70536

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:

No personnel are located on site.

Tomorrow's Expectations:

N/A

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: 1/26/05 | Earth Tech Project No: 70536

Day	S	M	T	W	T	F	S
Weather				**Cloudy**			
Temp.				**30**			
Wind				**Low**			
Humidity				**High**			

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

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

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

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

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 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: 1/26/05	Earth Tech Project No.: 70536

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:

No personnel are located on site.

Tomorrow's Expectations:

N/A

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)

Appendix B

Groundwater Treatment System Operation & Maintenance Checklists

1/6/05

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] _____48_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____30_____ %
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 _____6.5_____ pH
8. Recovery Well conductivity _____.55_____ micromhos
9. Air Stripper pH _____7.9_____ pH
10. Air Stripper temperature _____151_____ deg.
11. Air Stripper air flow _____2491_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2615_____ CFM
14. Discharge conductivity _____.54_____ 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 _____54_____ GPM

17. Discharge total gallons _____84,452,528_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____64_____ CFM

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

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

2. Recovery Well IW-01 total flow _____NA_____ Gal

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

5. Recovery Well pH _____6.70_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.90_____ pH

8. Air Stripper temperature _____15.1_____ deg.

9. Air Stripper Pump water flow _____64_____ GPM

10. Air Stripper Pump pressure _____35_____ PSI

11. Discharge conductivity _____.55_____ micromhos

12. Discharge pH _____8.00

13. Discharge total gallons _____NA_____ Gal

14. SVE inlet vacuum (digital readout) _____2.4_____ "Hg

15. SVE inlet vacuum _____3_____ "Hg

16. SVE post knockout vacuum _____-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.

Notes:

1/12/05

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] _____49_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____30_____ %
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 _____6.4_____ pH
8. Recovery Well conductivity _____.54_____ micromhos
9. Air Stripper pH _____7.8_____ pH
10. Air Stripper temperature _____151_____ deg.
11. Air Stripper air flow _____2490_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2610_____ CFM
14. Discharge conductivity _____.54_____ 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 _____54_____ GPM

17. Discharge total gallons _____84,910,078_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____64_____ CFM

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

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

2. Recovery Well IW-01 total flow _____NA_____ Gal

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

5. Recovery Well pH _____6.70_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.90_____ pH

8. Air Stripper temperature _____15.1_____ deg.

9. Air Stripper Pump water flow _____65_____ GPM

10. Air Stripper Pump pressure _____35_____ PSI

11. Discharge conductivity _____.55_____ micromhos

12. Discharge pH _____8.00

13. Discharge total gallons _____NA_____ Gal

14. SVE inlet vacuum (digital readout) _____2.4_____ "Hg

15. SVE inlet vacuum _____3_____ "Hg

16. SVE post knockout vacuum _____-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:

1/17/05

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] _____49_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____30_____ %
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 _____6.5_____ pH
8. Recovery Well conductivity _____.55_____ micromhos
9. Air Stripper pH _____8.0_____ pH
10. Air Stripper temperature _____151_____ deg.
11. Air Stripper air flow _____2491_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2615_____ CFM
14. Discharge conductivity _____.54_____ 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 _____55_____ GPM

17. Discharge total gallons _____85,201,328_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____64_____ CFM

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

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

2. Recovery Well IW-01 total flow _____NA_____ Gal

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

5. Recovery Well pH _____6.70_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.90_____ pH

8. Air Stripper temperature _____15.1_____ deg.

9. Air Stripper Pump water flow _____64_____ GPM

10. Air Stripper Pump pressure _____35_____ PSI

11. Discharge conductivity _____.55_____ micromhos

12. Discharge pH _____8.00

13. Discharge total gallons _____NA_____ Gal

14. SVE inlet vacuum (digital readout) _____2.4_____ "Hg

15. SVE inlet vacuum _____3_____ "Hg

16. SVE post knockout vacuum _____-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.

Notes:

1/26/05

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] _____50_____ GPM
2. Recovery Well EPA-EXT-02 valve open _____30_____ %
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 _____.56_____ micromhos
9. Air Stripper pH _____7.8_____ pH
10. Air Stripper temperature _____151_____ deg.
11. Air Stripper air flow _____2490_____ CFM
12. Pre-vapor carbon pressure _____0_____ "wc
13. Post carbon air flow _____2612_____ CFM
14. Discharge conductivity _____.55_____ 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 _____55_____ GPM

17. Discharge total gallons _____85,890,412_____ Gal

18. SVE inlet vacuum _____4_____ "Hg

19. SVE air flow _____64_____ CFM

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

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

2. Recovery Well IW-01 total flow _____NA_____ Gal

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

5. Recovery Well pH _____6.70_____ pH

6. Recovery Well conductivity _____0.59_____ micromhos

7. Air Stripper pH _____7.90_____ pH

8. Air Stripper temperature _____15.1_____ deg.

9. Air Stripper Pump water flow _____64_____ GPM

10. Air Stripper Pump pressure _____35_____ PSI

11. Discharge conductivity _____.55_____ micromhos

12. Discharge pH _____8.00

13. Discharge total gallons _____NA_____ Gal

14. SVE inlet vacuum (digital readout) _____2.4_____ "Hg

15. SVE inlet vacuum _____4_____ "Hg

16. SVE post knockout vacuum _____-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:

Appendix C

Groundwater Treatment System Downloaded Operational Data

Stanton Cleaners Groundwater Contamination Site - January 2005 - 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				
1/1/2005 0:00	0	0	52	5	2599	152	57	55	6.8	7.9	8.1	84028314.8	2391	2599	20
1/1/2005 4:00	0	0	52	56	2861	152	58	54	6.8	7.9	8.1	84041152.2	2429	2861	20
1/1/2005 8:00	0	0	55	54	2599	152	57	55	6.8	7.9	8.1	84053985.8	2529	2599	20
1/1/2005 12:00	0	0	51	56	2691	153	57	56	6.8	7.9	8.1	84066756.2	2376	2691	20
1/1/2005 16:00	0	0	51	60	2599	152	57	55	6.8	7.9	8.1	84079589.6	2230	2599	20
1/1/2005 20:00	0	0	53	56	2771	151	57	54	6.8	7.9	8.1	84092322.8	2449	2771	20
1/2/2005 0:00	0	0	51	56	2599	150	57	54	6.7	7.9	8.1	84105062.1	2416	2599	20
1/2/2005 4:00	0	0	52	56	2691	150	56	55	6.7	7.9	8.1	84118055.8	2611	2691	20
1/2/2005 8:00	0	0	52	55	2771	149	57	53	6.7	7.9	8.1	84130810.7	2407	2771	20
1/2/2005 12:00	0	0	51	55	2905	151	56	54	6.7	7.9	8.1	84143814.4	2591	2905	20
1/2/2005 16:00	0	0	51	54	2689	151	57	54	6.7	7.9	8.1	84156578.2	2515	2689	20
1/2/2005 20:00	0	0	50	55	2861	151	57	55	6.8	7.9	8.1	84169402.8	2442	2861	20
1/3/2005 0:00	0	0	53	56	2691	152	58	55	6.8	7.9	8.1	84182215.4	2455	2691	20
1/3/2005 4:00	0	0	51	55	2737	152	57	56	6.8	7.9	8.1	84195064.9	2362	2737	20
1/3/2005 8:00	0	0	51	54	2774	152	57	56	6.8	7.9	8.1	84208133.4	2249	2774	20
1/3/2005 12:00	0	0	50	58	2739	153	57	56	6.8	7.9	8.1	84220904.2	2363	2739	20
1/3/2005 16:00	0	0	51	57	2771	153	58	56	6.8	7.9	8.1	84233890.1	2312	2771	20
1/3/2005 20:00	0	0	53	59	2599	153	58	56	6.8	7.9	8.1	84246482.5	2361	2599	20
1/4/2005 0:00	0	0	53	54	2601	153	57	55	6.8	7.9	8.1	84259486	2279	2601	20
1/4/2005 4:00	0	0	51	56	2737	152	57	56	6.8	7.9	8.1	84272199.7	2333	2737	20
1/4/2005 8:00	0	0	51	0	2541	152	57	55	6.8	7.9	8.1	84285051.7	2255	2541	67
1/4/2005 12:00	0	0	53	56	2601	152	57	114	6.8	7.9	8.2	84297891.7	2225	2601	68
1/4/2005 16:00	0	0	52	56	2555	152	58	55	6.8	7.9	8.2	84310615.4	2363	2555	65
1/4/2005 20:00	0	0	53	55	2691	151	57	55	6.8	7.9	8.2	84323550.2	2479	2691	62
1/5/2005 0:00	0	0	54	57	2555	152	57	55	6.8	7.9	8.2	84336226.8	2219	2555	66
1/5/2005 4:00	0	0	50	57	2870	151	57	55	6.8	7.9	8.2	84349125.3	2434	2870	70
1/5/2005 8:00	0	0	54	58	2546	151	57	54	6.8	7.9	8.2	84361802.1	2447	2546	77
1/5/2005 12:00	0	0	50	56	2528	150	57	53	6.7	7.8	8.1	84374716	2417	2528	66
1/5/2005 16:00	0	0	50	56	2599	150	56	54	6.7	7.8	8.1	84387453.8	2195	2599	71
1/5/2005 20:00	0	0	52	56	2854	150	57	54	6.7	7.8	8.1	84399946	2535	2854	81
1/6/2005 0:00	0	0	54	56	2544	150	57	54	6.7	7.8	8.1	84412710.8	2529	2544	67
1/6/2005 4:00	0	0	52	55	2785	150	56	54	6.7	7.8	8.1	84425599.3	2520	2785	66
1/6/2005 8:00	0	0	50	55	2728	149	57	53	6.7	7.8	8	84438228.2	2668	2728	66
1/6/2005 12:00	0	0	50	59	2771	150	56	53	6.7	7.8	8.1	84451108.2	2634	2771	71
1/6/2005 16:00	0	0	52	56	2544	151	57	54	6.7	7.8	8.1	84464010.8	2328	2544	72
1/6/2005 20:00	0	0	51	58	2730	150	58	54	6.7	7.8	8.1	84476896.7	2539	2730	72
1/7/2005 0:00	0	0	51	55	2541	150	56	55	6.7	7.8	8.1	84489529.8	2421	2541	71
1/7/2005 4:00	0	0	53	55	2597	150	57	53	6.7	7.8	8	84502427.4	2495	2597	77
1/7/2005 8:00	0	0	52	54	3038	149	55	54	6.7	7.8	8.1	84515281.4	2493	3038	78
1/7/2005 12:00	0	0	52	54	2857	149	56	54	6.7	7.8	8.1	84527921.8	2607	2857	71
1/7/2005 16:00	0	0	51	54	2730	149	56	54	6.7	7.8	8.1	84540770.3	2554	2730	72
1/7/2005 20:00	0	0	52	54	2769	149	56	53	6.7	7.8	8.1	84553604.7	2774	2769	73
1/8/2005 0:00	0	0	54	56	2728	149	56	53	6.7	7.8	8	84566422.2	2769	2728	71
1/8/2005 4:00	0	0	52	56	2903	150	56	54	6.7	7.8	8	84579264.2	2561	2903	66
1/8/2005 8:00	0	0	51	58	2771	150	54	53	6.7	7.8	8	84592096	2478	2771	72
1/8/2005 12:00	0	0	51	54	2689	150	57	54	6.7	7.8	8	84604940.6	2627	2689	72
1/8/2005 16:00	0	0	53	56	2689	150	56	54	6.7	7.8	8.1	84617766.8	2610	2689	72
1/8/2005 20:00	0	0	51	0	2597	150	56	54	6.7	7.8	8.1	84630483.2	2437	2597	72
1/9/2005 0:00	0	0	51	58	2854	150	56	54	6.7	7.8	8	84643237.4	2631	2854	67
1/9/2005 4:00	0	0	51	56	2852	149	56	53	6.7	7.8	8	84656095.1	2761	2852	73
1/9/2005 8:00	0	0	53	55	2861	149	56	53	6.7	7.8	8	84668913.9	2607	2861	82
1/9/2005 12:00	0	0	51	55	2689	149	57	54	6.7	7.8	8	84681734	2586	2689	72
1/9/2005 16:00	0	0	53	54	2728	150	56	53	6.7	7.8	8.1	84694577.7	2680	2728	81
1/9/2005 20:00	0	0	54	53	2928	150	56	54	6.7	7.8	8.1	84707414.9	2574	2928	73
1/10/2005 0:00	0	0	50	57	2774	150	54	54	6.7	7.8	8.1	84720217.7	2519	2774	71
1/10/2005 4:00	0	0	50	54	2707	150	56	54	6.7	7.8	8.1	84733026.1	2458	2707	77
1/10/2005 8:00	0	0	52	56	2852	150	55	55	6.7	7.8	8.1	84745865.3	2428	2852	72
1/10/2005 12:00	0	0	54	54	2541	151	56	54	6.7	7.8	8.1	84758725	2494	2541	71
1/10/2005 16:00	0	0	52	54	2774	151	56	55	6.7	7.9	8.1	84771541.5	2505	2774	72
1/10/2005 20:00	0	0	51	54	2735	150	55	54	6.7	7.8	8.1	84784300.5	2426	2735	67
1/11/2005 0:00	0	0	54	0	2774	150	56	54	6.7	7.8	8.1	84797133.1	2601	2774	72
1/11/2005 4:00	0	0	51	56	2771	150	54	53	6.7	7.8	8.1	84809945.3	2700	2771	72
1/11/2005 8:00	0	0	50	54	2903	150	56	54	6.7	7.8	8.1	84822858.4	2624	2903	81
1/11/2005 12:00	0	0	53	53	2854	150	56	53	6.7	7.8	8.1	84835532.8	2458	2854	78
1/11/2005 16:00	0	0	53	53	2774	150	56	54	6.7	7.8	8.1	84848448	2645	2774	81
1/11/2005 20:00	0	0	52	55	2859	150	55	54	6.7	7.8	8.1	84861108.7	2504	2859	74
1/12/2005 0:00	0	0	52	54	2599	150	56	54	6.7	7.8	8.1	84874008.7	2514	2599	78
1/12/2005 4:00	0	0	51	8	2691	150	57	54	6.7	7.8	8.1	84883467	2424	2691	71
1/12/2005 8:00	0	0	51	55	2735	150	56	54	6.7	7.8	8.1	84896180.1	2394	2735	72
1/12/2005 12:00	0	0	54	55	2691	151	57	54	6.7	7.8	8.1	84908734	2585	2691	77
1/12/2005 16:00	0	0	52	56	2689	151	58	54	6.7	7.8	8.1	84921697.9	2455	2689	73
1/12/2005 20:00	0	0	51	55	2691	150	55	54	6.7	7.8	8.1	84934356.5	2503	2691	86
1/13/2005 0:00	0	0	54	55	2735	150	56	54	6.7	7.8	8.1	84947282.1	2417	2735	72
1/13/2005 4:00	0	0	53	54	2599	151	56	54	6.7	7.8	8.1	84959971.8	2486	2599	72
1/13/2005 8:00	0	0	50	54	2544	151	57	54	6.8	7.8	8.1	84972894.8	2536	2544	71
1/13/2005 12:00	0	0	53	53	2863	152	56	55	6.8	7.9	8.1	84985629.5	2442	2863	81
1/13/2005 16:00	0	0	52	54	2601	154	57	56	6.8	7.9	8.1	84998310.4	2247	2601	81
1/13/2005 20:00	0	0	56	55	2737	153	57	56	6.8	7.9	8.2	85011260.9	2150	2737	72
1/14/2005 0:00	0	0	52	54	2744	154	56	56	6.8	7.9	8.2	85023974.5	2178	2744	71
1/14/2005 4:00	0	0	50	56	2601	154	57	56	6.8	7.9	8.2	85036892.4	2245	2601	72
1/14/2005 8:00	0	0	50	55	2601	154	57	56	6.8	7.9	8.2	85049438.5	2144	2601	70
1/14/2005 12:00	0	0	52	55	2863	151	56	55	6.8	7.9	8.2	85062358.2	2449	2863	86
1/14/2005 16:00	0	0	53	53	2907	150	56	54	6.7	7.9	8.1	85074988.1	2497	2907	72
1/14/2005 20:00	0	0	52	53	2735	150	56	54	6.7	7.8	8.1	85087889	2657	2735	81
1/15/2005 0:00	0	0	53	53	2771	149	55	53	6.7	7.8	8.1	85100553.8	2516	2771	73
1/15/2005 4:00	0	0	49	54	2771	148	55	53	6.7	7.8	8.1	85113401.7	2662	2771	81
1/15/2005 8:00	0	0	51	54	2988	148	54	53	6.7	7.8	8.1	85126263.2	2788	2988	72
1/15/2005 12:00	0	0	52	55	2905	148	56	53	6.7	7.8	8.1	85139104.7	2736	2905	77
1/15/2005 16:00	0	0	52	53	2771	148	55	53	6.7	7.8	8.1	85151951.8	2589	2771	81
1/15/2005 20:00	0	0	50	6	2730	148	55	52	6.7	7.8	8	85164675.4	2541	2730	77
1/16/2005 0:00	0	0	51	55	2689	148	55	53	6.7	7.8	8	85177284.8	2512	2689	78
1/16/2005 4:00	0	0	51	55	2903	148	55	53	6.7	7.8	8	85190063.8	2610	2903	73

1/16/2005 8:00	0	0	50	53	2988	148	54	53	6.7	7.8	8	85202831.3	2599	2988	81
1/16/2005 12:00	0	0	52	53	2857	148	55	53	6.7	7.8	8	85215823.4	2585	2857	77
1/16/2005 16:00	0	0	53	56	2771	148	55	53	6.7	7.8	8	85228489.3	2556	2771	76
1/16/2005 20:00	0	0	50	53	2728	149	55	53	6.7	7.8	8	85241295	2514	2728	76
1/17/2005 0:00	0	0	51	54	2597	148	55	53	6.7	7.8	8	85254096.8	2475	2597	79
1/17/2005 4:00	0	0	51	52	2903	148	56	53	6.7	7.8	8	85267109.7	2605	2903	72
1/17/2005 8:00	0	0	50	54	2988	148	54	52	6.7	7.8	8	85279888.8	2708	2988	66
1/17/2005 12:00	0	0	50	53	2988	148	55	52	6.7	7.8	8	85292803.1	2555	2988	62
1/17/2005 16:00	0	0	51	52	2857	148	54	52	6.7	7.8	8.1	85305587.5	2790	2857	71
1/17/2005 20:00	0	0	51	54	2725	147	56	52	6.7	7.8	8	85318328.4	2772	2725	71
1/18/2005 0:00	0	0	50	56	2960	147	54	52	6.7	7.7	8	85331259.1	2697	2960	66
1/18/2005 4:00	0	0	51	57	2771	146	53	52	6.6	7.7	8	85343956.3	2762	2771	40
1/18/2005 8:00	0	0	52	51	2774	146	55	52	6.8	7.8	8.2	85356830.2	2804	2774	66
1/18/2005 12:00	0	0	49	52	2928	147	56	52	6.9	7.9	8.3	85369840.2	2599	2928	65
1/18/2005 16:00	0	0	0	0	18	147	65	168	7	7.9	8.3	85373043.6	0	18	20
1/18/2005 20:00	0	0	50	52	2889	146	56	109	7	7.9	8.4	85379245.6	2736	2889	71
1/19/2005 0:00	0	0	51	54	3172	146	55	110	6.9	7.9	8.4	85391985	2825	3172	33
1/19/2005 4:00	0	0	52	53	2891	147	56	109	6.9	7.9	8.4	85404729.7	2599	2891	78
1/19/2005 8:00	0	0	50	52	3043	147	56	110	6.9	7.9	8.4	85417477.9	2474	3043	76
1/19/2005 12:00	0	0	51	55	2774	148	56	112	6.9	7.9	8.4	85430221.3	2507	2774	81
1/19/2005 16:00	0	0	49	54	2776	149	56	114	6.9	7.9	8.4	85442981.3	2262	2776	68
1/19/2005 20:00	0	0	0	52	18	147	56	113	6.9	8	8.4	85455743.2	22	18	19
1/20/2005 0:00	0	0	0	0	18	151	75	223	7	8	8.2	85455771	22	18	19
1/20/2005 4:00	0	0	0	0	18	154	73	248	7.3	8	8	85455771	33	18	18
1/20/2005 8:00	0	0	0	0	18	156	75	253	7.5	8	7.8	85455771	28	15	18
1/20/2005 12:00	0	0	37	1	2898	147	27	54	6.9	8	8.4	85460180.5	2540	2898	80
1/20/2005 16:00	0	0	36	29	2932	147	56	55	6.9	8	8.3	85469510.7	2409	2932	70
1/20/2005 20:00	0	0	46	73	2774	148	42	55	6.9	8	8.3	85480141.6	2564	2774	82
1/21/2005 0:00	0	0	47	0	2990	147	56	55	6.9	7.9	8.3	85491458.5	2457	2990	80
1/21/2005 4:00	0	0	46	73	2893	147	56	55	6.9	7.9	8.3	85502891.3	2625	2893	78
1/21/2005 8:00	0	0	46	0	2926	146	1	54	6.9	7.9	8.3	85514310.3	2656	2926	66
1/21/2005 12:00	0	0	44	72	2932	146	24	54	6.9	8	8.3	85525706.8	2607	2932	76
1/21/2005 16:00	0	0	44	0	2893	147	57	54	6.9	7.9	8.3	85537117.1	2656	2893	70
1/21/2005 20:00	0	0	47	72	2774	146	56	54	6.9	7.9	8.3	85548544.7	2625	2774	73
1/22/2005 0:00	0	0	44	0	3140	146	56	54	6.9	7.9	8.3	85559905.5	2716	3140	34
1/22/2005 4:00	0	0	44	73	3043	145	57	54	6.9	7.9	8.3	85571267.5	2652	3043	27
1/22/2005 8:00	0	0	48	74	2990	148	23	54	6.9	7.9	8.3	85582760.4	2787	2990	500
1/22/2005 12:00	0	0	48	0	2990	146	26	55	6.9	7.9	8.3	85594072.5	2715	2990	77
1/22/2005 16:00	0	0	48	74	2932	148	33	55	6.9	7.9	8.3	85605588.9	2548	2932	72
1/22/2005 20:00	0	0	45	75	2776	148	41	55	6.9	8	8.3	85616991.9	2448	2776	75
1/23/2005 0:00	0	0	46	75	2891	148	25	56	6.9	8	8.3	85628617.9	2180	2891	72
1/23/2005 4:00	0	0	46	76	2891	148	57	55	6.9	8	8.3	85639884.4	2462	2891	70
1/23/2005 8:00	0	0	47	71	2923	147	28	55	6.8	8	8.3	85651523.6	2343	2923	66
1/23/2005 12:00	0	0	46	72	2930	147	29	54	6.8	8	8.2	85662923.8	2453	2930	74
1/23/2005 16:00	0	0	46	1	2923	147	57	54	6.8	7.9	8.3	85674332.6	2500	2923	70
1/23/2005 20:00	0	0	46	76	3043	148	56	54	6.8	7.9	8.3	85685712.9	2605	3043	71
1/24/2005 0:00	0	0	45	4	2930	146	14	54	6.8	7.9	8.3	85697194.2	2824	2930	71
1/24/2005 4:00	0	0	46	11	2923	145	56	54	6.8	7.9	8.3	85708837.4	2893	2923	500
1/24/2005 8:00	0	0	46	2	2926	146	6	54	6.8	7.9	8.3	85719989.1	2703	2926	80
1/24/2005 12:00	0	0	47	73	2932	147	29	55	6.8	8	8.3	85731394.2	2671	2932	76
1/24/2005 16:00	0	0	44	60	2928	147	38	55	6.9	7.9	8.3	85742895.9	2521	2928	71
1/24/2005 20:00	0	0	50	0	2893	148	31	56	6.9	7.9	8.3	85755280.7	2558	2893	71
1/25/2005 0:00	0	0	51	72	2893	148	54	56	6.8	7.9	8.3	85768096.1	2585	2893	70
1/25/2005 4:00	0	0	50	9	2608	148	17	56	6.8	7.9	8.3	85780994.6	2645	2608	76
1/25/2005 8:00	0	0	50	78	2990	148	21	56	6.8	7.9	8.3	85793640	2534	2990	80
1/25/2005 12:00	0	0	51	74	2774	149	27	57	6.6	8	8.3	85806586.1	2299	2774	75
1/25/2005 16:00	0	0	50	73	2778	149	35	56	6.9	8	8.3	85819185	2370	2778	70
1/25/2005 20:00	0	0	51	74	2771	149	31	57	6.9	8	8.3	85832086.4	2453	2771	75
1/26/2005 0:00	0	0	49	0	2544	149	22	57	6.9	8	8.3	85844709.6	2462	2544	70
1/26/2005 4:00	0	0	52	73	2930	150	58	57	6.8	7.9	8.3	85857824.1	2447	2930	60
1/26/2005 8:00	0	0	51	2	2774	150	58	58	6.7	7.9	8.1	85870433.8	2427	2774	77
1/26/2005 12:00	0	0	54	72	2544	151	58	58	6.7	8	8.1	85883214	2516	2544	77
1/26/2005 16:00	0	0	51	72	2780	150	58	58	6.7	8	8.1	85896136.2	2467	2780	77
1/26/2005 20:00	0	0	52	73	2780	149	58	56	6.7	8	8.1	85908740.8	2520	2760	77
1/27/2005 0:00	0	0	53	72	2893	148	59	55	6.7	8	8.1	85921851.9	2614	2693	77
1/27/2005 4:00	0	0	53	8	2774	147	58	55	6.7	8	8.1	85934246.5	2680	2774	81
1/27/2005 8:00	0	0	52	75	2774	147	58	54	6.7	8	8.1	85947036.8	2553	2774	77
1/27/2005 12:00	0	0	52	72	2776	147	58	55	6.8	8	8.1	85959923.6	2772	2776	81
1/27/2005 16:00	0	0	50	72	2919	147	58	54	6.8	8	8.1	85972536.5	2731	2919	76
1/27/2005 20:00	0	0	50	77	2893	147	57	55	6.8	7.9	8.1	85985486.8	2727	2893	82
1/28/2005 0:00	0	0	50	73	2932	147	58	54	6.8	7.9	8.1	85998110.1	2741	2932	69
1/28/2005 4:00	0	0	51	74	2921	147	58	54	6.8	7.9	8.1	86010968.6	2650	2921	85
1/28/2005 8:00	0	0	50	0	2921	147	58	54	6.8	7.9	8.1	86023705.1	2910	2921	86
1/28/2005 12:00	0	0	51	76	2776	148	58	55	6.8	8	8.1	86036393.7	2619	2776	80
1/28/2005 16:00	0	0	51	3	2877	148	58	55	6.8	8	8.1	86049283.7	2605	2877	77
1/28/2005 20:00	0	0	52	72	2930	148	58	55	6.8	7.9	8.1	86061932	2585	2930	81
1/29/2005 0:00	0	0	51	17	3043	147	58	55	6.8	7.9	8.1	86074831.7	2710	3043	78
1/29/2005 4:00	0	0	52	76	2882	147	58	54	6.8	7.9	8.1	86087464.5	2673	2882	82
1/29/2005 8:00	0	0	53	72	2880	148	58	54	6.8	7.8	8.1	86100422.6	2754	2880	86
1/29/2005 12:00	0	0	51	73	2930	149	58	56	6.8	7.9	8.1	86113065.8	2373	2930	86
1/29/2005 16:00	0	0	51	76	2782	150	58	56	6.8	7.9	8.1	86126034.3	2504	2782	77
1/29/2005 20:00	0	0	53	75	2760	149	58	56	6.8	7.9	8.1	86138668.3	2558	2760	78
1/30/2005 0:00	0	0	49	73	2882	149	58	55	6.8	7.9	8.1	86151808	2713	2882	75
1/30/2005 4:00	0	0	54	0	2919	149	58	56	6.8	7.9	8.1	86164348.1	2612	2919	77
1/30/2005 8:00	0	0	52	74	2921	150	58	56	6.8	7.9	8.1	86177233.7	2468	2921	79
1/30/2005 12:00	0	0	52	0	2880	150	58	56	6.8	7.9	8.1	86190044.3	2548	2880	75
1/30/2005 16:00	0	0	50	73	2396	150	58	56	6.8	7.9	8.1	86202764.1	2381	2396	77
1/30/2005 20:00	0	0	52	8	2778	150	58	56	6.8	7.9	8.1	86215684	2488	2778	77
1/31/2005 0:00	0	0	52	73	2893	149	58	55	6.8	7.9	8.1	86228272.8	2587	2893	70
1/31/2005 4:00	0	0	50	72	2782	149	58	55	6.8	7.9	8.2	86241189.7	2523	2782	77
1/31/2005 8:00	0	0	52	74	2760	149	58	55	6.8	7.9	8.2	86253823.5	2688	2760	82
1/31/2005 12:00	0	0	52	73	2919	150	58	55	6.8	8	8.2	86266770	2449	2919	81
1/31/2005 16:00	0	0	50	72	2732	150	58	55	6.8	8	8.2	86279413.2	2617	2732	82
1/31/2005 20:00	0	0	51	71	3043	149	58	56	6.8	7.9	8.1	86292331.2	2496	3043	82

Appendix D

Sampling Trip Reports

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
CERCLIS ID Number: NYD047650197
Sampling Dates: January 18, 2005
CLP Case Number: N/A
Site Location: 110 Cutter Mill Road, Great Neck, New York, 11021
Sample Descriptions: Supplemental Indoor Air Sampling

Laboratories Receiving Samples:

Case Number	Sample Type	Name and Address of Laboratory
N/A	EPA-TO-15	Data Chem Laboratories (DCL) 960 W. Leroy Drive Salt Lake City, Utah 84123

Sample Dispatch Data:

On January 18, 2005, two SUMMA Canister air samples were shipped to Data Chem Laboratories (DCL) in Salt Lake City, UT for analysis via EPA method TO-15.

FedEx Airbill No.	Number of Boxes	Number and Type of Samples	Time and Date of Shipping
850424593808	1	2 Air samples for analysis EPA Method TO-15.	1/18/05 @ 1700 TO: DCL

Sampling Personnel:

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

Sample Numbers and Collection Points:

Appendix A includes a table with a list of all SUMMA Canister collection points and their assigned sample numbers. The sample chain of custody form and FedEx Airbills are included in Appendix B and C respectively.

Additional Comments:

Summa Canister sample number LH-0141 was collected over a 24-hour period from January 17 to January 18, 2005 in the breathing zone of the second floor office area in the treatment building. Sample number LH-0142 was a grab sample collected from the combined influent line of the Soil Vapor Extraction System. Both air samples were analyzed for volatile organic compounds via EPA Method TO-15.

APPENDIX A

SAMPLE NUMBERS AND COLLECTION POINTS

Stanton Cleaners Groundwater Contamination Site
Supplemental Indoor Air Quality Sampling (Summa Cansister)
January 2005

Sample ID	Analytical Method	Location	Start Date / Time	End Date / Time	Total Time	Initial and Final Pressure	Summa Number	Valve Number
LH-0141	EPA-TO-15	EPA Treatment Building - 2nd Floor	1/17/2005 1255	1/18/2005 1255	24 hours	Initial: 29" Hg Final: 0" Hg	108676	108984
LH-0142	EPA-TO-15	SVE Combined Influent	1/18/2005 1315	1/18/2005 1316	1 minute	Initial: 28" Hg Final: 0" Hg	108736	--

APPENDIX B

CHAIN OF CUSTODY

DATA CHEM LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. ☒ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date _____ Purchase Order No. _____

3. Company Name Earth Tech, Inc. 4ECC
Address 1293 Broad Street, Suite 200
Bloomfield, NJ 07003
Person to Contact Dave Miller
Telephone (973) 338-7011
Fax Telephone ( )
E-mail Address dmiller@ecc.net
Billing Address (if different from above)
Environmental Chemical Corp.
1293 Broad Street, Suite 200
Bloomfield, NJ

4. Quote No. _____
DCL Project Manager _____

5. Sample Collection
Sampling Site Stanton-LTRA
Industrial Process _____
Date of Collection 1/18/05
Time Collected _____
Date of Shipment 1/18/05
Chain of Custody No. _____

6. REQUEST FOR ANALYSES

Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
LH-0141	Air	6L Summa	EPA-TO15	ug/m3
LH-0142	Air	6L Summa	EPA-TO15	ug/m3

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. ug/sample 2. mg/m^3 3. ppm 4. % 5. ____ (other) Please indicate one or more units in the column entitled Units**

Comments Report in units ug/m3

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by	John Hutsman	Date/Time	1/18/05 17:00
Received by	FedEx	Date/Time	1/18/05 17:00
Relinquished by		Date/Time	
Received by		Date/Time	
Relinquished by		Date/Time	
Received by		Date/Time	

960 West LeVoy Drive / Salt Lake City, UT 84123
DATACHEM LABORATORIES, INC.
800-356-9135 or 801-266-7700 / FAX: 801-268-9992
www.datachem.com

APPENDIX C

FEDEX AIRBILLS

FedEx Express. US Airbill

FedEx Tracking Number 850424593808

1 From Please print and press hard.

Date 11/8/05 Sender's FedEx Account Number 2374-4259-8

Sender's Name John Huisman Phone (347)538-4522

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. 5422.001 PTIO

3 To

Recipient's Name Sample Custodian Phone (800) 356-9135

Company DataChem Laboratories

Recipient's Address 960 West Leroy Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Salt Lake City State UT ZIP 84123

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.GoFedEx 1.800.463.3339.

Sender's Copy

4a Express Package Service — Packages up to 150 lbs.

- [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*
- [ ] FedEx Express Saver — Third business day*

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

4b Express Freight Service — 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 $500

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

6 Special Handling — Include FedEx address in Section 3.

- [ ] 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? 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. or Credit Card No.

Exp. Date

Total Packages	Total Weight	Total Declared Value†
1		$ .00

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

FedEx Use Only

8 Sign to Authorize Delivery Without a 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.

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SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE
CERCLIS ID Number: NYD047650197
Sampling Dates: January 20, 2005
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 January 20, 2005 four groundwater samples, including extra volume for Matrix Spike / Matrix Spike Duplicate (MS/MSD) analysis, one 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
850424593819	1	4 Aqueous Samples including 1 MS/MSD, 1 duplicate sample, and 1 Trip Blank for TCL-VOAs.	1/20/05 @ 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	CLP Sample #	Sample Collection Point(SCP)
USEPA	TCL-VOAs	Aqueous Groundwater	B1W00	SC-01
			B1W02	SC-04 (MS/MSD)
			B1W01	SC-74 (Dupl SP-01)
			B1W03	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-74 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: L
DAS No:
SDG No:

Date Shipped:	1/20/2005
Carrier Name:	FedEx
Airbill:	850424593819
Shipped to:	USEPA REGION II DESA LAB 2890 Woodbridge Avenue Building 209, MS-230 Edison NJ 08837 (732) 906-6886

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	John Huisman	1/20/05 17:00	Fedex	1/20/05 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
B1W00	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-01	S: 1/20/2005 12:00		
B1W01	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-74	S: 1/20/2005 12:00		
B1W02	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (9)	SC-04	S: 1/20/2005 11:30		
B1W03	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-TB	S: 1/20/2005		

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:	
	B1W02				
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: 2-183255802-012005-0001

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
Project Code:	
Account Code:	
CERCLIS ID:	NYD047650197
Spill ID:	02LH
Site Name/State:	Stanton Cleaners Site/NY
Project Leader:	John Huisman
Action:	Operations and Maintenance
Sampling Co:	Earth Tech, Inc.

Date Shipped:	1/20/2005
Carrier Name:	FedEx
Airbill:	850424593819
Shipped to:	USEPA REGION II DESA LAB 2890 Woodbridge Avenue Building 209, MS-230 Edison NJ 08837 (732) 906-6886

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	John Huisman 1/20/05 17:00	Fedex 1/20/05 17:00
2		
3		
4		

Sampler Signature: John Huisman

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
B1W00	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-01	S: 1/20/2005 12:00		–
B1W01	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-74	S: 1/20/2005 12:00		Field Duplicate
B1W02	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (9)	SC-04	S: 1/20/2005 11:30		–
B1W03	Ground Water/ John Huisman	L/G	VOA (14)	(HCL) (3)	SC-TB	S: 1/20/2005		Field QC

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: B1W02	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 2-183255802-012005-0001

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

REGION COPY

APPENDIX D-2

FEDEX AIRBILLS

FedEx Express US Airbill

FedEx Tracking Number: 850424593819

1 From Please print and press hard.

Date: 1120105 Sender's FedEx Account Number: 2374-4259-8

Sender's Name: John Huisman Phone: (347)538-4522

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 Custodian Phone: (732) 906-6896

Company: USEPA Region II DESA LAB

Recipient's Address: 2890 Woodbridge Avenue Dept./Floor/Suite/Room:
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address: Building 209, MS-230
To request a package be held at a specific FedEx location, print FedEx address here.

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.GoFedEx 1.800.463.3339.

Sender's Copy

4a Express Package Service — Packages up to 150 lbs.

- [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*
- [ ] FedEx Express Saver — Third business day*

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

4b Express Freight Service — 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 $500

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

6 Special Handling — Include FedEx address in Section 3.

- [ ] 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? 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†
1		$ .00

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

FedEx Use Only

8 Sign to Authorize Delivery Without a 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.

467

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APPENDIX D-3

WATER QUALITY DATA

STANTON CLEANERS SITE LTRA

Groundwater Pump and Treatment System
Water Quality Parameters Log

Date: 1/20/05
Project # 70536

	pH	COND	TURB	DO	TEMP.	SALINITY
Combined Influent	7.50	0.56	.1.1	6.2	53.2	0.01
Discharge	7.9	0.55	0.0	9	55.1	0.01

Total Gallons pumped: 85,459,624 gallons
Flow rate: 73 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-74 : 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)	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**
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
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	Acetone	1.2	
Influent Dup	SC-66	B1BS8	5/20/2004	Acetone	0	
				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	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	
Effluent	SC-04	B1BS7	6/15/2004	Tetrachloroethene	2.1	
				MTBE	2.3	

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 Dup	SC-67	B1BS8	6/15/2004	*cis*-1,2-Dichloroethene	1.2	
				Trichloroethene	2.2	
				Tetrachloroethene	330	
Trip Blank	SC-TB	B1BS9	6/15/2004	None		
Influent	SC-01	B1FJ2	7/13/2004	Acetone	0.8	
				MTBE	2.3	
				cis-1,2-Dichloroethene	1.1	
				Trichloroethene	1.7	
				Tetrachloroethene	170	
Effluent	SC-04	B1FJ3	7/13/2004	Acetone	0.72	
				Tetrachloroethene	2	
Influent Dup	SC-67	B1FJ4	7/13/2004	MTBE	2.4	
				cis-1,2-Dichloroethene	1.1	
				Trichloroethene	1.8	
				Tetrachloroethene	160	
Trip Blank	SC-TB	B1FJ5	7/13/2004	Acetone	0.73	
				Acetic Acid, Ethyl Ester	2.5	NJ
Influent	SC-01	B1GH2	8/16/2004	MTBE	1.9	
				cis-1,2-Dichloroethene	0.7	
				Trichloroethene	1.5	
				Tetrachloroethene	200	
				Acetone	2	
Effluent	SC-04	B1GH3	8/16/2004	Tetrachloroethene	5.4	
				Acetone	1.6	
Influent Dup	SC-69	B1GH4	8/16/2004	Acetone	1.2	
				MTBE	2	
				cis-1,2-Dichloroethene	0.7	
				Trichloroethene	1.5	
				Tetrachloroethene	210	
Influent	SC-01			Chloromethane	0.80	
				Acetone	1.0	
				MTBE	1.5	
				cis-1,2-Dichloroethene	0.70	
				Trichloroethene	1.4	
				Tetrachloroethene	200	
Effluent	SC-04			Chloromethane	0.80	
				Acetone	2.1	
				Tetrachloroethene	1.7	
Influent Dup	SC-70			Acetone	1.0	
				MTBE	1.3	
				cis-1,2-Dichloroethene	0.60	
				Trichloroethene	1.4	
				Tetrachloroethene	210	
Trip Blank	SC-TB			Acetone	2.2	
				2-Butanone	1.5	
Influent	SC-01	B1LZ2	10/21/2004	Acetone	5	J
				Methylene chloride	0.2	J
				MTBE	0.82	
				cis-1,2-Dichloroethene	0.5	
				Trichloroethene	1.2	
				Tetrachloroethene	220	
Effluent	SC-04	B1LZ3	10/21/2004	Acetone	5	J
				Methylene chloride	0.5	UJ
				Tetrachloroethene	0.2	J
				Acetone	5	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**
Influent Dup	SC-71	B1LZ4	10/21/2004	Methylene chloride	1.1	
				MTBE	1.1	
				cis-1,2-Dichloroethene	0.64	
				Trichloroethene	1.1	
				Tetrachloroethene	210	(D)
Trip Blank	SC-TB	B1LZ5	10/21/2004	Acetone	5.7	
				Methylene chloride	0.68	
				Toluene	0.39	J
Influent	SC-01	B1T22	11/17/2004	Acetone	3	J
				Methylene chloride	1.3	U
				MTBE	1.3	
				cis-1,2-Dichloroethene	0.64	
				Trichloroethene	1.2	
				Tetrachloroethene	170	(D)
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)
Trip Blank	SC-TB	B1T25	11/17/2004	Acetone	3	J
				Methyl Acetate	0.5	UJ
				Methylene chloride	0.46	J
				2-Butanone	2.4	J
				Tetrachloroethene	9.6	
				1,2,3-Trichlorobenzene	0.5	UJ
Influent	SC-01	B1T79	12/15/2004	MTBE	1.6	
				cis-1,2-Dichloroethene	0.45	J
				Trichloroethene (TCE)	1.0	J
				Tetrachloroethene	100	(D)
				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
Influent Dup	SC-73	B1T80	12/15/2004	Methyl tert-Butyl Ether	1.6	
				cis-1,2-Dichloroethene	0.48	J
				Trichloroethene	0.98	J
				4-Methyl-2-pentanone	10	R
				Tetrachloroethene	98	(D)
				2-Hexanone	10	R
Trip Blank	SC-TB	B1T82	12/15/2004	Chloroform	0.1	J
				Cyclohexane	0.15	J
				Benzene	0.5	JB
				Toluene	0.21	J
Influent	SC-01	B1W00	1/21/2005	MTBE	1.5	
				cis-1,2-Dichloroethene	0.7	
				Trichloroethene (TCE)	1.4	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**
				Tetrachloroethene	160	
Effluent	SC-04	B1W02	1/21/2005	Acetone	1.8	
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	
				Acetone	10	
Trip Blank	SC-TB	B1W03	1/21/2005	Acetone	3.5	

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: 1/ 12 / 2005
Project # 70536

	MultiRAE Plus PGM-50					VelociCalc Plus				
	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
Influent SVE	4.5	0	20.90%	0%	0	100.5	NA	34.56%	-3.20	120
Post Air Stripper	0.0	0	20.90%	0%	0	64.3	NA	34.50%	-3.40	2000
Post SVE Carbon	0.5	0	20.90%	0%	0	81.0	NA	34.50%	-3.51	NA
Post AS Carbon	0.0	0	20.90%	0%	0	79.8	NA	36.20%	-3.20	2200
Background	0.0	0	20.90%	0%	0	33.2	NA	41.34%	-6.10	NA

Total gallons pumped: 84,875,131 gallons
Flow Rate: 56 gpm

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

Comments:
New SVE well EPA-EXT-04 online since 11/4/04
EPA-EXT-04 PID Reading = 1.9 ppm

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
AS: Air Stripper
SVE: Soil Vapor Extraction System

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

Date: 1/ 17 / 2005
Project # 70536

	MultiRAE Plus PGM-50					VelociCalc Plus				
	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
Influent SVE	4.3	0	21.00%	0%	0	102.0	NA	42.33%	-5.40	120
Post Air Stripper	0.0	0	20.90%	0%	0	65.2	NA	42.32%	-5.50	2000
Post SVE Carbon	0.5	0	21.00%	0%	0	80.9	NA	42.31%	-5.46	NA
Post AS Carbon	0.0	0	20.90%	0%	0	80.3	NA	42.35%	-5.40	2200
Background	0.0	0	20.90%	0%	0	33.2	NA	46.30%	7.66	NA

Total gallons pumped: 84,875,131 gallons
Flow Rate: 56 gpm

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

Comments:
New SVE well EPA-EXT-04 online since 11/4/04
EPA-EXT-04 PID Reading = 2.1 ppm

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
AS: Air Stripper
SVE: Soil Vapor Extraction System

Appendix G

Quarterly Groundwater Sampling Analytical Data

Not applicable this month

Appendix H

Historical Groundwater Level Monitoring Results (Ongoing)

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	
		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
EPA-MW-21	84.13	66.61	17.52	65.67	18.46
EPA-MW-22	82.20	64.33	17.87	64.44	17.76
EPA-MW-23	82.83	65.16	17.67	65.10	17.73
EPA-MW-27	69.32	52.24	17.08	51.87	17.45
ST-MW-02	82.03	64.54	17.49	64.78	17.25
ST-MW-06	69.83	44.11	25.72	55.41	14.42
ST-MW-09	78.13	59.98	18.15	62.31	15.82
ST-MW-11	75.25	60.50	14.75	59.99	15.26
ST-MW-12	87.20	71.36	15.84	71.98	15.22
ST-MW-14	69.73	55.56	14.17	56.51	13.22
ST-MW-16	75.78	54.85	20.93	57.08	18.70
ST-MW-17	86.53	70.80	15.73	71.03	15.50
ST-MW-19	82.50	64.32	18.18	64.76	17.74
ST-MW-20	84.53	71.66	12.87	72.43	12.10

EARTH TECH

A Tyco Infrastructure Services Company

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners	JOB NUMBER:	70536
LOCATION:	Great Neck, NY	DATE:	1/3/2005
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	59.10	15.53	missing 1 bolt
EPA-MW-21	ft BTOC	84.13	65.67	18.46	missing 1 bolt
EPA-MW-22	ft BTOC	82.20	64.44	17.76	
EPA-MW-23	ft BTOC	82.83	65.10	17.73	
EPA-MW-27	ft BTOC	69.32	51.87	17.45	no bolts
ST-MW-02	ft BTOC	82.03	64.78	17.25	
ST-MW-06	ft BTOC	69.83	55.41	14.42	
ST-MW-09	ft BTOC	78.13	62.31	15.82	
ST-MW-11	ft BTOC	75.25	59.99	15.26	no bolts
ST-MW-12	ft BTOC	87.20	71.98	15.22	missing 1 bolt
ST-MW-14	ft BTOC	69.73	56.51	13.22	no bolts
ST-MW-16	ft BTOC	75.78	57.08	18.70	no bolts
ST-MW-17	ft BTOC	86.53	71.03	15.50	no bolts
ST-MW-19	ft BTOC	82.50	64.76	17.74	no bolts
ST-MW-20	ft BTOC	84.53	72.43	12.10	no bolts

Notes:

WAGNN Well #9 was pumping at 1,000 GPM during water level measurements on1/3/05

Treatment System:
Total Gallons Pumped: 84,200,102
Pumping Rate: 57 GPM

Appendix I

Indoor Air Quality Analytical Data

DATA CHEM LABORATORIES
A Sorenson Company

COVER PAGE

JAN 26 2005 frm COVER-V1.4
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Page 1

ANALYTICAL REPORT FOR
Environmental Chemical Corporation

Phone(973) 338-7011 Fax(973) 338-7950
E-mail: dmiller@ecc.net

G050L01B

DCL Report Group..: **05I-0140-01**

Date Printed.....: 26-JAN-05 09:38

Project Protocol #: P021C002
Client Ref Number.: 70536
Release Number....: 70536

Analysis Method(s): TO-15

Environmental Chemical Corporation
Attention: David Miller
1293 Broad Street
Suite 200
Bloomfield, NJ 07003

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
LH-0141 | 108876	05I01099	Not Provided	19-JAN-05
LH-0142 | 108736	05I01100	Not Provided	19-JAN-05
Method Blank	BL-227387-1	NA	NA
LCS	QC-227387-1	NA	NA
LCS Dup	QD-227387-1	NA	NA

Analyst: Thomas J. Masoian — Date 1.26.05

Reviewer: Christopher Q. Coleman — Date 1.26.05

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

DCL Report Group..: **05I-0140-01**
Date Printed.....: 26-JAN-05 11:54

Client Name...: Environmental Chemical Corporation

Release Number....: 70536

Sample Group Comments

Analyzed by GC/MS according to method TO15.

PQL - Practical Quantitation Limit - Lowest standard that is detectable.
MDL - Method Detection Limit - Statisticaly derived value using 40 CFR methods.

$\mu g/m^3$ formula: (Result * MW) / 24.45

The "E" qualifier indicates a reported value above the analytical linear range.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.
Report generation options: IBX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S050L040

Date Printed.....: 26-JAN-05 11:54

Client Name.....: Environmental Chemical Corporation
Client Ref Number....: 70536
Sampling Site.....: Stanton-LTRA
Release Number.....: 70536

Date Received.....: 19-JAN-05 00:00

Client Sample Name: **LH-0141|108876**
DCL Sample Name...: **05I01099**
DCL Report Group..: **05I-0140-01**

Matrix.....: AIR
Date Sampled.....: Not Provided
Reporting Units...: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G050R00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	21-JAN-05 20:07	0.136	0.49	PPB V/V	J	1	0.5
Dichlorodifluoromethane	21-JAN-05 20:07	0.67	2.4	µg/m³		1	2.5
Chloromethane	21-JAN-05 20:07	0.370	ND	PPB V/V		1	0.5
Chloromethane	21-JAN-05 20:07	0.76	ND	µg/m³		1	1.0
Freon 114	21-JAN-05 20:07	0.0960	ND	PPB V/V		1	0.5
Freon 114	21-JAN-05 20:07	0.67	ND	µg/m³		1	3.5
Vinyl Chloride	21-JAN-05 20:07	0.375	ND	PPB V/V		1	0.5
Vinyl Chloride	21-JAN-05 20:07	0.96	ND	µg/m³		1	1.3
Bromomethane	21-JAN-05 20:07	0.316	ND	PPB V/V		1	0.5
Bromomethane	21-JAN-05 20:07	1.2	ND	µg/m³		1	1.9
Chloroethane	21-JAN-05 20:07	0.400	ND	PPB V/V		1	0.5
Chloroethane	21-JAN-05 20:07	1.1	ND	µg/m³		1	1.3
Freon 11	21-JAN-05 20:07	0.340	ND	PPB V/V		1	0.5
Freon 11	21-JAN-05 20:07	1.9	ND	µg/m³		1	2.8
cis-1,2-Dichloroethene	21-JAN-05 20:07	0.359	ND	PPB V/V		1	0.5
cis-1,2-Dichloroethene	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0
Freon 113	21-JAN-05 20:07	0.300	ND	PPB V/V		1	0.5
Freon 113	21-JAN-05 20:07	2.3	ND	µg/m³		1	3.8
Acetone	21-JAN-05 20:07	0.282	4.8	PPB V/V		1	0.5
Acetone	21-JAN-05 20:07	.67	11.	µg/m³		1	1.2
Methylene Chloride	21-JAN-05 20:07	0.380	ND	PPB V/V		1	0.5
Methylene Chloride	21-JAN-05 20:07	1.3	ND	µg/m³		1	1.7
trans-1,2-Dichloroethene	21-JAN-05 20:07	0.305	ND	PPB V/V		1	0.5
trans-1,2-Dichloroethene	21-JAN-05 20:07	1.2	ND	µg/m³		1	2.0
1,1-Dichloroethane	21-JAN-05 20:07	0.336	ND	PPB V/V		1	0.5
1,1-Dichloroethane	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0
Vinyl Acetate	21-JAN-05 20:07	0.411	ND	PPB V/V		1	0.5
Vinyl Acetate	21-JAN-05 20:07	1.4	ND	µg/m³		1	1.8
1,1-Dichloroethene	21-JAN-05 20:07	0.362	ND	PPB V/V		1	0.5
1,1-Dichloroethene	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0
2-Butanone	21-JAN-05 20:07	0.439	ND	PPB V/V		1	0.5
2-Butanone	21-JAN-05 20:07	1.3	ND	µg/m³		1	1.5
Chloroform	21-JAN-05 20:07	0.401	ND	PPB V/V		1	0.5
Chloroform	21-JAN-05 20:07	2.0	ND	µg/m³		1	2.4
1,1,1-Trichloroethane	21-JAN-05 20:07	0.337	ND	PPB V/V		1	0.5
1,1,1-Trichloroethane	21-JAN-05 20:07	1.8	ND	µg/m³		1	2.7
Carbon Tetrachloride	21-JAN-05 20:07	0.312	ND	PPB V/V		1	0.5
Carbon Tetrachloride	21-JAN-05 20:07	2.0	ND	µg/m³		1	3.1
Benzene	21-JAN-05 20:07	0.336	ND	PPB V/V		1	0.5
Benzene	21-JAN-05 20:07	1.1	ND	µg/m³		1	1.6
1,2-Dichloroethane	21-JAN-05 20:07	0.362	ND	PPB V/V		1	0.5

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S050L040

Date Printed.....: 26-JAN-05 11:54
Client Name.....: Environmental Chemical Corporation

DCL Sample Name...: **05I01099**
DCL Report Group..: **05I-0140-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
1,2-Dichloroethane	21-JAN-05 20:07	1.5	ND	µg/m³		1	2.0
Trichloroethene	21-JAN-05 20:07	0.290	ND	PPB V/V		1	0.5
Trichloroethene	21-JAN-05 20:07	1.6	ND	µg/m³		1	2.7
1,2-Dichloropropane	21-JAN-05 20:07	0.362	ND	PPB V/V		1	0.5
1,2-Dichloropropane	21-JAN-05 20:07	1.7	ND	µg/m³		1	2.3
cis-1,3-Dichloropropene	21-JAN-05 20:07	0.315	ND	PPB V/V		1	0.5
cis-1,3-Dichloropropene	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.3
Toluene	21-JAN-05 20:07	0.279	0.31	PPB V/V	J	1	0.5
Toluene	21-JAN-05 20:07	1.1	1.2	µg/m³		1	1.9
trans-1,3-Dichloropropene	21-JAN-05 20:07	0.324	ND	PPB V/V		1	0.5
trans-1,3-Dichloropropene	21-JAN-05 20:07	1.5	ND	µg/m³		1	2.3
1,1,2-Trichloroethane	21-JAN-05 20:07	0.296	ND	PPB V/V		1	0.5
1,1,2-Trichloroethane	21-JAN-05 20:07	1.6	ND	µg/m³		1	2.7
Tetrachloroethene	21-JAN-05 20:07	0.292	12.	PPB V/V		1	0.5
Tetrachloroethene	21-JAN-05 20:07	2.0	82.	µg/m³		1	3.4
2-Hexanone	21-JAN-05 20:07	0.347	ND	PPB V/V		1	0.5
2-Hexanone	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0
Dibromochloromethane	21-JAN-05 20:07	0.330	ND	PPB V/V		1	0.5
Dibromochloromethane	21-JAN-05 20:07	2.8	ND	µg/m³		1	4.2
1,2-Dibromoethane	21-JAN-05 20:07	0.313	ND	PPB V/V		1	0.5
1,2-Dibromoethane	21-JAN-05 20:07	2.4	ND	µg/m³		1	3.8
Chlorobenzene	21-JAN-05 20:07	0.293	ND	PPB V/V		1	0.5
Chlorobenzene	21-JAN-05 20:07	1.3	ND	µg/m³		1	2.3
Ethylbenzene	21-JAN-05 20:07	0.311	ND	PPB V/V		1	0.5
Ethylbenzene	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.2
m,p-Xylene	21-JAN-05 20:07	0.708	ND	PPB V/V		1	1
m,p-Xylene	21-JAN-05 20:07	3.1	ND	µg/m³		1	4.3
o-Xylene	21-JAN-05 20:07	0.361	ND	PPB V/V		1	0.5
o-Xylene	21-JAN-05 20:07	1.6	ND	µg/m³		1	2.2
Styrene	21-JAN-05 20:07	0.296	ND	PPB V/V		1	0.5
Styrene	21-JAN-05 20:07	1.3	ND	µg/m³		1	2.1
Bromoform	21-JAN-05 20:07	0.343	ND	PPB V/V		1	0.5
Bromoform	21-JAN-05 20:07	3.5	ND	µg/m³		1	5.1
1,1,2,2-Tetrachloroethane	21-JAN-05 20:07	0.329	ND	PPB V/V		1	0.5
1,1,2,2-Tetrachloroethane	21-JAN-05 20:07	2.3	ND	µg/m³		1	3.4
4-Ethyl toluene	21-JAN-05 20:07	0.365	ND	PPB V/V		1	0.5
4-Ethyl toluene	21-JAN-05 20:07	1.8	ND	µg/m³		1	2.5
1,3,5-Trimethylbenzene	21-JAN-05 20:07	0.343	ND	PPB V/V		1	0.5
1,3,5-Trimethylbenzene	21-JAN-05 20:07	1.7	ND	µg/m³		1	2.5
1,2,4-Trimethylbenzene	21-JAN-05 20:07	0.343	ND	PPB V/V		1	0.5
1,2,4-Trimethylbenzene	21-JAN-05 20:07	1.7	ND	µg/m³		1	2.5
1,3-Dichlorobenzene	21-JAN-05 20:07	0.328	ND	PPB V/V		1	0.5
1,3-Dichlorobenzene	21-JAN-05 20:07	2.0	ND	µg/m³		1	3.0
1,4-Dichlorobenzene	21-JAN-05 20:07	0.325	ND	PPB V/V		1	0.5
1,4-Dichlorobenzene	21-JAN-05 20:07	2.0	ND	µg/m³		1	3.0
1,2-Dichlorobenzene	21-JAN-05 20:07	0.331	ND	PPB V/V		1	0.5
1,2-Dichlorobenzene	21-JAN-05 20:07	2.0	ND	µg/m³		1	3.0
Methyl t-Butyl Ether	21-JAN-05 20:07	0.316	ND	PPB V/V		1	0.5
Methyl t-Butyl Ether	21-JAN-05 20:07	1.1	ND	µg/m³		1	1.8
1,3-Butadiene	21-JAN-05 20:07	0.380	ND	PPB V/V		1	0.5
1,3-Butadiene	21-JAN-05 20:07	0.84	ND	µg/m³		1	1.1
1,4-Dioxane	21-JAN-05 20:07	0.639	ND	PPB V/V		1	1.0
1,4-Dioxane	21-JAN-05 20:07	2.3	ND	µg/m³		1	3.6
Isopropyl Alcohol	21-JAN-05 20:07	0.396	ND	PPB V/V		1	0.5
Isopropyl Alcohol	21-JAN-05 20:07	0.97	ND	µg/m³		1	1.2
Cyclohexane	21-JAN-05 20:07	0.279	ND	PPB V/V		1	0.5
Cyclohexane	21-JAN-05 20:07	0.96	ND	µg/m³		1	1.7
Heptane	21-JAN-05 20:07	0.331	ND	PPB V/V		1	0.5

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S050L040

Date Printed.....: 26-JAN-05 11:54
Client Name.....: Environmental Chemical Corporation

DCL Sample Name...: **05I01099**
DCL Report Group..: **05I-0140-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Heptane	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0
Hexane	21-JAN-05 20:07	0.318	ND	PPB V/V		1	0.5
Hexane	21-JAN-05 20:07	1.1	ND	µg/m³		1	1.8
Propene	21-JAN-05 20:07	0.425	ND	PPB V/V		1	0.5
Propene	21-JAN-05 20:07	0.73	ND	µg/m³		1	0.86
Tetrahydrofuran	21-JAN-05 20:07	0.259	ND	PPB V/V		1	0.5
Tetrahydrofuran	21-JAN-05 20:07	0.76	ND	µg/m³		1	1.5
4-Methyl-2-Pentanone	21-JAN-05 20:07	0.344	ND	PPB V/V		1	0.5
4-Methyl-2-Pentanone	21-JAN-05 20:07	1.4	ND	µg/m³		1	2.0

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Carbonyl Sulfide(4.44)	21-JAN-05 20:07	9.6	PPB V/V	J	1
Ethanol(5.61)	21-JAN-05 20:07	7.1	PPB V/V	J	1

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SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 26-JAN-05 11:54

Client Name.....: Environmental Chemical Corporation
Client Ref Number....: 70536
Sampling Site.....: Stanton-LTRA
Release Number.....: 70536

Date Received.....: 19-JAN-05 00:00

Client Sample Name: **LH-0142|108736**
DCL Sample Name...: **05I01100**
DCL Report Group..: **05I-0140-01**

Matrix.....: AIR
Date Sampled.....: Not Provided
Reporting Units...: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G050R00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Dichlorodifluoromethane	21-JAN-05 22:03	0.136	0.93	PPB V/V		1	0.5
Dichlorodifluoromethane	21-JAN-05 22:03	0.67	4.6	µg/m³		1	2.5
Chloromethane	21-JAN-05 22:03	0.370	ND	PPB V/V		1	0.5
Chloromethane	21-JAN-05 22:03	0.76	ND	µg/m³		1	1.0
Freon 114	21-JAN-05 22:03	0.0960	ND	PPB V/V		1	0.5
Freon 114	21-JAN-05 22:03	0.67	ND	µg/m³		1	3.5
Vinyl Chloride	21-JAN-05 22:03	0.375	ND	PPB V/V		1	0.5
Vinyl Chloride	21-JAN-05 22:03	0.96	ND	µg/m³		1	1.3
Bromomethane	21-JAN-05 22:03	0.316	ND	PPB V/V		1	0.5
Bromomethane	21-JAN-05 22:03	1.2	ND	µg/m³		1	1.9
Chloroethane	21-JAN-05 22:03	0.400	ND	PPB V/V		1	0.5
Chloroethane	21-JAN-05 22:03	1.1	ND	µg/m³		1	1.3
Freon 11	21-JAN-05 22:03	0.340	0.84	PPB V/V		1	0.5
Freon 11	21-JAN-05 22:03	1.9	4.7	µg/m³		1	2.8
cis-1,2-Dichloroethene	21-JAN-05 22:03	0.359	50.	PPB V/V		20	0.5
cis-1,2-Dichloroethene	21-JAN-05 22:03	1.4	200	µg/m³		20	2.0
Freon 113	21-JAN-05 22:03	0.300	ND	PPB V/V		1	0.5
Freon 113	21-JAN-05 22:03	2.3	ND	µg/m³		1	3.8
Acetone	21-JAN-05 22:03	0.282	2.6	PPB V/V		1	0.5
Acetone	21-JAN-05 22:03	.67	6.2	µg/m³		1	1.2
Methylene Chloride	21-JAN-05 22:03	0.380	ND	PPB V/V		1	0.5
Methylene Chloride	21-JAN-05 22:03	1.3	ND	µg/m³		1	1.7
trans-1,2-Dichloroethene	21-JAN-05 22:03	0.305	0.64	PPB V/V		1	0.5
trans-1,2-Dichloroethene	21-JAN-05 22:03	1.2	2.5	µg/m³		1	2.0
1,1-Dichloroethane	21-JAN-05 22:03	0.336	ND	PPB V/V		1	0.5
1,1-Dichloroethane	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.0
Vinyl Acetate	21-JAN-05 22:03	0.411	ND	PPB V/V		1	0.5
Vinyl Acetate	21-JAN-05 22:03	1.4	ND	µg/m³		1	1.8
1,1-Dichloroethene	21-JAN-05 22:03	0.362	ND	PPB V/V		1	0.5
1,1-Dichloroethene	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.0
2-Butanone	21-JAN-05 22:03	0.439	1.4	PPB V/V		1	0.5
2-Butanone	21-JAN-05 22:03	1.3	4.3	µg/m³		1	1.5
Chloroform	21-JAN-05 22:03	0.401	0.63	PPB V/V		1	0.5
Chloroform	21-JAN-05 22:03	2.0	3.1	µg/m³		1	2.4
1,1,1-Trichloroethane	21-JAN-05 22:03	0.337	ND	PPB V/V		1	0.5
1,1,1-Trichloroethane	21-JAN-05 22:03	1.8	ND	µg/m³		1	2.7
Carbon Tetrachloride	21-JAN-05 22:03	0.312	ND	PPB V/V		1	0.5
Carbon Tetrachloride	21-JAN-05 22:03	2.0	ND	µg/m³		1	3.1
Benzene	21-JAN-05 22:03	0.336	ND	PPB V/V		1	0.5
Benzene	21-JAN-05 22:03	1.1	ND	µg/m³		1	1.6
1,2-Dichloroethane	21-JAN-05 22:03	0.362	ND	PPB V/V		1	0.5

Date Printed.....: 26-JAN-05 11:54
Client Name.....: Environmental Chemical Corporation

DCL Sample Name...: **05I01100**
DCL Report Group..: **05I-0140-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
1,2-Dichloroethane	21-JAN-05 22:03	1.5	ND	µg/m³		1	2.0
Trichloroethene	21-JAN-05 22:03	0.290	44.	PPB V/V		20	0.5
Trichloroethene	21-JAN-05 22:03	1.6	240	µg/m³		20	2.7
1,2-Dichloropropane	21-JAN-05 22:03	0.362	ND	PPB V/V		1	0.5
1,2-Dichloropropane	21-JAN-05 22:03	1.7	ND	µg/m³		1	2.3
cis-1,3-Dichloropropene	21-JAN-05 22:03	0.315	ND	PPB V/V		1	0.5
cis-1,3-Dichloropropene	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.3
Toluene	21-JAN-05 22:03	0.279	0.31	PPB V/V	J	1	0.5
Toluene	21-JAN-05 22:03	1.1	1.1	µg/m³		1	1.9
trans-1,3-Dichloropropene	21-JAN-05 22:03	0.324	ND	PPB V/V		1	0.5
trans-1,3-Dichloropropene	21-JAN-05 22:03	1.5	ND	µg/m³		1	2.3
1,1,2-Trichloroethane	21-JAN-05 22:03	0.296	ND	PPB V/V		1	0.5
1,1,2-Trichloroethane	21-JAN-05 22:03	1.6	ND	µg/m³		1	2.7
Tetrachloroethene	21-JAN-05 22:03	0.292	5600	PPB V/V	E	20	0.5
Tetrachloroethene	21-JAN-05 22:03	2.0	38000	µg/m³	E	20	3.4
2-Hexanone	21-JAN-05 22:03	0.347	ND	PPB V/V		1	0.5
2-Hexanone	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.0
Dibromochloromethane	21-JAN-05 22:03	0.330	ND	PPB V/V		1	0.5
Dibromochloromethane	21-JAN-05 22:03	2.8	ND	µg/m³		1	4.2
1,2-Dibromoethane	21-JAN-05 22:03	0.313	ND	PPB V/V		1	0.5
1,2-Dibromoethane	21-JAN-05 22:03	2.4	ND	µg/m³		1	3.8
Chlorobenzene	21-JAN-05 22:03	0.293	ND	PPB V/V		1	0.5
Chlorobenzene	21-JAN-05 22:03	1.3	ND	µg/m³		1	2.3
Ethylbenzene	21-JAN-05 22:03	0.311	ND	PPB V/V		1	0.5
Ethylbenzene	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.2
m,p-Xylene	21-JAN-05 22:03	0.708	ND	PPB V/V		1	1
m,p-Xylene	21-JAN-05 22:03	3.1	ND	µg/m³		1	4.3
o-Xylene	21-JAN-05 22:03	0.361	0.52	PPB V/V		1	0.5
o-Xylene	21-JAN-05 22:03	1.6	2.3	µg/m³		1	2.2
Styrene	21-JAN-05 22:03	0.296	ND	PPB V/V		1	0.5
Styrene	21-JAN-05 22:03	1.3	ND	µg/m³		1	2.1
Bromoform	21-JAN-05 22:03	0.343	ND	PPB V/V		1	0.5
Bromoform	21-JAN-05 22:03	3.5	ND	µg/m³		1	5.1
1,1,2,2-Tetrachloroethane	21-JAN-05 22:03	0.329	ND	PPB V/V		1	0.5
1,1,2,2-Tetrachloroethane	21-JAN-05 22:03	2.3	ND	µg/m³		1	3.4
4-Ethyl toluene	21-JAN-05 22:03	0.365	1.2	PPB V/V		1	0.5
4-Ethyl toluene	21-JAN-05 22:03	1.8	6.1	µg/m³		1	2.5
1,3,5-Trimethylbenzene	21-JAN-05 22:03	0.343	5.6	PPB V/V		1	0.5
1,3,5-Trimethylbenzene	21-JAN-05 22:03	1.7	28.	µg/m³		1	2.5
1,2,4-Trimethylbenzene	21-JAN-05 22:03	0.343	8.9	PPB V/V		1	0.5
1,2,4-Trimethylbenzene	21-JAN-05 22:03	1.7	44.	µg/m³		1	2.5
1,3-Dichlorobenzene	21-JAN-05 22:03	0.328	ND	PPB V/V		1	0.5
1,3-Dichlorobenzene	21-JAN-05 22:03	2.0	ND	µg/m³		1	3.0
1,4-Dichlorobenzene	21-JAN-05 22:03	0.325	ND	PPB V/V		1	0.5
1,4-Dichlorobenzene	21-JAN-05 22:03	2.0	ND	µg/m³		1	3.0
1,2-Dichlorobenzene	21-JAN-05 22:03	0.331	ND	PPB V/V		1	0.5
1,2-Dichlorobenzene	21-JAN-05 22:03	2.0	ND	µg/m³		1	3.0
Methyl t-Butyl Ether	21-JAN-05 22:03	0.316	0.49	PPB V/V	J	1	0.5
Methyl t-Butyl Ether	21-JAN-05 22:03	1.1	1.8	µg/m³		1	1.8
1,3-Butadiene	21-JAN-05 22:03	0.380	ND	PPB V/V		1	0.5
1,3-Butadiene	21-JAN-05 22:03	0.84	ND	µg/m³		1	1.1
1,4-Dioxane	21-JAN-05 22:03	0.639	ND	PPB V/V		1	1.0
1,4-Dioxane	21-JAN-05 22:03	2.3	ND	µg/m³		1	3.6
Isopropyl Alcohol	21-JAN-05 22:03	0.396	ND	PPB V/V		1	0.5
Isopropyl Alcohol	21-JAN-05 22:03	0.97	ND	µg/m³		1	1.2
Cyclohexane	21-JAN-05 22:03	0.279	ND	PPB V/V		1	0.5
Cyclohexane	21-JAN-05 22:03	0.96	ND	µg/m³		1	1.7
Heptane	21-JAN-05 22:03	0.331	ND	PPB V/V		1	0.5

Date Printed.....: 26-JAN-05 11:54
Client Name.....: Environmental Chemical Corporation

DCL Sample Name...: **05I01100**
DCL Report Group..: **05I-0140-01**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Units	Qual.	Dilution	PQL
Heptane	21-JAN-05 22:03	1.4	ND	µg/m³		1	2.0
Hexane	21-JAN-05 22:03	0.318	1.1	PPB V/V		1	0.5
Hexane	21-JAN-05 22:03	1.1	3.8	µg/m³		1	1.8
Propene	21-JAN-05 22:03	0.425	1.2	PPB V/V		1	0.5
Propene	21-JAN-05 22:03	0.73	2.1	µg/m³		1	0.86
Tetrahydrofuran	21-JAN-05 22:03	0.259	1.6	PPB V/V		1	0.5
Tetrahydrofuran	21-JAN-05 22:03	0.76	4.9	µg/m³		1	1.5
4-Methyl-2-Pentanone	21-JAN-05 22:03	0.344	0.89	PPB V/V		1	0.5
4-Methyl-2-Pentanone	21-JAN-05 22:03	1.4	3.7	µg/m³		1	2.0

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Units	Qual.	Dilution
Propane, 2,2-difluoro-(4.66)	21-JAN-05 22:03	7.0	PPB V/V	J	1
Ethanol(5.64)	21-JAN-05 22:03	3.9	PPB V/V	J	1
Cyclohexane, 1,2,3-trimethyl-(15.07)	21-JAN-05 22:03	6.0	PPB V/V	J	1
Cyclohexane, 1-ethyl-4-methyl-(15.26)	21-JAN-05 22:03	20.	PPB V/V	J	1
C3 subst. Cyclohexane(15.33)	21-JAN-05 22:03	8.8	PPB V/V	J	1
C9 Unsaturated Hydrocarbon(15.45)	21-JAN-05 22:03	6.0	PPB V/V	J	1
C9 Unsaturated Hydrocarbon(15.95)	21-JAN-05 22:03	27.	PPB V/V	J	1
Cyclohexane, propyl-(16.11)	21-JAN-05 22:03	34.	PPB V/V	J	1
Heptane, 3-ethyl-2-methyl-(16.25)	21-JAN-05 22:03	15.	PPB V/V	J	1
C10 Unsaturated Hydrocarbon(16.39)	21-JAN-05 22:03	7.1	PPB V/V	J	1
C10 Unsaturated Hydrocarbon(16.73)	21-JAN-05 22:03	20.	PPB V/V	J	1
C10 Unsaturated Hydrocarbon(16.95)	21-JAN-05 22:03	12.	PPB V/V	J	1
C10 Unsaturated Hydrocarbon(17.02)	21-JAN-05 22:03	8.3	PPB V/V	J	1
Decane(17.22)	21-JAN-05 22:03	12.	PPB V/V	J	1
Cyclohexane, 1-methyl-2-propyl(17.39)	21-JAN-05 22:03	7.2	PPB V/V	J	1
C11 Hydrocarbon(17.66)	21-JAN-05 22:03	28.	PPB V/V	J	1
C11 Hydrocarbon(17.75)	21-JAN-05 22:03	4.0	PPB V/V	J	1
C11 Unsaturated Hydrocarbon(17.98)	21-JAN-05 22:03	15.	PPB V/V	J	1
C12 Hydrocarbon(18.07)	21-JAN-05 22:03	14.	PPB V/V	J	1
Benzene, 4-ethyl-1,2-dimethyl-(18.19)	21-JAN-05 22:03	5.0	PPB V/V	J	1
C12 Hydrocarbon(18.40)	21-JAN-05 22:03	13.	PPB V/V	J	1
Naphthalene, decahydro-(18.56)	21-JAN-05 22:03	8.4	PPB V/V	J	1
C4 subst. Benzene(18.70)	21-JAN-05 22:03	3.9	PPB V/V	J	1


S050R002

Client Name.....: Environmental Chemical Corporation
Release Number.....: 70536

Matrix.....: AIR
Reporting Units.....: ppb v/v

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name...: **QC-227387-1**
Date Printed.....: 26-JAN-05 11:54

DCL Analysis Group: G050R00G
Analysis Method...: TO15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Methylene Chloride	21-JAN-05 14:01	10.0	10.3	103.	65.0/135.	
1,1-Dichloroethene	21-JAN-05 14:01	10.0	10.1	101.	65.0/135.	
Trichloroethene	21-JAN-05 14:01	10.0	10.6	106.	65.0/135.	
Toluene	21-JAN-05 14:01	10.0	10.1	101.	65.0/135.	
1,1,2,2-Tetrachloroethane	21-JAN-05 14:01	10.0	9.43	94.3	65.0/135.	


S050R003

DCL Sample Name...: **QD-227387-1**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Methylene Chloride	21-JAN-05 14:42	9.69	96.9	9.98	0.581	5.8	0.00/25.0	
1,1-Dichloroethene	21-JAN-05 14:42	8.92	89.2	9.49	1.15	12.	0.00/25.0	
Trichloroethene	21-JAN-05 14:42	10.2	102.	10.4	0.397	3.8	0.00/25.0	
Toluene	21-JAN-05 14:42	10.2	102.	10.2	0.0450	0.44	0.00/25.0	
1,1,2,2-Tetrachloroethane	21-JAN-05 14:42	9.74	97.4	9.59	0.306	3.2	0.00/25.0	

DATA CHEM LABORATORIES
A Sorenson Company

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S050R001

Client Name.....: Environmental Chemical Corporation
Release Number.....: 70536

Matrix.....: AIR
Reporting Units.....: PPB V/V

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name...: **BL-227387-1**
Date Printed.....: 26-JAN-05 11:54

DCL Analysis Group: G050R00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-0
Column Type.....: DB-1
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Dichlorodifluoromethane	21-JAN-05 16:04	ND	0.562	1.0
Chloromethane	21-JAN-05 16:04	ND	0.370	1.0
Freon 114	21-JAN-05 16:04	ND	0.599	1.0
Vinyl Chloride	21-JAN-05 16:04	ND	0.375	1.0
Bromomethane	21-JAN-05 16:04	ND	0.316	1.0
Chloroethane	21-JAN-05 16:04	ND	0.400	1.0
Freon 11	21-JAN-05 16:04	ND	0.340	1.0
cis-1,2-Dichloroethene	21-JAN-05 16:04	ND	0.359	1.0
Freon 113	21-JAN-05 16:04	ND	0.300	1.0
Acetone	21-JAN-05 16:04	ND	0.282	1.0
Methylene Chloride	21-JAN-05 16:04	ND	0.380	1.0
trans-1,2-Dichloroethene	21-JAN-05 16:04	ND	0.305	1.0
1,1-Dichloroethane	21-JAN-05 16:04	ND	0.336	1.0
Vinyl Acetate	21-JAN-05 16:04	ND	0.411	1.0
1,1-Dichloroethene	21-JAN-05 16:04	ND	0.362	1.0
2-Butanone	21-JAN-05 16:04	ND	0.439	1.0
Chloroform	21-JAN-05 16:04	ND	0.401	1.0
1,1,1-Trichloroethane	21-JAN-05 16:04	ND	0.337	1.0
Carbon Tetrachloride	21-JAN-05 16:04	ND	0.312	1.0
Benzene	21-JAN-05 16:04	ND	0.336	1.0
1,2-Dichloroethane	21-JAN-05 16:04	ND	0.362	1.0
Trichloroethene	21-JAN-05 16:04	ND	0.290	1.0
1,2-Dichloropropane	21-JAN-05 16:04	ND	0.362	1.0
cis-1,3-Dichloropropene	21-JAN-05 16:04	ND	0.315	1.0
Toluene	21-JAN-05 16:04	ND	0.279	1.0
trans-1,3-Dichloropropene	21-JAN-05 16:04	ND	0.324	1.0
1,1,2-Trichloroethane	21-JAN-05 16:04	ND	0.296	1.0
Tetrachloroethene	21-JAN-05 16:04	ND	0.292	1.0
2-Hexanone	21-JAN-05 16:04	ND	0.347	1.0
Dibromochloromethane	21-JAN-05 16:04	ND	0.330	1.0
1,2-Dibromoethane	21-JAN-05 16:04	ND	0.313	1.0
Chlorobenzene	21-JAN-05 16:04	ND	0.293	1.0
Ethylbenzene	21-JAN-05 16:04	ND	0.311	1.0
m,p-Xylene	21-JAN-05 16:04	ND	0.708	1.0
o-Xylene	21-JAN-05 16:04	ND	0.361	1.0
Styrene	21-JAN-05 16:04	ND	0.296	1.0
Bromoform	21-JAN-05 16:04	ND	0.343	1.0
1,1,2,2-Tetrachloroethane	21-JAN-05 16:04	ND	0.329	1.0
4-Ethyl toluene	21-JAN-05 16:04	ND	0.365	1.0
1,3,5-Trimethylbenzene	21-JAN-05 16:04	ND	0.343	1.0
1,2,4-Trimethylbenzene	21-JAN-05 16:04	ND	0.343	1.0
1,3-Dichlorobenzene	21-JAN-05 16:04	ND	0.328	1.0
1,4-Dichlorobenzene	21-JAN-05 16:04	ND	0.325	1.0
1,2-Dichlorobenzene	21-JAN-05 16:04	ND	0.331	1.0
Methyl t-Butyl Ether	21-JAN-05 16:04	ND	0.316	1.0
4-Methyl-2-Pentanone	21-JAN-05 16:04	ND	0.344	1.0

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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DATA CHEM LABORATORIES
A Sorenson Company

FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

G050R00G

Date Printed.....: 26-JAN-05 11:54

Client Name.....: Environmental Chemical Corporation
Release Number.....: 70536

Matrix.....: AIR
Reporting Units.....: ppb v/v

DCL Analysis Group: G050R00G
Analysis Method...: TO15

DCL Prep Group....: Not Applicable
Preparation Method: Not Applicable

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	4-Bromofluorobenzene											
QC Limits	65.0/135.											
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
05I01099	18.4	20.0	92.2									
05I01100	23.2	20.0	116.									
BL-227387-1	16.6	20.0	82.9									
QC-227387-1	19.6	20.0	98.1									
QD-227387-1	19.1	20.0	95.6									

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FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. ☒ REGULAR Status OST · OKD · 01

☐ RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date _____ Purchase Order No. _____

3. Company Name Earth Tech, Inc. 4ECC
Address 1293 Broad Street, Suite 200
Bloomfield, NJ 07003
Person to Contact Dave Miller
Telephone (973) 338-7011
Fax Telephone ( )
E-mail Address dmiller@ECC.net
Billing Address (if different from above)
Environmental Chemical Corp.
1293 Broad Street, Suite 200
Bloomfield, NJ

4. Quote No. _____
DCL Project Manager _____

5. Sample Collection
Sampling Site Stanton - LTRA
Industrial Process _____
Date of Collection _____
Time Collected _____
Date of Shipment 11/18/05
Chain of Custody No. _____

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
05-01077	LH-0141	Air	6L Summa	EPA-TO15 10887LC	ug/m3
05-01078	LH-0142	Air	6L Summa	EPA-TO15 10873LC	ug/m3

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. ug/sample 2. mg/m^3 3. ppm 4. % 5. ____ (other) Please indicate one or more units in the column entitled Units**

Comments Report in units ug/m^3

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by	John Heuisman	Date/Time	11/18/05 17:00
Received by	FedEx	Date/Time	11/18/05 17:00
Relinquished by		Date/Time	
Received by		Date/Time	11/19/05 11:00
Relinquished by		Date/Time	
Received by		Date/Time	

960 West LeVoy Drive / Salt Lake City, UT 84123
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Appendix J

Action List Dated January 2005

EARTH TECH

A Tyco Infrastructure Services Company

January 2005 ACTION LIST SUMMARY

PROJECT:	Stanton Cleaners	JOB NUMBER:	70536
LOCATION:	Great Neck, NY	DATE:	January-05
CLIENT:	USACE / USEPA		

COMPLETED ITEMS	DATE PERFORMED
Item #1 - Installed Sub-Slab points on garage and dry cleaning buidling.	1/11/2005
Item #2 - Replaced interior and exterior light bulbs	1/11/2005

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.
Item B - New Pressure guage nedded for air stripper.