ANSON
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December 11, 2000

Mr. Chris Alonge
New York State Department of Environmental Conservation
DER BEER RSV
50 Wolf Road
Albany, NY 12233-7010

Re: Imperial Cleaners
218 Lakeville Road
Lake Success, NY
Voluntary Cleanup Program Site# V-00244-1

Dear Mr. Alonge:

Enclosed are four copies of the December 11, 2000 work plan for Imperial Cleaners Interim Remedial Measure, 218 Lakeville Road, Lake Success, New York. This work plan has been revised based on the comments in your letter dated November 20, 2000.

1. Extraction wells RW3, RW8 and RW10 will be screened from 10 to 25 feet below grade.
2. The trenches are illustrated on Figure 12.
3. All drill cuttings were placed in drums.
4. A sampling port has been placed after the carbon on Figure 18.
5. The SVE system will be monitored as frequently as necessary to maintain smooth, consistent operation.
6. The final design specifics of the air sparge system and final SVE system will be included in final remediation work plan. This work plan will be submitted to the Department following completion of the investigation activities.
7. The sparge and extraction wells are not expected to be installed in the same boreholes.
8. The licensed electrician was consulted regarding the installation of surge protectors.
9. As I said in our October 5th meeting, Sensidyne tubes will be used in conjunction with the PID for startup and periodic monitoring of the SVE system.

10. Perc badges and activated carbon gas sampling tubes will be used to monitor the indoor air quality in the impacted businesses and residences.

11. A detailed O&M manual will be prepared and submitted with the as-built plans for SVES#1. The mass removal rates for contaminants will be calculated on a monthly basis.

If you have any questions, please call me.

Very truly yours,

Dean Anson II

cc: John S. Kushwara, USEPA
Krista Anders, NYSDOH BEEI
William Gilday, NYSDOH BEEI
Kevin Carpenter, P.E., NYSDEC DER BERA RSB
Walter Parish, P.E., NYSDEC DER Region 1
Michael Lesser, Esq. NYSDEE Region 1
Fred Werfel, Spiegel Associates
Michael Alarcon, Nassau County Department of Health

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Imperial Cleaners
218 Lakeville Road
Lake Success, New York

New York State Department of Environmental Conservation
Voluntary Cleanup Program
Site #V-00244-1

Remediation Work Plan
On-Site Interim Remedial Measure

December 11, 2000

"Your Environmental Partner"

Imperial Cleaners
218 Lakeville Road
Lake Success, New York
NYSDEC Voluntary Cleanup Program
Site #V-00244-1
Remediation Work Plan

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Imperial Cleaners
218 Lakeville Road
Lake Success, New York
NYSDEC Voluntary Cleanup Program
Site #V-00244-1
Remediation Work Plan

1.0 Executive Summary

Anson Environmental Ltd. (AEL) has delineated both the vertical and horizontal extent of on-site soil and perched water contamination at the Imperial Cleaners site located at 218 Lakeville Road, Lake Success, New York, herein identified as the subject property.

The history of the site is summarized in the table below.

Owner	Operator
1924 Herbert Gregory – land owner	Vacant land
1927 Brock Family – land owner	Vacant land
1952 Building constructed	Vacant land
	1968-1988 Mike's Cleaners
12/14/82 Helen Brock sold property to Richard Grayson	Mike's Cleaners
12/15/82 Grayson transferred to Spiegel and Spiegel	Mike's Cleaners
1/1/83 Spiegel and Spiegel transferred to Jesco Co.	Mike's Cleaners
	5/88 to present Silk Care a/k/a Imperial Cleaners
11/9/95 to present Jesco Co. transferred to 218 Lakeville Road Associates L.P.	10/99 Dry cleaning operations cease operations and site is used as a 'drop shop' only.

Anson Environmental Ltd. (AEL) submitted the FRI report to the USEPA, NYSDEC and NCDH in June 1998. The FRI report summarized the sampling event and fieldwork associated with the FRI work plan, dated October 1997. This work was being performed with oversight by the USEPA as part of an Underground Injection Control Class V Injection Well Closure.

Since October 1997, investigative and remedial work has been performed on-site in a stepwise manner. As source areas of soil contamination with tetrachloroethene (Perc) have been identified (floor drains #1 and #2, drywell #1 and leaching pool #2), the soils contaminated with volatile organic compounds have been removed to the fullest extent possible using a vactor truck, endpoint samples collected and waste disposed of in licensed landfills. A separate report will be prepared to describe the extent of the soil

removal, disposal method and endpoint sampling results. Waste manifests will be included in this report.

On-site investigations have resulted in identification of vertical and horizontal extent of soil and perched water volatile organic compound contamination. Based on the evaluation of alternative remedial techniques, pilot tests have been performed for soil vapor extraction and air sparging systems. These techniques were selected to remediate the on-site and off-site soils and perched water volatile organic contamination, respectively.

Leaching Pool #2 (LP#2) was the primary sanitary waste pool for Imperial Cleaners and the adjacent store, Great Neck Pet Salon. LP#1 was the overflow sanitary waste pool for LP #2, but was dry every time it was checked. Therefore, LP#2 did not overflow into this pool. To effectively remediate LP#2 using soil vapor extraction, it must be drained and the sanitary waste routed to LP #1, thereby bypassing LP #2 and taking that leaching pool out of service. The re-piping and disconnection of LP#2 was performed in June of 2000 prior to the cleanout of LP#2.

Drywell #1 (DW#1) was the primary drainage point for rear parking lot storm water run-off. This drywell was constructed of concrete blocks and drained poorly. Subsequently, drywell #2 was constructed to improve drainage. DW#1 was excavated and a catch basin installed to collect the surface water runoff and direct this water into drywell #2 via an underground 6-inch pipe.

Following the cleanout of LP#2 and DW#1, both pools were backfilled to the ground surface with clean sand.

The on-site remediation system designs are included in this work plan. The off-site extent of volatile organic compound contamination has not been completely delineated. The findings of the initial investigation south of DW#1 resulted in plans to investigate the residential properties to the west of DW#1 and then to design an off-site remediation system for the soil and perched water. Therefore, additional field sampling is described herein to identify soil and perched water contamination on adjacent properties to the south, southeast, southwest and west of DW#1.

The initial off-site soil gas survey has determined that contamination has extended off-site. Although the extent of this contamination has not been determined, two extraction well and sparge well clusters are identified to remediate the contamination in the vicinity of the basement at #2 University Place.

Additional off-site soil and perched water sampling is described in Section 5.6 of this work plan. The findings of this investigation may result in an expansion of the off-site remediation system.

This Interim Remedial Measure work plan is to be performed under the New York State's Voluntary Cleanup Program. The plan presents the remedial action objectives, identifies general response actions, and screens potentially applicable technology types and process options to remediate soil and perched water on and off the site.

It is recommended that a soil vapor extraction system (SVES) be installed to remediate the residual contamination in the soils and air sparging (AS) to remediate the perched water contamination. These on-site systems will be expanded to address off-site soil and/or perched water contamination once the vertical and horizontal extent of off-site contamination has been delineated.

As shown on Figure 1, five SVES extraction wells have been installed during the investigation of the soil and perched water on-site. The screened interval (depth below grade) is identified below. On Figure 1, the extraction wells in the two floor drains are designated as FD1 and FD2.

Well Location	**Screened Interval (feet below grade)**
Floor Drain #1 (FD1)	1.5 to 6 feet
Floor Drain #2 (FD2)	3 to 7 feet
B1	10 to 25 feet
B2	10 to 25 feet
B3	10 to 25 feet

FD1, FD2 and B1 will be used as extraction wells for the soil vapor extraction system.

In addition, five perched water monitoring wells were installed to a depth of approximately 45 feet below grade to collect samples of the perched water on-site.

A pilot test was performed on-site to determine the radius of influence of the SVES on-site and to further design the remediation system for the site. That radius of influence was determined to be 35 feet. To effectively remediate the soils on-site, approximately ten extraction wells will be used including one through the approximate center of DW#1 and one through the approximate center of LP#2.

A pilot test was conducted using an air sparging system to determine the 30 feet radius of influence of the system and was used to design the on-site system and locate the air sparging wells. This test also located the soil vapor extraction wells that will work in concert with the air sparging system.

During the remediation process, perched water quality will be monitored quarterly to determine the effectiveness of the SVE and AS systems on the perched water. A groundwater monitoring well will be installed into the Upper Glacial Aquifer. This well will be approximately 155 feet deep and will be sampled and the water analyzed via EPA

method 8260 to determine if volatile organic contamination in the perched water has impacted the Upper Glacial Aquifer.

In addition, a private well survey will be performed identifying potable water supply wells within a 0.5 mile radius of 218 Lakeville Road. The initial findings of this survey are identified in Section 2.7 of this work plan. Attempts are being made to gather water data for these wells and have only identified two private wells within 0.6 miles of the site. Information has not been received from the Village of Lake Success, Town of North Hempstead, Nassau County Department of Public Works and Nassau County Department of Health.

To further define the extent of contamination off-site to the south and west of the site, additional soil sampling will be performed off-site to the south and west of the Imperial Cleaners site. This sampling will be performed in a stepwise fashion with the first samples collected along the ten tracks illustrated on Figure 16. Borings will be installed at ten to twenty feet intervals from each other. Soil samples will be collected at approximately 15 feet, 20 feet and 25 feet below grade and will be screened using a Photoionization Detector (Photovac model 2020 meter) (PID) for total volatile organic compounds(VOCs). Soil samples with elevated concentrations of VOCs will be also be screened using Sensidyne tubes. If the sample exceeds the limits of the tubes with a detection limits of 0.2 to 5.0 parts per million and then tubes with a 10.0 to 300.0 parts per million will be used to screen the sample. Discrete soil samples with elevated concentrations of tetrachloroethene will be submitted for laboratory analysis via EPA method 8260. These data will be used to define the vertical extent of contamination in off-site soils.

Perched water samples will be collected in all these boring locations along the ten tracks. In addition, perched water samples will be collected from the four on-site and one off-site monitoring wells and six piezometers installed on-site. Laboratory analysis of these water samples will be via EPA method 8260.

Soil and perched water samples will be analyzed by a CLP laboratory whose data will be composed of a NYSDEC ASP Category B deliverable packages.

Following receipt of laboratory data for discrete soil samples and perched water samples, the design of the off-site soil and perched water remediation systems will be completed.

The air quality in the four stores in the 218 Lakeville Road shopping center will be sampled using "perc badges" to determine if excavation activities adversely affect the indoor air.

Perc badges will be installed inside each of the stores to sample the quality of the indoor air prior to commencing the operation of the air sparging/soil vapor extraction system (AS/SVES). After the start of the AS/SVES, quarterly rounds of indoor air sampling will

be conducted using perc badges to determine if the operation of the system is impacting the indoor air quality in the stores.

In addition, information is being assembled regarding the possible interconnection of the floor drains, plumbing and heating ventilating and air conditioning duct/vents between stores. No such interconnection has been identified to date, however, building engineering drawings will be studied to evaluate possible contaminant migration pathways.

A thorough on-site and off-site exposure assessment will be performed. This information will be used to design the on-site and off-site remediation systems.

The NYS Department of Health Community Air Monitoring Plan will be used during non-intrusive and ground-intrusive activities. Airborne VOCs will be monitored using a PID and airborne particulates will be measured using a MIE Airborne Particulate Meter Model PDR 1000AN.

This work plan describes how the remediation equipment will be installed and monitored to determine how effectively the remediation system is cleaning the soils and perched water. The quality assurance/quality control plan is included to ensure that work is performed to USEPA and NYSDEC standards and protocols.

The health and safety plan has been developed to ensure the use of safe work practices on-site and protection of surrounding adjacent properties off-site and community during the remediation of the site.

2.0 Previous Field Investigations

The FRI field investigations included the installation of five (5) perched water monitoring wells, fourteen (14) soil borings and eight (8) on-site soil gas borings. The field work associated with soil and perched water sampling started on March 30, 1998 and was completed on April 16, 1998. Further fieldwork was conducted in May of 1998. This work included a property survey and a pilot testing for the design of a soil vapor extraction system.

To date, Nassau County Department of Health (NCDH) provided regulatory oversight and split a number of the soil and perched water samples collected during the field investigations.

During June and July of 2000, a pilot test was performed for the air sparging system and remediation of DW #1 and LP #2 was performed using a vactor truck. A soil gas survey was also initiated off-site.

2.1 Soil Investigation - 1998

The 1998 on-site soil investigation included the installation of fourteen (14) soil borings and eight (8) soil gas borings. The soil borings are designated SS#1 through SS#14. Four (4) of these borings were installed through the centers of DW #1 and #2 along with Leaching Pools #1 and #2. The remaining ten (10) soil borings were conducted in areas surrounding the drywell and leaching pool structures (Figure 2).

At each of the soil boring locations (SS#1 through SS#14), soil samples were collected at discrete two (2) foot intervals from the surface grade to a depth of forty (40) feet below grade using Geoprobe equipment. Each soil sample was screened in the field by recording headspace readings measured with a photo-ionization detector – PID (Photovac model 2020). Based on the highest headspace reading from 0 to 20 feet and 20 to 40 feet below grade, two (2) soil samples from each soil boring were submitted to Environmental Testing Laboratories for analysis using EPA method 8260.

The boring log information for each soil boring is presented in Tables 1 through 14. Each table includes the sample number, depth below grade from which the sample was retrieved, the samples that were submitted for laboratory analysis and a description of the soil sample. The analytical results of the soil samples submitted for laboratory analysis are presented in Tables 1 through 14.

Based on laboratory analysis of the soil samples, volatile organic compounds were detected above the New York State Department of Environmental Conservation's (NYSDEC) TAGM guidelines (Recommended Soil Cleanup Objectives) at soil borings SS#4, SS#6, SS#7 and SS#10. These borings are located within DW#1, LP#2 and

surrounding areas approximately 10-feet from the centers of these structures, (see Figure 1).

The second part of the soils investigation included the installation of eight (8) soil gas borings designated SG#1 through SG#8, (Figure 1). The purpose of the soil gas sampling is to further delineate the extent of soil contamination. At each soil gas boring location, vapor samples were collected at 20-feet, 25-feet and 30-feet below grade using Geoprobe equipment. A vacuum pump was used to draw soil vapor through dedicated polyethylene tubing and a photo-ionization detector (PID) measured the vapor readings. The PID readings obtained from each soil gas sampling location are presented in Table 15.

Based on the soil gas sampling, elevated PID readings were recorded at SG #4, SG #5 and SG #6 locations. These soil gas borings are located in the parking lot area behind the subject building and rear entrance of Imperial Cleaners.

2.2 Site-Specific Geology

During the installation of soil borings, monitoring wells and previous borings, the site-specific geological conditions have been established to a depth of 54-feet below surface grade. Refer to the following Table 2 for the geologic cross-section of the subject property. The soil consists of mainly sand and gravel with an approximately one foot thick clay layer located at approximately 14 feet below grade. Perched water is located approximately 30 feet below ground surface and another more significant clay layer is located approximately 48 feet below ground surface.

According to the United States Department of the Interior Geological Survey (USGS) for the Sea Cliff quadrangle, the elevation above sea level for the subject property is approximately 170 feet. According to the USGS water table contour map dated March-April 1984, the elevation above sea level for the Upper Glacial Aquifer water table beneath the subject property is approximately 25 feet. Therefore, the water table of the Upper Glacial Aquifer is approximately 145 feet below grade at the subject property. The direction of water flow is towards the northwest.

2.3 Perched Water Investigation - 1998

The investigation of on-site perched water included the installation and sampling of five (5) monitoring wells and four (4) Geoprobe borings, (Figure 1). The monitoring wells were installed using hollow-stem augers and are constructed of 4-inch PVC (sch.40) with 10-feet of screen (0.010-inch slot size). The screened interval of the wells extends from approximately 40-feet to 50-feet below grade. The wells were installed according to the NYSDEC's high-specification monitoring well protocol, in which the annulus around the well is filled with grout. All drill cuttings (approximately 12 yards) were stockpiled on-site until they were disposed of off-site.

Each well was developed using a submersible centrifugal pump to withdraw approximately 10 well volumes of water. Following well development and prior to sampling the wells, each well was purged 3 to 5 well volumes using a Grundfos Redi-Flo2 variable performance pump. The development water and purge water was disposed of on-site into DW#1.

The perched water samples collected from the monitoring wells were submitted to Environmental Testing Laboratories for analysis using EPA method 624. Refer to Table 16 for the analytical results of the perched water samples submitted by AEL. Field and trip blanks accompanied the perched water samples and were submitted for laboratory analysis as a part of quality assurance and control.

The perched water samples collected from the monitoring wells were split with the NCDH. Refer to Table 17 for the analytical results of the perched water samples submitted by the NCDH.

Based on the laboratory analysis of the perched water samples collected from monitoring wells, volatile organic contamination was identified at monitoring wells #1, #3, #4 and #5.

In addition to monitoring well sampling, AEL collected perched water samples from four (4) Geoprobe borings designated GP-1 through GP-4, (Figure 1). The purpose of this perched water sampling was to obtain a vertical profile of perched water quality. At each boring location, three (3) perched water samples were collected at discrete depth intervals and submitted for laboratory analysis using EPA method 624. Refer to Table 16 for the analytical results and sample depths of the Geoprobe perched water sampling.

Based on the analytical results of the perched water samples collected from the Geoprobe borings, the majority of volatile organic contamination was identified at the shallow sample interval of 30-32 feet and 32-36 feet depth below grade.

The direction of perched water flow is negligible. AEL collected depth to water readings from each monitoring well and had the elevation of each monitoring well surveyed by a New York State licensed surveyor. Based on these measurements, the direction of perched water flow is toward the northwest (Figure 3). During the installation of borings 1, 2, and 3 in June 1996, the depth of the clay layer was measured at approximately 50 to 54-feet depth below grade and sloping downwards toward the west. The sloping of the clay layer indicates a flow direction, although the concentrations of contaminants indicate very little perched water movement.

Based on the analytical results of perched water sampling and the gradient of perched water, MW-2 located down-gradient is clean in relationship to up-gradient sources.

2.4 Extent of On-Site Contamination

Figures 4 and 5 illustrate the vertical and horizontal extent of on-site soil contamination identified during soil sampling. The extent of on-site soil contamination is illustrated in Figure 6.

To avoid any potential contamination below the natural clay containment, the clay aquaclude was not punctured during the perched water investigation.

2.5 Remedial Activities

To remediate the soils and perched water on-site, the soils in the vicinity of DW#1 and LP#2 were removed in June 2000 using a vacuum equipped truck. A soil vapor extraction system (SVES) and an air sparging system (AS) will be installed to accomplish *in situ* remediation of residual volatile organic contamination in the soils and perched water, respectively.

On May 26, 1998, AEL conducted a soil vapor extraction pilot test using a 2-horsepower electric blower connected to extraction wells B1 and B2. The screened interval of B1 and B2 is between 10 to 25 feet below grade. The following measurements were recorded from the exhaust stack during the operation of B2:

Extraction Well Location	PID Reading (ppm)	Vacuum (inches of water)	Velocity (feet per second)	Cubic Feet Per Minute (CFM)
B2	1,334	10	3,000	65

During the pilot test at B1, vacuum readings were recorded using a digital manometer from surrounding wells B2 and floor drain #1(FD#1) (Figure 1). The vacuum reading at B2 measured 0.22 inches of water and the vacuum reading at FD#1 measured 0.20 inches of water. Therefore, an approximately thirty-five (35) foot radius of influence was calculated from extraction well B1. Based on the volatility of the constituents and the results of the pilot test, soil vapor extraction technology is ideally suited for the vadose zone at the subject property.

Currently, there are five (5) soil vapor extraction wells constructed of 4-inch PVC with a .020-inch slot size at the subject property. The following table summarizes the location and screened interval of these extraction wells:

Extraction Well Location	Screened Interval (DBG in Feet)
B1	10 to 25
B2	10 to 25
B3	15 to 30
Floor Drain #1	1.5 to 6
Floor Drain #2	3 to 7

To effectively remediate the soils on-site, approximately seven (7) additional extraction wells will be installed. An extraction well will be installed through the approximate center of DW#1 and through the approximate center of LP#2. The screened portion of these two extraction wells will be determined in the field and will be based on the depth of contamination in these two areas of the site. This contamination will be identified in the field using the PID headspace readings.

LP#2 was the primary sanitary waste pool for Imperial Cleaners and the adjacent store occupied by Great Neck Pet Salon. LP#1 was the overflow sanitary waste pool for LP #2. To effectively remediate LP#2 using soil vapor extraction, it was drained and new piping installed to bypass LP#2 and route sanitary waste to LP#1. LP #2 was filled with clean sand and taken out of service until the remediation is completed.

DW#1 was the primary drainage point for rear parking lot run-off. This drywell was constructed of concrete blocks and drained poorly as it frequently had water in it. Therefore, at a later date, drywell #2 was constructed to improve drainage. DW#1 was cleaned out and backfilled with clean sand. Currently, drywell #1 is operating as a catch basin that directs site runoff into drywell #2 via an underground pipe.

Following cleanout of DW#1 and LP#2, endpoint soil samples were collected and submitted for laboratory analysis via EPA method 8260 ASP Category B deliverable packages). These samples were collected to identify the quality of the remaining soils.

During the remediation of DW#1 and LP#2, real-time air monitoring was conducted for volatile organic compounds and particulates using field meters. These readings were collected at the perimeter of the work area. This community air monitoring plan was included:

1. Volatile organic compounds were monitored on a continuous basis downwind of the areas being excavated. If the total volatile organic compound concentrations exceed five parts per million above background levels, then work would have been halted and monitoring continued following the vapor emission response plan contained in the appendix of this work plan.

2. Particulates were monitored continuously upwind, downwind and within the work area. If the downwind particulate level was 150 microgram per cubic meter greater than the upwind level, then dust suppression techniques were to be employed.

3. All readings collected as part of the volatile organic compound monitoring and particulate monitoring were provided to the DEC and DOH.

4. Perchloroethylene badges were placed inside the three of the four businesses operating on-site prior to beginning the excavation process and remained there

until the excavation was completed. The badges were then be removed and submitted for analysis to determine if the indoor air quality of these businesses had been impacted. The excavation process was scheduled on a Sunday when three of the businesses were closed. The only business opened for a portion of Sunday was the delicatessen.

The details of this real time sampling will be included in a separate remediation report that will be submitted to the NYSDEC.

2.6 Pilot Test of Air Sparging – July 2000

A pilot test of the AS was conducted by installing six piezometers into the perched water and connecting an electric-powered compressor to piezometer #2. The six piezometers were installed in a relatively straight line approximately ten feet apart. Each is constructed of one-inch diameter PVC with gravel packing of #00 Morie sand. At the surface, they are sealed with concrete and placed in curb boxes that are flush-mounted.

Piezometer	depth to water in feet	depth to bottom in feet
1	30.65	38.60
2	31.18	43.50
3	31.66	43.50
4	32.50	42.95
5	32.25	43.75
6	32.92	42.05

Each of the six piezometers has ten feet of screen except #5 and #6 that have fifteen feet of screen.

A 5.5 horsepower compressor was connected to piezometer #2, then 120 psi of pressure was applied. A manometer was used to measure positive pressure changes (in inches of water) in the following piezometers. This test was conducted twice approximately thirty minutes apart.

Piezometer	Pressure Reading #1	Pressure Reading #2
1	0.32 inches	no reading
3	39.0 inches	5.53 inches
4	0.58 inches	0.41 inches
5	0.02 inches	0.05 inches
6	0.04 inches	0.02 inches

The extent of the radius of influence was established to be wherever the positive pressure was greater or equal to 0.01 inches of water. Using this pressure change, the radius of influence is approximately 30 feet.

Figure 8 illustrates the approximate location of the six (6) sparge wells needed to remediate the 40 micrograms per liter concentration of tetrachloroethene in the perched water. The associated soil vapor extraction wells are also identified on Figure 9.

2.7 Private Well Survey

The purpose of this survey is to determine if private wells within 0.5 miles of the 218 Lakeville Road are used for potable water or any other uses.

A private well survey was commenced by screening a database of wells in Nassau County that are within 0.5 miles of the site. The survey has identified two wells within 0.6 miles east of 218 Lakeville Road (see below). In addition, freedom of information requests have been submitted to Village of Lake Success, Town of North Hempstead, Nassau County Department of Health and Nassau County Department of Public Works to identify wells used for potable or any other purposes.

Well #	Water District	Well Depth in Feet	Screen Depth in Feet	Distance from 218 Lakeville Road
N-09687	Fresh Meadows Country Club	243	203	0.6 miles
N-02169	Fresh Meadows Country Club	239	221	0.6 miles

Once wells have been identified within 0.5 miles of 218 Lakeville Road, information will be sought regarding groundwater samples collected from these wells and their associated laboratory analytical data. If no data exist, arrangements will be made to collect water samples. Well locations will be plotted on a groundwater contour map to determine if Imperial Cleaners has had impacts on the Upper Glacial Aquifer.

2.8 Off-Site Soil Gas Survey

On June 21, 2000, Anson Environmental Ltd. (AEL) visited the subject site to perform limited soil gas survey. A total of eight soil gas samples were collected from the same number of borings. In addition, a field blank sample of ambient air was also collected. The nine soil gas samples were collected in individual Tedlar air bags and subsequently delivered to Environmental Testing Laboratories, Farmingdale, New York, where they were analyzed for concentrations of volatile organic compounds (VOCs) using EPA Method 8260. This report describes the technique used to collect the soil gas samples and summarizes the results of the laboratory analyses of the samples.

2.8.1 Soil Gas Sampling Technique

Using a Geoprobe unit mounted on an all-terrain-vehicle (ATV), soil gas samples were collected from eight borings locations on or adjacent to 218 Lakeville Road. At each

location, the Geoprobe unit was positioned over the boring point and a clean drive point adapter with a new expendable point was driven to the desired depth. The drive point adapters and stainless steel tubing connectors were cleaned with Alconox and double rinsed between each use.

After the drive point reached the desired depth below grade (DBG), the probe rod was retracted approximately 6-inches to create a void that allowed the migration of the soil gas sample into the bottom of the drive point adaptor.

Next, a clean unused piece of one-quarter inch polyethylene tubing was attached to the stainless adaptor. The tubing was then inserted into the probe rod and extended to the bottom. Using a counter-clockwise circular motion, the tubing was threaded to the drive point adaptor and tightened to compress the "O" ring seal.

After connecting the polyethylene tubing to the "down-hole" drive point adaptor, the tubing was purged by drawing a measured volume of soil gas/vapor through the tubing using a vacuum/volume system mounted on the ATV. The tubing connected to the drive point adaptor was then disconnected from the vacuum system and attached directly to a Tedlar air bag. The air bag was then opened and placed in a vacuum-sealed container. The container was then evacuated by the vacuum system, drawing soil gas from the void space below the adaptor and into the air bag. The container was then opened and the air bag was closed and prepared for delivery to the laboratory for analysis.

2.8.2 Soil Gas Sampling Locations

Six soil gas samples were collected on the property adjacent and south of Drywell No. 1 (DW#1) located at the southwest corner of 218 Lakeville Road (Figure 1). The first gas sample designated SGJT-1 was collected approximately 20-feet south of DW#1 and 24-feet depth below grade (DBG). The 24-feet DBG was selected to encounter the clay formation that reportedly exists 14 –feet DBG at the rear of 218 Lakeville Road. The second soil gas sample designated SGJT-2 was collected approximately 30-feet south of DW#1 and also at 24-feet depth DBG.

Since the clay formation was not encountered, the NYSDEC observer agreed with AEL to collect all remaining samples 15-feet DBG.

The third, fourth, fifth and sixth soil gas samples were collected at approximately 15-feet DBG and at 40, 50, 60 and 70-feet, respectively, from DW#1. The aforementioned soil gas samples are designated SGJT-3, SGJT-4, SGJT-5 and SGJT-6, respectively.

A seventh soil gas sample designated SGJT-7 was collected from a boring located approximately 51-feet east of DW#1. The soil gas sample was also collected at 15-feet DBG.

The eighth soil gas sample designated SGJT-8 was collected from a boring located approximately 40-feet north of DW#1. Again, the soil gas sample was collected at 15-feet DBG.

2.8.3 Laboratory Analytical Results

As previously stated, the collected soil gas samples were delivered to a New York State certified laboratory where they were analyzed for concentrations of VOCs using EPA Method 8260. The table below summarizes the laboratory analytical reports for the collected soil gas samples. The table lists the concentrations of VOCs that were detected above the laboratory method detection limit (MDL). The complete laboratory analytical report for each collected sample is in Appendix 3. The most significant VOCs detected by the laboratory above their MDL are tetrachloroethene and its breakdown products.

Sample #	Tetrachloroethene In micrograms per cubic meter	Trichloroethene In micrograms per cubic meter	c-1,1-Dichloroethene In micrograms per cubic meter
SGJT-1	1,440,000	61,000	329,000
SGJT-2	1,280,000	30,200	131,000
SGJT-3	397,000	13,500	41,600
SGJT-4	135,000	3,970	14,700
SGJT-5	49,300	1,150	2,550
SGJT-6	7,780	170	284
SGJT-7	535,000	8,470	24,100
SGJT-8	29,800	3,560	6,460
Field Blank	309	ND	ND

ND = not detected by laboratory

2.8.4 Data Usability Summary Report

This limited soil gas survey was performed to determine if the soil contamination plume extended beyond the property occupied by Imperial Cleaners. The results of this soil gas survey demonstrate that the plume does indeed extend off-site in the south and southeast direction. Based on the laboratory analysis for concentrations of volatile organic compounds (VOCs) using EPA Method 8260 a more extensive soil investigation is necessary.

The data collected during the limited soil gas survey does not meet NYSDEC guidelines for a Data Usability Summary Report (DUSR) because the samples were not analyzed in accordance with the requirements for ASP Category B or USEPA CLP deliverables. The report containing the results of the next soil gas and soil survey will include a DUSR.

The initial samples were collected during the cleanout of DW#1 and LP#2 on June 5, 2000. The samples were collected using "perc badges" that were hung near the western wall of each business in the 218 Lakeville Road shopping center. The badges were exposed from June 2 to June 5th in the Imperial Cleaners and delicatessen. The badge installed at Great Neck Pet Salon was exposed for an additional day because the business was closed on Monday June 5th because the installed badge could not be retrieved as the business was closed.

These samples identified tetrachloroethene in the air of Great Neck Pet Salon (0.10 parts per million (ppm)) and the delicatessen (0.10 ppm). The concentrations of tetrachloroethene exceeded the New York State limit for adjacent space which is 0.015 ppm.. The concentration in Imperial Cleaners (0.29 ppm) was higher than in the other two businesses because dry cleaned clothing is stored there until the clothing's owner claims it.

On July 11, 2000, NYS Department of Health installed personal exposure badges in the basements at 218 Lakeville Road and the two residential properties to the west of the subject site as well as other adjacent businesses. The laboratory analysis of the exposure badges by the state revealed high concentrations of tetrachloroethene. The actual laboratory data will be incorporated into a future progress report.

AEL also installed duplicate sampling badges at the following locations in the 218 Lakeville Road shopping center:

Sample #	Location	Concentration in ppm
30550	Imperial Cleaners Basement Floor Drain	2.0
30558	Imperial Cleaners Basement	0.47
30559	Inside Imperial Cleaners store – first floor	0.54
30552	Delicatessen basement north	0.22
30560	Delicatessen kitchen	<0.1
30561	Delicatessen basement south	0.16

The New York State standard for tetrachloroethene is 100 micrograms per cubic meter (0.15 ppm).

New York State Department of Health Bureau of Environmental Exposure Investigation has performed indoor air sampling in the 218 Lakeville Road shopping center as well as in adjacent businesses and residences. The findings of this sampling will be included in the IRM report.

3.0 Feasibility Study

Anson Environmental Ltd. (AEL) submitted the Focused Remedial Investigation (FRI) report to the USEPA, NYSDEC and NCDH in November 1998. The FRI report summarized the sampling event and fieldwork associated with the FRI work plan, dated October 1997. The actual fieldwork and sampling event was conducted between the months of March and April of 1998.

Based on the results of the FRI, the extent of on-site soil and perched water contamination has been delineated. The following remedial work plan outlines the remedial technologies potentially applicable for reducing contaminants identified in the soil and monitoring the quality of the perched water at the site. The remedial work plan outlines selected remedial technologies and presents the remedial technologies most suitable for remediating the contaminants on-site.

To remediate the residual on-site soil and water contamination, it is recommended that a soil vapor extraction system (SVES) and the air sparging system (AS) be installed and operated to remediate the perched water. The analytical results for the samples collected during quarterly monitoring of the soil and water on-site will provide a measure of the effectiveness of the SVES and AS.

3.1 Introduction

The following work plan presents the remedial action objectives, identifies general response actions, and screens potentially applicable technology types and process options to remediate soil and perched water at the site. The following is a list of the potential remedial technologies that AEL considered for both soil and perched water:

-Water Monitoring and Sample Analysis
-Water Treatment Using Extraction Wells
-In-Situ Biological Treatment of Soil
-Extraction of Soil and Biological Treatment using Anaerobic Digestion
-Water Treatment Using Passive Aeration
-Physical Treatment of Water Using Air Stripping
-Physical Treatment of Water Using Activated Carbon Adsorption
-Physical Treatment of Water Using Steam Stripping
-Chemical Treatment of Water Using Ultraviolet Photolysis/Ozonation
-Chemical Treatment of Water Using Chemical Reduction/Oxidation
-On-Site Water Recharge after Treatment
-On-Site Use of Treated Water in Plant Operations
-On-site Re-injection of Water after Treatment

3.2 Screening of Potentially Applicable Remediation Technologies and Options

The screening of the aforementioned technologies is based on the remediation technology effectiveness, implementability and cost. The technology types that AEL considers potentially applicable to soil and perched water remediation at the 218 Lakeville Road site are identified and discussed in this section.

The technology types are subdivided into the process options for each technology application. Each option is described and evaluated based on effectiveness, implementability and cost. The process options within each technology are compared and evaluated at the end of each technology type section.

3.2.1 Technology Type - Water Monitoring and Sample Analysis

Description: Samples of water are periodically collected from on-site water monitoring wells. The collected samples are delivered to a New York State certified laboratory where they are analyzed for concentrations of volatile organic compounds (VOCs) to determine if the VOCs concentrations have reduced to acceptable levels. Depth to water can be used to calculate direction of water flow that is subject to seasonal conditions.
Effectiveness: The laboratory analysis of water samples collected from monitoring wells is an effective method for determining changes in contaminant concentrations. Monitoring can also used to track the effectiveness of other remedial activities.
Implementability: Water monitoring can be performed using the five water monitoring wells already installed on-site. No additional monitoring wells are required at this time.
Cost Considerations: Assuming that monitoring well sampling will be performed annually, the major costs will be associated with the labor required to collect the samples and the laboratory fees for sample analysis.
Evaluation of Technology Option: Water monitoring and sample analysis will be retained for further evaluation in developing alternatives track water contaminant levels and evaluate the effectiveness of remedial alternatives.

3.2.2 Technology Type - Extraction: Process Option - Extraction Wells

Description: Extraction wells are used to recover water to be treated and/or discharged at the surface. Extraction wells are also used to reduce downgradient contaminant migration in water through plume containment. Water flow conditions, draw down at the well, and the radius of pumping influence would depend on hydrogeological characteristics, extraction well size and depth, and pump specifications. Assumptions can be made to estimate the number of wells, well spacing, and pumping rates that would be required to control contaminant migration in water and/or recover contaminants. A water monitoring program would be necessary to demonstrate the effectiveness of the extraction wells.
Effectiveness: Extraction wells can be used to recover contaminated water from the aquifer for treatment and discharge. Extraction wells can also be used to contain contaminated water, however there is no guarantee that downgradient migration would be prevented.

Implementability: Materials and contractors are readily available to install extraction wells. Extraction wells require long term operation and maintenance. The number of extraction wells and the well pumping rate depends on the size of the contamination plume to be remediated.
Cost Considerations: The installation costs for extraction wells and pumps at the 218 Lakeville Road site will depend on the size and depth of the extraction well (s). Long term operation and maintenance costs are estimated at 10 to 15 percent of the installation costs.

3.2.3 Technology Type - Biological Treatment: Process Option - In-Situ Bioremediation

Description: Bioremediation treats contamination using microbial degradation. The process alters environmental conditions to enhance microbial activity that may accelerate the decomposition of organic compounds into carbon, hydrogen and water. The technology has developed rapidly in recent years. Laboratory, pilot and field studies at various sites have demonstrated that contaminated water can be reclaimed using in-situ biological treatment. The in-situ bioremediation technology relies on aerobic (oxygen-requiring) microbial processes. This method optimizes environmental conditions by delivering an oxygen source and nutrients to saturated soils using injection wells or an infiltration system to enhance microbial activity. The feasibility of bioremediation as an in-situ treatment technique depends on the biodegradability of the organic contaminants present and environmental factors that affect microbial activity, such as pH, temperature, and nutrient levels. Research has confirmed that, under anaerobic conditions, microorganisms may breakdown organic compounds such as PCE, and TCE. Chlorinated solvents such as TCE appear to be resistant to biological degradation in the presence of oxygen; however, breakdown of these compounds has been observed in the presence of natural gas or methane and air. The more heavily chlorinated compounds are degraded more slowly than less chlorinated compounds, and sometimes no biological degradation occurs.
Effectiveness: In-situ bioremediation may effectively degrade organic compounds present in water at the 218 Lakeville Road site. The halogenated organics (i.e. – TCE and PCE) may be degraded under anaerobic conditions or in the presence of natural gas, methane and air. A field test would be required to determine whether bioremediation is an effective option to remediate water at the 218 Lakeville Road site.
Implementability: Microorganisms are very sensitive to slight changes in their environment. Small fluctuations in pH or temperature may interfere with biodegradation processes or reduce biodegradation rates. Biodegradation time frames depend on oxygen availability and contaminant levels in the saturated zone. A small-scale test would be required to determine the feasibility of biologically treating water at the site.
Cost Considerations: In-situ bioreclamation costs depend on the site geology and hydrology, the extent of contamination, the types and concentrations of contaminants and the volume of water to be treated. These costs could only be estimated upon completion of a field test.

3.2.4 Technology Type - Extraction: Biological Treatment: Process Option - Anaerobic Digestion

Description: Anaerobic biological treatment processes reduce organic matter to methane and carbon dioxide in an oxygen-free environment. High organic degradation efficiencies can be achieved. Available anaerobic treatment concepts are based on approaches such as the classic well-mixed system, the two-stage system, and the fixed bed. The well-mixed digester system typically requires long retention times and is easily upset. In the two-stage approach, two vessels are used to maintain separate environments optimized for different types of bacteria. Retention times are significantly lower and upsets are uncommon in this approach. The fixed bed approach (for single or two-stage systems) uses an inert solid media to which the bacteria attach and aqueous wastes are pumped through columns of bacteria-rich media. Use of such supported cultures allows reduced retention times, and bacterial loss through washout is minimized. A number of proprietary anaerobic digestion processes are being actively marketed, each with distinct features but all utilizing the fundamental anaerobic conversion to methane and carbon dioxide. This process may be used to treat high strength organic wastes. Wastewater that contains low levels of organics, such as the perched water at the 218 Lakeville Road site, generally cannot support a biological system. Anaerobic digestion can handle certain halogenated organics better than aerobic treatment. Stable, consistent operating conditions must be maintained. Since methane and carbon dioxide gases are formed, it is common to vent the gases or burn them in flare systems, although volatile hazardous materials could escape from such systems. Controlled off-gas burning may be required.
Effectiveness: Anaerobic digestion may effectively degrade organics, including halogenated organics in water at the site. The organics would be reduced to methane and carbon dioxide gases that may require treatment to ensure allowable emissions.
Implementability: Anaerobic digestion must be performed in a controlled, oxygen-free environment. Several types of anaerobic digesters are commercially available and some require long detention times to achieve degradation of the organics in water.
Cost Considerations: Anaerobic biodegradation costs depend on the volume of water requiring treatment, the number and types of microorganisms used, and the system detention time. A gas emissions control system would further increase the treatment costs.

3.2.5 Evaluation of Biological Treatment Process Options

In-situ bioremediation will not be retained for further consideration in this remedial work plan. Biodegradation generally requires substantially increased water remediation times compared with other treatment options available. Biodegradation is a difficult process to control and monitor. Other processes, such as the physical treatment options described in the following section would be more effective in treating water at the 218 Lakeville Road site.

Anaerobic biodegradation will not be retained for further evaluation in this remedial work plan. Anaerobic systems are subject to technical problems. Anaerobic degradation processes also have low throughput rates, which can significantly increase the remediation time when compared with other water treatment options.

3.2.6 Technology Type - Physical Treatment: Process Option - Passive Aeration
Description: Aeration effectively removes volatile organics from water. The degree to which a contaminant enters the gaseous phase depends on a combination of physical/chemical characteristics such as diffusivity, molecular weight, solubility and vapor pressure, and can be expressed as a physical constant known as Henry's Law constant. The greater the Henry's Law constant for a particular VOC, the easier it is to remove a particular VOC from water by aeration. Because the Henry's Law constant increases with temperature, the water temperature also affects the efficiency of contaminant removal by aeration. A passive aeration system, such as a cascade aerator, transfers VOCs, including PCE and TCE from water to air. Water flows by gravity down a structure designed to create turbulence, which aerates the water. As the water is mixed with air, the VOCs are stripped from the water to a gaseous phase. The quantity of VOC emissions would be estimated during design, and emission controls and/or treatment would be provided, if necessary, to comply with NYSDEC air quality regulations.
Effectiveness: Passive aeration systems such as cascade aerators can remove VOCs including TCE and PCE from water extracted at the 218 Lakeville Road site. However, passive aeration systems will not adequately remove these compounds to comply with regulatory discharge limits. VOCs would be transferred from the water to the atmosphere, and emissions controls would be used, if necessary, to comply with NYSDEC regulations.
Implementability: Passive aeration systems can be readily constructed and used at the point of water extraction or discharge. Passive aeration systems are simple to design and implement.
Cost Considerations: The estimated cost to install a passive aeration system is on the order of approximately $10,000. The cost depends on the volume of water to be treated and the aerator design required to achieve desired VOC removals.

3.2.7 Technology Type - Physical Treatment: Process Option – Air Stripping
Description: Aeration effectively removes VOCs from water. The degree to which a contaminant enters the gaseous phase depends on a combination of physical and chemical characteristics such as diffusivity, molecular weight, solubility and vapor pressure and can be expressed as a physical constant known as Henry's Law constant. The greater the Henry's Law constant for a particular VOC, the easier it is to remove a particular VOC from water by aeration. Because the Henry's Law constant increases with temperature, the water temperature also affects the efficiency of contaminant removal by aeration. Aeration is available in various forms including tower aeration, diffused aeration, and spray aeration. Air stripping contacting systems provide mass transfer of organic contaminants from the liquid phase into an air stream. An air-stripping unit can be designed in a number of configurations, the most common being the countercurrent packed and tray towers. In packed and tray tower aeration, mass transfer of VOCs from the water to the air is facilitated by mixing contaminated water and uncontaminated air in a countercurrent flow pattern. Contaminated water is pumped to the top of the column, distributed, and trickled down through a bed of packing material or over trays. Uncontaminated air is blown in or drawn into the bottom of the column. The packing

material and trays provide a large surface area to mix air and water, contact time for the VOC molecules to transfer from water to air, and a large void volume to reduce the air system energy loss. Air containing VOCs is then released to the atmosphere at the top of the column.

Air stripping would remove VOCs having Henry's Law constants greater than 3.0 x 10 exp. -3 atm-m^3/mole such as TCE and PCE found in water at the 218 Lakeville Road site.

VOC emissions from air strippers may be captured and treated, if necessary, using vapor phase carbon adsorption. The need for emissions controls would be determined during design. In addition, packed towers may require periodic cleaning to remove iron and manganese scale that may form and small quantities of metal (e.g., iron) sludge may require disposal.

Effectiveness: Air stripping is a proven effective method to remove VOCs from aqueous wastes. Water districts to mitigate VOC impacts on drinking water supplies, commonly use air stripping. Water contaminants such as TCE and PCE can be effectively removed by air stripping to meet drinking water standards or water discharge limits. VOC removal efficiencies greater than 99% can be achieved by air stripping. VOC air emissions are not expected to be significant based on the concentrations found in water at the 218 Lakeville Road site. The air stripper towers can be designed with the diameter and packing height specified according to the water flow rate and desired percent removal.

Implementability: Air stripping is a proven method to remove VOCs from water. Air stripping can be readily implementable and many vendors are available to supply air stripping towers to the site.

Cost Considerations: Air stripping costs would depend on the design and number of towers required to treat the water at the 218 Lakeville Road site.

3.2.8 Technology Type - Physical Treatment: Activated Carbon Adsorption

Description: Carbon adsorption removes soluble contaminants from an aqueous or gaseous waste stream and binds the contaminants to the surface of a solid activated carbon adsorbent. The adsorbent can be powdered or granular carbon.

Activated carbon adsorbs VOCs including TCE and PCE. Factors affecting adsorption include carbon pore structure and surface area, carbon contact time, temperature and pH. Mixtures of organics can reduce adsorptive capacity for certain compounds because compounds are adsorbed preferentially. Carbon adsorption is not recommended for wastewater having a high solids content or unassociated metals. Constituents having low molecular weights, high polarities and/or high solubilities limit carbon adsorption effectiveness.

Carbon adsorption treatment produces treated effluent and contaminated spent carbon. The spent carbon contains the waste constituents removed from the aqueous streams and must be either regenerated on or off-site, or disposed of in a secure landfill. Thermal

regeneration of the used carbon is the most common method currently used. Other regeneration methods employed are solvent and steam regeneration.

Several carbon adsorption-contacting methods are available. In granular activated carbon systems, the aqueous stream contacts the carbon as it flows through a fixed or moving bed. As the carbon adsorption capacity is spent, it is replaced with new or regenerated carbon. Biological activity sometimes occurs in the carbon system and can contribute positively, via biodegradation, or negatively, via clogging.

Carbon contacting beds can be skid-mounted and placed on flat bed trucks or railcars and transported to various sites. Additional equipment including pumps and piping, backwash equipment, carbon transfer equipment, and possibly a carbon regeneration system would be required.

Effectiveness: Activated carbon adsorption can effectively remove low concentrations of organics such as TCE and PCE from water at the 218 Lakeville Road site. In general, activated carbon adsorption can provide over 99% contaminant removal efficiency. The spent carbon may be disposed of or regenerated. Carbon adsorption is often employed as a secondary wastewater treatment process following air stripping, when organic removal efficiencies greater than 99% are desired.

Implementability: Activated carbon adsorption is a proven method to treat water contaminated with organics. Many commercial service companies supply mobile carbon adsorption systems.

Cost Considerations: Activated carbon adsorption costs would depend on many factors, including the volume of water requiring treatment, desired removal efficiencies, and carbon usage rate. There is also a substantial cost associated with the periodic carbon replacement and disposal/regeneration; annual O&M costs may be 10% to 20% of the initial installation cost.

3.2.9 Technology Type - Physical Treatment: Steam Stripping

Description: Steam stripping uses steam to extract organic contaminants such as the compounds in the water at the 218 Lakeville Road site (i.e. TCE) from a liquid or slurry. Direct steam injection and multiple pass heat exchanging are the two most common steam stripping methods. Steam stripping by steam injection, usually into a tray or packed distillation column, removes VOCs from aqueous streams. This unit operation is most effectively applied to remove VOCs with low boiling points. Steam stripping is more costly than air stripping and carbon adsorption treatment when applied to organic waste streams with less than 10,000 ppm organics.

Further treatment of both the overhead and bottom streams is generally required. Concentrated organic bottoms must be separated from the condensed steam and, in some cases, these bottoms may be recycled. Overhead products undergo liquid-liquid separation, typically by decanting and dehydrating the recovered organic bottoms. Steam stripping may generate VOC air emissions. These emissions may be captured and treated using vapor phase carbon adsorption. The need for emissions controls would be determined during remedial design.

Tray steam stripping towers provide staged contact between liquid and vapor streams. Alternatively, packed towers are less expensive and have low liquid hold-up and low pressure drop. Tray columns have been more widely used in the past and are more predictable. Tray columns are more flexible since they operate efficiently over a wide range of flow rates and can be readily adapted to process multiple feeds or side streams. They are also more easily cleaned and can process wastes with high concentrations of metals, solids, or polymerizable materials.

Steam stripper design depends on the waste characteristics, throughput, and desired residual characteristics. Currently available steam strippers have throughputs ranging from 250 gpd to 500,000 gpd.
Effectiveness: Steam stripping effectively removes organics with low boiling points and which are present at much higher concentrations (greater than 10,000 ppm) than those concentrations found in water at the 218 Lakeville Road site. Therefore, steam stripping would not efficiently remove organics from water at the site.
Implementability: Steam stripping can be technically implemented at the site; however, the water contaminant concentrations are not suitable for treatment using this option.
Cost Considerations: Steam stripping costs would be higher than air stripping or carbon adsorption costs. The costs depend on the water flow rate and desired removal efficiency.

3.2.10 Evaluation of Physical Treatment Process Options

Passive aeration will not effectively achieve the required VOC removals to treat water at the 218 Lakeville Road site. Passive aeration will not be retained for further evaluation in this FS.

Air stripping is a proven, effective technology to treat the organics at the concentrations found in water at the site and will be retained for further evaluation in this FS. Activated carbon adsorption can be effective and will also be retained for further evaluation.

Steam stripping will not be retained because this process would not efficiently remove the levels of VOCs in the water as compared to air stripping.

3.2.11 Technology Type - Chemical Treatment: Ultraviolet Photolysis/Ozonation

Description: Ultraviolet (UV) photolysis uses UV radiation to destroy or detoxify hazardous chemicals in aqueous solutions. Ozonation has been combined with UV photolysis to enhance the efficiency of oxidation reactions for compounds that are difficult to oxidize such as halogenated organics.

The influent to the UV photolysis/ozone treatment system is mixed with ozone and flows past numerous ultraviolet lamps in the reaction chamber. Flow patterns and configurations are designed to maximize exposure to the high energy UV radiation. Industrial systems are generally equipped with recycle capacity. Gases from the reactor

are passed through a catalyst unit where volatiles are destroyed and the gases are replenished with ozone, and recycled to the reactor. The system has no gas emissions.

UV photolysis/ozonation is typically used to treat aqueous streams containing less than one- percent oxidizable material. The presence of oxidizable materials, other than target pollutants, increases treatment costs.

UV photolysis/ozonation may effectively oxidize halogenated organics (i.e., PCE, TCE) in the perched water at 218 Lakeville Road site. Ultrox International has manufactured units that employ UV photolysis, ozone, and hydrogen peroxide to treat aqueous streams. The Ultrox System is a developing technology.
Effectiveness: UV photolysis/ozonation can effectively destroy or detoxify organics in aqueous streams. The UV light increases oxidation of contaminants by ozone. UV photolysis/ozonation can effectively treat organics such as PCE and TCE in water at the site. The process produces no gas emissions; however, the contaminated water may require pretreatment to prevent fouling of the UV lamps.
Implementability: UV photolysis/ozonation, although not widely used, is implementable at the site and produces no hazardous air emissions.
Cost Considerations: UV photolysis/ozonation unit installation costs are approximately $200,000 and annual O&M costs are approximately 30% of the installation cost. These costs are much higher than physical treatment technology (i.e. - air stripping and activated carbon) costs.

3.2.12 Technology Type - Chemical Treatment: Chemical Reduction/Oxidation
Description: Reduction/oxidation raises the oxidation state of one reactant while the other is lowered. This process reduces the toxicity of organics and metals. Reduction reacts a reducing agent with water to lower the oxidation state of the waste constituent. Typical reducing agents are ferrous sulfate, sulfur dioxide and sodium chlorohydride.

Chemical oxidation raises the oxidation state of a compound. Oxidation agents include ozone, hypochlorite, hydrogen peroxide, chlorine and potassium permanganate. Oxidation of halogenated organics, such as TCE and PCE at the low concentrations found in water at and around the 218 Lakeville Road site may be effective. The theoretical decomposition products of organic compound oxidation are carbon dioxide and water; however, the reactions are generally incomplete and yield intermediate organic compounds.
Effectiveness: Chemical reduction/oxidation may effectively reduce the toxicity of organics by altering the oxidation state of the compound. Oxidation may effectively remove PCE and TCE from the water.
Implementability: Chemical reduction/oxidation can be implementable at the 218 Lakeville Road site.
Cost Considerations: The chemical reduction/oxidation capital and operating costs are estimated at approximately $50,000 for small treatment systems (< 100 gpm). The costs would increase significantly if higher flows must be treated.

Evaluation of Chemical Treatment Process Options
Neither UV photolysis/ozonation or chemical reduction/oxidation will be retained for further evaluation in this remedial work plan. Physical treatment processes such as air stripping and activated carbon adsorption would remove organics including TCE and PCE from water at the 218 Lakeville Road site at higher efficiency and lower cost than the chemical treatment options.

3.2.13 Technology Type - Discharge: Water Recharge

Description: Treated water that meets New York water quality standards may be percolated through subsurface soils to recharge the underlying water. Soils at the 218 Lakeville Road site are primarily sands and gravels; therefore, water would infiltrate to water at a moderate rate. Leaching pools could be constructed to distribute water, which would seep into surrounding soils and percolate through the soil to water. Alternatively, recharge basins could be constructed or existing recharge basins such as the basin at the southwest corner of the site could be used.
Effectiveness: Treated water could be effectively recharged using recharge basins or leaching pools. The water recharge area required would be determined during design based on water flow rates and site-specific geologic conditions.
Implementability: Existing leaching chambers could be used to implement this water discharge option. New leaching pools could also be constructed on-site with some difficulty. There are no recharge basins at the 218 Lakeville Road site.
Cost Considerations:
Leaching pool installation costs would depend on the quantity of water to be discharged. If existing leaching pools can be used for water recharge, the only capital costs associated with this discharge option would be the cost to lay piping from the water treatment system to the discharge points. Significant costs would be associated with obtaining approvals and purchasing open land if necessary to recharge treated water. However, the availability of open land seems remote.

3.2.14 Technology Type - Discharge: Use in Plant Operations

Description: Sometimes recovered water may be used as plant process water in a plant facility non-contact cooling systems. The water would be treated either before or after being used in the cooling systems, and then discharged to on-site diffusion wells along with other non-contact process water from the plant. Additional treatment to de-aerate the water may be required to prevent scale formation in the non-contact cooling systems.
Effectiveness: Using treated water as process water in the plant and discharging it to on-site diffusion wells is sometimes an effective way to discharge the water and reduce the plant's water demands.
Implementability: This discharge process option may be implementable at the site, depending on the volumes of water to be recovered.
Cost Considerations: If recovered water can be used as process water, the only significant capital costs associated with this discharge option will be the cost to lay piping from the water treatment system to the appropriate process unit in the plant and to de-aerate the water, if necessary.

3.2.15 Technology Type - Discharge: Water Re-Injection

Description: Injection wells may be used to discharge treated water directly into the saturated zone. The wells would be screened so that treated water would be re-injected below the water table. Re-injection would replenish the aquifer; however, there is a limit on the volume of water that can be re-injected due to hydrogeologic conditions. Aquifers typically yield significantly more water to extraction than they accept through re-injection.

Effectiveness: Treated water may be effectively discharged into the water table through injection wells. Water discharge in this manner may prevent aquifer depletion.

Implementability: The feasibility of discharging treated water using injection wells would depend on the volume of water to be discharged.

Cost Considerations: The capital cost to install injection wells would be approximately $20,000 per well. High maintenance costs would be associated with screen and piping rehabilitation that would be required.

3.3 Evaluation of Water Discharge Options

All of the water discharge options, namely: recharge, using recovered water as non-contact process water, and re-injection, would be effective and implementable, provided that New York State water quality standards are met prior to discharge.

3.4 Selection of Applicable Remedial Technologies

Based on the technology screening, AEL has determined that the following remedial technologies are appropriate for the 218 Lakeville Road site:

-Soil Excavation In and Around DW#1, LP#2, FD#1 and FD#2
-Soil Remediation Using Soil Vapor Extraction (SVE)
-Perched Water Using Air Sparging (AS)

The perched water will be monitored during the operation of the AS/SVE systems.

The highest VOC concentrations in the study area were found in the perched water samples collected from MW-1, at the southwest corner of the site. This area has been identified as a VOC hotspot. Based on the data summarized in the draft FRI and supplemental FRI reports, it appears that a concentrated mass of VOCs is passing through the soil to the perched water aquifer at this location. Therefore, it is expected that a significant mass of VOCs would be recovered from the perched water by treating it at this hotspot area with AS/SVE.

The highest concentrations of PCE in the soils are located at FD#2 inside the building as well as at DW#1. To treat this contamination, the most contaminated soils have been removed from DW#1, then the drywell filled with clean sand and a soil vapor extraction well installed adjacent to the former drywell. SVE will be used to treat the remainder of

the contaminated soils in DW#1. The contaminated soils in LP#2, FD#1 and FD#2 have been excavated to the fullest extent possible and the residual contamination will be treated using the SVE system, also.

The perched water on-site will be remediated using air sparging in conjunction with SVE.

4.0 Conclusions and Recommendations

On-site source areas in the soil identified to date are FD#1, FD#2, DW#1 and LP #2. The contaminated soils in those structures have been excavated to the fullest extent possible and endpoint sampling of the soils indicated that the concentrations of volatile organic compounds exceed the New York State TAGM. Based on the feasibility study that evaluated the various remedial alternatives, the remedial technique proposed to remove the remaining contamination in the soils is soil vapor extraction. Perched water contaminated by these soils will be remediated using air sparging in conjunction with soil vapor extraction. These two remedial techniques will be designed to reduce the concentration of volatile organic compounds to cleanup levels.

On-site soils contamination appears to have impacted off-site soils. The vertical and horizontal extent of this off-site soil and possible perched water contamination has not been identified. Proposed soil and perched water investigations will identify the extent of this contamination.

The on-site soils and perched water contamination will be addressed by implementing an Interim Remedial Measure described in Section 5.0.

The volatile organic compounds of concern in this investigation have specific gravities greater than 1.0 and as such, are heavier than water. Therefore, these compounds may have impacted the Upper Glacial Aquifer that is located below the perched water on-site. One groundwater monitoring well will be installed into that aquifer and a sample of the groundwater collected for analysis via EPA method 8260. The installation of this well will require the clay aquaclude to be breached. Section 5.5 includes the technique for installing this well.

Section 5.6 includes a description of the off-site investigation that was performed in November 2000 to determine the vertical and horizontal extent of soil contamination. Another purpose of this off-site investigation was to determine if there is perched water contamination off-site.

Once the laboratory data for the off-site sampling have been received and evaluated, the on-site remediation systems will be modified accordingly.

5.0 On-Site Interim Remedial Measure Work Plan

The four contaminant source areas in the on-site soils have been excavated to the fullest extent possible. The remaining contamination will be remediated *in-situ* using soil vapor extraction to remediate the soils and air sparging to remediate the contamination in the perched water. The SVE/AS systems have been designed to remediate the contamination on-site using the results of the pilot tests performed.

The off-site remediation system design will be completed following the completion of the off-site investigation to define the vertical and horizontal extent of contamination.

To maximize the removal of VOCs from the soils on-site, the SVE/AS systems will be put into operation in two steps. The SVES will operate alone initially until the PID readings decline at the location before the emissions enter the carbon filters. Following this decline, the AS system will be put into operation.

5.1 Excavation of Contaminated Soils

As was previously discussed, DW#1 and LP#2 have been excavated to the fullest extent possible. The depth to the bottom of the pool was 13 feet below grade at the start of the cleanout and 17.5 feet below grade at the completion of the cleanout. An endpoint sample was collected from the approximate center of the pool. Laboratory analysis via EPA method 8260 indicated that the concentration of tetrachloroethene was 1,600 parts per billion.

At the start of cleanout of DW#1, the sediment was approximately 12 feet below grade. At the completion, the depth was approximately 25 feet below grade. Endpoint samples were collected from approximate center of the pool as well as from the four sides that were correlated with the compass quadrants of north, east, south and west. Laboratory analysis of these five samples for VOCs via EPA method 8260 indicated the following concentrations of trichloroethene and tetrachloroethene in milligrams per kilogram (mg/Kg). The concentrations in bold typeface exceed the State Recommended Soil Cleanup Objectives.

Compound	DW1SS2-21 (center) mg/Kg	DW1SS4-21N mg/Kg	DW1SS6-21E mg/Kg	DW1SS3-21S mg/Kg	DW1SS5-21W mg/Kg	NYSDEC Soil Cleanup Objective mg/Kg
Trichloroethene	ND	**220**	ND	**77**	ND	0.7
Tetrachloroethene	**5,400**	**26,000**	**11,000**	**18,000**	**4,300**	1.4

ND = not detected

The pools have been backfilled with clean sandy material to the approximate surface of the site. A separate report will be prepared discussing the excavation of these structures. Waste manifests will be included with that report.

Residual contamination will be removed using soil vapor extraction.

5.2 Floor Drain Remediation

FD#1 and FD#2 have been partially remediated by using a vacuum truck to remove contaminated soil. FD#1 was excavated to a depth of six feet below grade. The endpoint soil sample indicated PCE contamination of 6,200 parts per billion.

FD#2 is constructed of bricks that form a 2.5 feet diameter drywell structure in the basement of the building. The drain was cleaned out to a depth of ten feet below the concrete slab. Laboratory analysis of this sample indicated a PCE concentration of 11,400,000 parts per billion. Large rocks prevented additional soil excavation beyond the 10 feet depth.

Prior to back filling the two drains with clean sandy soils, a four-inch diameter SVES well was installed in each floor drain. The screened interval for FD#1 is from 1.5 to 6.0 feet below the concrete slab. The screened interval of the well in FD#2 is between 4 and 10 feet below the concrete floor of the basement.

5.3 Installation of an On-Site and Off-Site Soil Vapor Extraction System

The on-site and off-site Interim Remedial Measure (IRM) SVE wells will be installed in locations identified on Figure 9. Each of the new on-site and two new off-site wells will be installed to depths identified in the table below. The need for additional off-site wells will be determined during the soil and perched water investigations off-site.

Well #	Extraction Wells	Extraction Well Screen Interval
RW1	Yes	15 to 25 feet
RW2	Yes	15 to 25 feet
RW3	Yes	15 to 25 feet
RW4	Yes	15 to 25 feet
RW5	Yes	15 to 25 feet
RW6	Yes	15 to 25 feet
RW10	Yes	15 to 25 feet
B1	Yes	10 to 25 feet
RW7	Yes	10 to 25 feet
RW8	Yes	15 to 25 feet
RW9	Yes	15 to 25 feet

FD1	Yes	1.5 to 6 feet
FD2	Yes	3 to 7 feet

NA = not applicable
TBD = to be determined by off-site sampling

These extraction wells will be manifolded and connected to a 5 horsepower electric regenerative blower manufactured by Ametek Rotron, or equal (Specification catalogue sheets are in Appendix 4). These four inch diameter wells will be installed using a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers and will be screened with a 0.01 inch slot size. The balance of these wells will be constructed of solid PVC riser.

Each extraction well will be constructed by back filling the area around the well casing with filtered Morie #0 sand in the screened area of the well. A two-feet thick layer of bentonite clay will be placed above the screened interval to seal the screened area from the soils above. The solid PVC riser will be back filled to grade with a slurry of bentonite and cement (Figure 11). The well will be finished at grade inside a curb box set in concrete.

Contaminated drill cuttings will be placed in drums, sampled and disposed of properly. Waste manifests will be provided documenting the disposal.

Just below the ground surface, the 4-inch diameter wells at FD#2 and B1 will be reduced to 2-inch diameter solid horizontal PVC pipe. The new wells will all be 2-inch diameter. The horizontal two-inch diameter piping will be schedule 80 PVC piping and will be placed in trenches that are approximately two feet deep by one and one-half feet wide. The piping will be placed approximately one foot below grade and the trench will be back filled with clean native soils. The surface of the trench will be paved with asphalt.

Each of the SVE wells will be completed at grade with a curb box. The regulating valve will be arranged such that each well can be operated independently and will be located inside the equipment shed (Figure 17). All valves will be located in the equipment shed to provide easy access. These valves will be used to segregate the various legs of the extraction system. The legs of the SVES will be manifolded such that each leg can be individually controlled and monitored using the vapor monitoring points that will be located between the extraction well and the blower. Once the soils around an extraction well have had the volatile organic compounds removed from them, that extraction well will be removed from operation by turning the ball valve to the off position.

Emissions from the soil vapor extraction system will pass through a moisture separator drum with a Flotect Model L-6 float switch, into a particulate filter (Figure 13), through the Gast blower and through a 2 series vapor-phase carbon units. The primary unit is provided by two Carbtrol, 170-pound units -- models G-2 and GK-2 (Appendix 5). A 4-inch PVC discharge stack will be attached to the side of the building with the discharge point at a height of at least 8 feet above the existing building elevation. The discharge

stack will be attached to the side of the building and located such that effluent will not impact the air intakes for the building. There are no air intake points located on the roof of Imperial Cleaners.

The SVES equipment will be operated in accordance with the NYSDEC's Air Guide-1. The Annual Guideline Concentration at the property line will be calculated. Carbon canisters will be replaced when required to stay in compliance with these air regulations.

An electrical connection will be made from the blower through appropriate control switches/panels then to a utility panel on the exterior of the building and to switch on the interior of the shed, where the remediation equipment will be housed. The purpose of the Flotect Model L-6 float switch is to shutdown the SVE when the quantity of liquid reaches a height when it would enter the particulate filter and/or blower. The system will be monitored at intervals that prevent the system from being shutdown for extended periods of time. As the quantity of liquid captured by the system increases, the frequency of site visits will increase.

During the term of SVES operation, monthly reports will be submitted to the NYSDEC, or other parties designated by NYSDEC describing the system operation and progress. These reports will identify the quantity of condensate collected in the moisture separator; the amount of contaminants recovered and the cumulative total amount of contaminants recovered by the system.

5.4 Step Four – On-Site Air Sparging System Installation

The air sparging system will be installed as part of the final remedy for the perched water contamination on and off site.

The design of the on-site air sparging system is based on the site-specific calculated radius of influence of the six sparge wells which is 30 feet. This radius was combined with the determined extent of on-site perched water contamination to complete the design of the air sparging system design that is illustrated on Figure 8.

Each sparge well will be installed to a depth of approximately 48 feet below grade, or just above the clay layer if the clay layer is shallower than 48 feet. These two-inch diameter wells will be constructed of schedule 40 PVC and a .010 slot (0.01-inch slotted) screen. The screen length will be two feet (46 to 48 feet) and the solid riser pipe will be approximately 46 feet in length. The screened portion of the well will be backfilled with #1 Morie sand pack followed by a five-foot thick bentonite seal. A schematic profile of a typical sparge well is presented in Figure 11.

At the perched water interface, a one-foot thick bentonite seal will be placed and the balance of the well will be backfilled with a bentonite clay and cement slurry. These wells will be flush mounted in a curb box. A shutoff valve will be located in each box so a sparge well could be regulated. Horizontal piping will be installed in sand filled

trenches approximately one foot below the surface of the ground. The horizontal piping will be manifolded and connected to a compressor.

The associated SVE and AS wells will be installed so they work in concert. The sparge wells and soil vapor extraction wells will be installed in separate boreholes.

The compressor will be a rotary lobe-type, or acceptable alternative, 10-horsepower reciprocating compressor equipped with a heat exchanger. Additional details will be supplied regarding the compressor when the laboratory data for the November 2000 perched water data are evaluated to determine the horizontal extent of contamination. The air compressor will be placed in the basement of Imperial Cleaners along with the SVE blower. An electrical connection will be made from the air compressor through appropriate control switches/panels to a utility panel.

Each of the air sparging points will be connected to the air blower using ½ -inch diameter PVC piping leading from the sparge points to the basement.

5.5 Investigation of 218 Lakeville Road Building

The heating, ventilating and air condition (HVAC) systems in each of the stores will be investigated to make sure that the location of the vent pipe for the SVE system is not located such that it will contaminate the indoor air.

The floor drain systems will also be investigated to determine if there is any connection between them that might allow contaminants in the FD#1 and FD#2 in Imperial Cleaners to impact other stores.

5.6 Installation of Water Monitoring Well Into Upper Glacial Aquifer

The purpose of the well is to obtain a representative groundwater sample from the Upper Glacial Aquifer (UGA) without allowing the shallow contaminated perched water to impact the UGA, which is approximately 150 to 160 feet below grade in the vicinity of 218 Lakeville Road. The perched water at 30 feet below grade and the thickness of the underlying clay aquaclude is unknown. Therefore, well will be installed in three steps.

Step One will be continuous split spoon soil sampling from the surface of the ground to the bottom of the clay unit. Once the bottom of the clay has been identified, the test borehole will be grouted to the ground surface. The drill rig will be moved a short distance from the borehole and Step Two will commence. The purpose of this step will be to install an eight-inch diameter steel surface casing into the clay, but not through the clay.

Step Three will occur the next day when a mud rotary drill rig will be used to advance the boring to approximately 155 to 160 feet below grade where the four-inch diameter PVC well to a depth of approximately 160 feet. The well will have ten feet of screening. Geophysical logging will be performed to obtain gamma and resistivity geophysical logs of the borehole to confirm the depth of the water table and stratigraphic sequence.

The well will be flush mounted at the surface inside a curb box . A locking cap will be placed on the well.

The well will be developed by pumping approximately twenty well casing volumes of water or until it appears to be clear and has a turbidity reading of less than 50 NTUs.

The purge water and drilling mud (approximately 1,200 gallons) will be containerized in a portable tank and will be disposed of properly. In addition, development water will be placed in drums and disposed of in compliance with applicable regulations.

Installation of the UGA well will be supervised by a geologist from Horizon Environmental Consulting Inc. of Locust Valley, New York.

The location of the UGA well will be determined based on the findings of the perched water sampling currently being performed on-site and off-site.

A USGS groundwater contour map for the Upper Glacial Aquifer is provided in Figure 19.

5.7 Off-Site Investigations and Remediation

5.7.1 Completed Off-Site Investigations

NYS Department of Health (NYSDOH) tested the indoor air quality in the basements and first floors of the subject property and properties to the west and detected tetrachloroethene (perc) in those samples. Therefore, additional information must be gathered to complete the design of the off-site SVES to evacuate the tetrachloroethene in the off-site soils.

In addition to the NYSDOH investigation, the property owner conducted an off-site soil gas survey on June 21, 2000 that indicated that the soil to the south of 218 Lakeville Road is contaminated with tetrachloroethene.

5.7.2 Completed Off-Site Soil and Perched Water Investigations – November 2000

Prior to installing the extraction and sparge well clusters and the supporting on-site SVES, the present conditions of the off-site soils need to be more thoroughly characterized using soil sampling and laboratory analysis at selected soil sample locations. To further define the vertical and horizontal extent of the soil and perched water contamination off-site, AEL proposes to collect discrete soil and perched water samples off-site and submit them for laboratory analysis via EPA method 8260.

Locations SGJT-1 through SGJT-6 sampled on June 21, 2000 (Track 6) identified volatile organic contamination at 220 Lakeville Road. Discrete soil samples were not

collected from these locations (Appendix 3). At these six locations, Geoprobe borings were installed and samples collected per the following protocol at each boring location:

1. Starting at approximately fifteen feet below grade, sample discrete soil were collected and screened with the PID.
2. If the PID reading was low, a tetracholoethene Sensidyne tube with a detection range of 0.2 to 5.0 parts per million was used to screen the sample.
3. If the tube registers tetrachloroethene above five parts per million, then the soil sample was screened again with a Sensidyne tube with a detection range of 10 to 300 parts per million.
4. The above soil sampling was performed at five-foot increments starting at fifteen feet below grade and was continue to approximately twenty-five feet. Perched water samples were collected at approximately thirty feet below grade.

Boring locations were approximately twenty feet apart along each track illustrated on Figure 20. The results of field sampling are contained in Table 18.

The 35 soil samples and 53 perched water samples were submitted for laboratory analysis via EPA method 8260.

To remedy a portion of the off-site contamination, a series of on-site extraction wells will be installed along the western boundary of the property at 218 Lakeville Road, on the western boundary of 220 Lakeville Road and between #2 and #4 University Place (on the property owned by #4 University Place)(Figure 21). The estimated radius of influence of these extraction wells is 35-feet and will screened at the elevation of and below the basement floor of the western properties and 218 Lakeville Road. The extraction wells will extend to approximately 35-feet depth below grade (DBG) and will be screened from 10 to 25-feet DBG.

6.0 Monitoring During On-Site and Off-Site Soil Remediation

The site remediation systems will be monitored during operation to both measure their effectiveness at removing the contamination from the soils and perched water, as well as, to make sure that they are in compliance with applicable rules and regulations.

The following listing summarizes sampling during the implementation of on-site interim remedial measures.

Daily Measurements During System Startup/Shakedown

1. Flow rates at each extraction well
2. PID readings between blower and carbon filter canister #1 (see Figure 18)
3. PID readings between carbon filter #1 and #2
4. PID readings between carbon filter #2 and exhaust stack

Weekly Measurements for Duration of the Project

1. Flow rates at each extraction well
2. PID readings between blower and carbon filter canister #1
3. PID readings between carbon filter #1 and #2
4. PID readings between carbon filter #2 and exhaust stack

Week 1 After Shakedown Change to Weekly Sampling

1. Sample between blower and carbon filter #1 using Tedlar bag
2. Sample between carbon filter #2 and exhaust stack using Tedlar bag

Monthly Measurements for Duration of the Project

1. Sample between blower and carbon filter #1 using Tedlar bag
2. Sample between carbon filter #2 and exhaust stack using Tedlar bag

All Tedlar bag samples will be submitted to an ELAP certified laboratory for analysis via EPA method 8260.

Monitoring of the SVE/AS systems will be on a daily basis at system start-up and during shakedown. Daily flow readings will be taken at each extraction well to aid in determining the flow rates that will be used to achieve an efficient operation of the SVE/AS. Once system shakedown has been completed and systems are working properly, monitoring will be performed on a weekly basis following the procedures identified in Section 6.1.

An adequate supply of carbon will be kept at the site for one change when the carbon canister connected to the SVE system is used up. Initially, carbon usage could be more rapid because of the concentration of VOCs in the soils will be the highest. To monitor the usage of the carbon, daily air sampling for VOCs will be performed before, between the two carbon filters and after the carbon filtering units using a PID. Following system

startup/shakedown, the frequency of this sampling will be changed to weekly per the schedule below.

6.1 Soil Vapor Extraction System

The AS/SVE systems will have two carbon filters attached to it in series to remove VOCs prior to the air being released to the atmosphere. The emissions from the SVES will be sampled once per week using a PID. These samples will be collected from ports in the exhaust piping located both before and after the air goes through the carbon filters, as well as between the two filters. The samples will be monitored using a PID and the concentrations at the three locations compared. The concentration of volatile organic compounds in the air stream and the flow rate of the stream will be used to determine approximately when the contaminants will break through the carbon filters. The purpose of this monitoring is to allow for a carbon change before the break through occurs. To gather additional information regarding the quality of the air leaving the second carbon canister, Sensidyne tubes will be used to sample for tetrachloroethene.

In addition, monthly air samples will be collected in a Tedlar bag and submitted to the ELAP certified laboratory for analysis for volatile organic compounds via EPA method 8260. These samples will be collected from before, between and after the carbon filtering units. This analysis will detect individual contaminants within the effluent of the SVES. The concentrations of individual contaminants in samples will be used to calculate the quantity of individual compounds that have been removed from the soils on-site on both a monthly and cumulative basis.

A PID will be used to monitor the concentration of total volatile organic compounds being removed from the soils. The concentration being removed from each of the extraction wells of the SVES will be determined by shutting down all but one of the wells and using the PID to measure the concentration of the total VOCs being removed from the ground.

When the concentration of volatile organics in an extraction well is below the PID detection limit (one part per million), that extraction well will be shut off for three months. At the end of that quarter, the well will be turned back on and re-sampled using the PID the following quarter. If the PID reading the following quarter is below the detection limit of the PID, an air sample will be collected in a Tedlar bag and submitted for laboratory analysis to determine if the air being removed from the well is clean. If the air is clean, the well will be taken out of service.

6.2 Operation, Maintenance and Monitoring Schedule

6.2.1 Introduction

This Operations and Maintenance (O&M) plan has been prepared for the operation of the Soil Vapor Extraction and Air Sparging system at the Imperial Cleaners. The components of the system consist of SVE wells and AS points. The soil vapor is extracted using a

Ametek Rotron 5 horsepower blower located either in a steel 10 feet by 15 feet shed located in the southwestern corner of the building. This shed will be manufactured and assembled by Man Products of Amityville, New York. The soil vapor passes through a moisture separator drum, particulate filter, into the blower and flows through a series of 2 vapor-phase carbon units located adjacent to the SVE/AS systems (Figure 13). The primary unit is provided by a Carbtrol 170-pound units Model G-2 and a secondary carbon unit Model GK-2.

Air sparging will be achieved using a 10-horsepower compressor.

This O&M plan addresses, component by component, the standard maintenance needed to operate the system as provided by the manufacturers. Copies of the owner's manuals for new equipment purchased for this project will be supplied to the NYSDEC upon receipt from the manufacturer.

A more detailed O&M manual and as-built drawings will be prepared following installation of the SVE system. This manual will include monitoring points used to calculate the radii of influence of the extraction wells including vacuum readings.

6.2.2 Maintenance Procedures

The SVE/AS systems will be checked at least once per week for possible air leaks, vacuum leaks, excessive temperatures, freezing conditions or other equipment related issues.

The air compressor should be inspected on the following basis.

Weekly

- Turn off the power to the compressor using the circuit breakers marked in the electric panel. Check lubricant level. Fill as needed.
- Ensure belt guards and covers are securely in place.
  Clean screen in automatic drain valve.

Monthly

- Inspect for air leaks.
- Check tightness of screws and bolts. Tighten as needed. Clean Exterior.

Yearly or after 2000 operating hours

- Change lubricant while crankcase is warm.
- Replace air filter.

Coalescing Oil-Removal Filter

- Check filter service indicator weekly. Replace filter element when indicator changes from green to red.
- This is a self-draining unit; no other maintenance is required.

Pressure Regulators

- There are no periodic maintenance procedures recommended by the manufacturer,

SVE Blower

Weekly

- Check vacuum gauge at inlet and record value.

Moisture Separator Drum

- The water level in the drum should be checked at least once a month. Turn off the power to the blower using the circuit breakers marked in the electric panel, place a container in front of the drain valve at the bottom of the drum and open the drain valve. If water flows out of the drum, the drum should be drained and the water stored in a suitable plastic container with a water-tight lid. The system can then be restarted. Contact Anson Environmental to arrange for the proper disposal of the condensate.

- The moisture knock-out drum contains an air filter to prevent sediment from entering the blower. The filter should be check every month or after a significant increase in the measured vacuum at the inlet to the blower. The filter element should be either cleaned or replaced depending on the condition of the element.

Vacuum Relief Valve

- There are no periodic maintenance procedures recommended by the manufacturer.

Carbon Canisters

- The sampling ports on the intake and discharge sides of the blower should be monitored at least weekly using an PID meter and the values recorded. Once the meter indicates a potential for a break through of the carbon, Anson Environmental will arrange for replacement of the unit.

- There are no periodic maintenance procedures recommended by Carbtrol.

6.2.3 Records, Monitoring and Sampling

Records and Monitoring

Samples of the SVE and AS system log sheets are attached in Appendix 6. These forms are kept in the basement on a clipboard. The following information should be recorded.

Information	Frequency
Blower Vacuum	Weekly
Concentration of Vapor Discharge using PID	Weekly for first 3 months Monthly months 4 to end
Sparging Pressures inWells	Weekly

Sampling

There are two types of samples that have to be collected on a periodic basis as discussed above.

Soil Vapor

- Anson Environmental will collect samples of the extracted soil vapor on a monthly basis and the frequency will be reduced to a quarterly basis with the NYSDEC approval. The samples will be analyzed for VOCs via EPA method 8260.
- Perc badges will be installed in the residences at #2 and #4 University Place. Sampling will be performed at these locations on a monthly basis until the concentration of tetrachloroethene reaches a concentration of 100 micrograms per cubic meter. Once that concentration has been achieved, sampling will be performed on a quarterly basis.
- Indoor air sampling inside the building at 218 Lakeville Road will be monitored on a monthly basis using perc badges until the system shakedown procedure has been completed. This sampling will be preformed on a quarterly basis following shakedown.

Water

- The water sample collection requires the use of portable pumps. These sample collections will be performed on a quarterly basis. The samples will be analyzed for VOCs including via EPA method 8260.

Reporting

The soil vapor and water laboratory data will be summarized in quarterly reports that will be submitted to the NYSDEC. The reports will include tables and/or graphs presenting the baseline concentrations measured before startup of the system and the quarterly results acquired thereafter. In addition, estimates will be made of the mass of contaminants that have been removed by the SVE/AS systems.

Progress reports will be prepared monthly to demonstrate that the remediation system is operating in compliance with Standards, Criteria and Guidelines (SCG).

The initial report will include an as-built drawing illustrating the AS/SVE systems, underground piping and location of other significant on-site structures. This drawing will be prepared by a New York State licensed land surveyor. The scale of the drawing will be approximately one-inch equals 20 feet.

6.3 Perched Water and Upper Glacial Aquifer Water

The impact of the SVE and AS systems on the perched water will be measured by sampling the perched water in the four monitoring wells on-site and one off-site monitoring well. These samples will be submitted for laboratory analysis via EPA method 8260, for volatile organic compounds (ASP Category B deliverables). The

concentrations in individual wells will be compared to determine if the concentrations of individual contaminants are being reduced by the SVES.

The initial round of water sampling will occur just prior to the operation of the AS/SVES. Perched water samples will be collected quarterly following that operation.

Depth to water measurements will be performed on a monthly basis to measure changes in water levels. The direction of perched water flow will be determined each month.

The water monitoring well installed into the Upper Glacial Aquifer will be sampled at the same time the five perched water monitoring wells are sampled. The analysis will be via EPA method 8260 (ASP Category B deliverables).

6.4 Soil Sampling

When laboratory analysis of air samples from each of the extraction wells determines that the emissions from the wells are clean, soil and perched water samples will be collected to determine the effectiveness of the SVES at removing volatile organic contamination from the soils on-site. The soil samples will be collected in the vicinity of extraction wells to determine if the soils in the vicinity have been cleaned to levels that would allow that extraction well to be removed from service.

Samples will be submitted to the ELAP CLP certified laboratory for analysis via EPA method 8260.

6.5 Air Monitoring Inside 218 Lakeville Road

Prior to beginning operation of the soil vapor extraction and air sparging systems, information will be assembled regarding the heating, ventilating and air conditioning (HVAC) system; floor drains system; plumbing system; vents and ducts in the building. These systems will be reviewed to determine if they are interconnected between the stores on-site. The purpose of this investigation is to identify potential contaminant migratory pathways for volatile organic compounds.

The investigation will also identify the locations of air intakes so that the stack for the SVES is not located such that emissions could impact indoor air quality in the on-site building. Impacts on indoor air quality are not anticipated as the effluent from the SVES will be filtered to make sure that emissions from the system are in compliance with applicable rules and air regulations.

Quarterly during the operation of the AS/SVES, perc badges will be hung inside the building to determine the concentration of tetrachloroethylene in the indoor air. The initial sampling will occur when the AS/SVE is turned on.

6.6 Waste Manifests

Copies of waste manifests for waste media removed from the site will be forwarded to the NYSDEC. These manifests will include those associated with the disposal of drill cuttings, carbon from the air filters, and condensate collected from the moisture separator on the SVE system.

6.7 SVE and AS System Monitoring and Equipment Termination Criteria

The following monitoring schedule will be used during the operation of the SVE and AS systems. The historical data generated during the operation of this equipment will be used to determine when it is appropriate to shut the remediation equipment off and collect soil and water samples to demonstrate compliance with SCGs.

The following components of the SVE system will be monitored:

1. The intake prior to the carbon and the exhaust after the carbon will be monitored with the PID at the start of site remediation, at the calculated middle of the expected life of the carbon based on the manufacturer's specifications for the carbon, and several days before the calculated end of the life of the carbon. If any effluent sample results indicate an increase in the concentration of volatile organic compounds, then the system will be shutdown immediately and this condition will be corrected before the system is restarted. These findings will be reported to the NYSDEC.
2. Condensate that collects in the moisture separator will be sampled via EPA method 8260 prior to disposal to determine the required disposal method. This condensate will be stored in drums until the proper disposal. The disposal method will be approved by the NYSDEC prior to disposal.

6.7.1 SVE Unit Monitoring and Termination Criteria

As the operation of the SVE unit progresses, the PID and Tedlar bag laboratory data will be plotted versus time of operation on graphs. Once the levels of total VOCs in the SVE wells decreases to a near constant or asymptotic concentration, operation of the system will be suspended. An asymptotic condition will be defined as three consecutive quarterly concentrations with a net decrease of 10 percent or less of total VOCS. Graphs of the concentration of total VOCs versus time will be compiled after each round of monthly monitoring.

A soil samples will be collected in the vicinity of DW#1, LP#2, FD#1 and FD#2 and analyzed via EPA method 8260. If the concentration of volatile organic compounds in these samples do not exceed the NYSDEC TAGM Cleanup Objectives, the system will remain off and the cleanup of the unsaturated zone will be deemed complete.

The SVE also serves to capture off-gassing contaminants from the AS system. Therefore, aside from the criteria described above, the SVE system will remain in operation as long as the AS system described in the next section is in operation.

6.7.2 AS System Monitoring and Termination Criteria

Once the SVE/AS systems are placed in full operation, the five perched water monitoring wells will be sampled on a quarterly basis and analyzed via EPA method 8260. Graphs of the concentration of total VOCs versus time will be compiled after each round of monitoring. The system will be kept in operation until the concentration of tetrachloroethene and its degradation products meet the water standards for each compound. Specifically, the SVE/AS system will operate until the on-site and perched water meets the New York State Standards, Criteria, and Guidance (SCGs), or the NYSDEC concludes that further operation of the system is no longer effective.

The AS/SVE system will remain in operation until the water samples from the compliance wells indicate one of the following conditions: 1) they meet the SCGs for tetrachloroethene and its degradation products; 2) the data shows that tetrachloroethene and its degradation products have reached an asymptotic condition and the AS/SVE systems are no longer effectively removing the contaminants of concern; or, 3) the on-site down gradient perched water contamination is at or less than the up-gradient perched water contamination at the time of re-evaluation.

7.0 Project Schedule

The NYSDEC will be notified ten (10) business days prior to the start of work at 218 Lakeville Road. The following preliminary schedule is proposed for the phased work plan:

Approval of IRM work plan by NYSDEC	December 17, 2000
Install piezometers and perform air sparging pilot test	completed
Excavation of LP#2 and DW#	completed
Off-Site sampling – second round	completed
Submit design of SVE systems for soil remediation	completed
Install SVE system	December 1, 2000
Begin operation of SVES	December 18, 2000
Monthly sampling of emissions from SVES begins	December 30, 2000
Quarterly perched water sampling begins	February 15, 2000
Submission of monthly progress reports begins	December 1, 2000

8.0 Health and Safety Plan

Described below are the Anson Environmental Ltd. (AEL) project health and safety requirements, responsibilities, and procedures to protect workers and the surrounding community during site remediation of Imperial Cleaners. The Health and Safety Plan will ensure that all work performed on the project, both on and off site, is in compliance with Occupational Health and Safety Administration standards, criteria and guidelines.

The purpose of this portion of the remedial investigation is to determine the areas of on-site and off-site contamination. This Health and Safety Plan is designed to protect on-site workers and to mitigate the potential of off-site releases. As part of this plan, access to the areas of concern will be restricted and ambient air monitoring will be performed at the location of soil disturbance, downwind and at the site perimeter to minimize the potential for possible on-site and off-site exposure.

The exposure pathways for an individual person depend on:

-source of contamination
-environmental media contaminated and transport mechanisms
-point of exposure
-route of exposure
-receptor population

Although the exposure pathways may change over time, the pathways that currently exist at the site include ingestion of contaminated perched water. Since the perched water is not a source of drinking water, irrigation water or process water, it is unlikely that this contaminated water will impact local residences or workers.

No known exposure pathways of concern between the contaminated soils and perched water and flora and fauna exist. It is unlikely that plant and animal species will be exposed to site-related contaminants.

During site remediation, the volatile organic compounds will be removed from the soil and perched water. These compounds will be filtered from the emissions from these remedial systems. The emissions will, at least, meet the Clean Air Act Amendments and not impact workers or surrounding residences.

8.1 Requirements

The requirements for worker health and safety are based on the following:
-The Standard Operating Safety, U.S. Environmental Protection Agency (EPA), Office of Emergency and Remedial Response.
1. The Occupational Safety and Health Administration (OSHA) Regulations, 29 CFR Parts 1910.120 and 1992.
2. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, NIOSH, OSHA, USCG and EPA.

3. Superfund Amendments Reauthorization Act (SARA), Title I, Section 126.

8.2 Applicability

The protection of workers', subcontractors' and community members health and safety and the environment are major concerns during remediation at the Imperial Cleaners property. Personnel must be protected from the risk of incurring illness or injury during the field investigation at the site. Since each and every safety hazard associated with the site cannot be anticipated, precautions will be taken to prevent illness or injury to workers during the project. Based on these considerations, this health and safety plan will be applicable for each phase of the FRI at this site as described in this work plan. The implementation of this plan will be based on the judgement of the Project Manager as described in the work plan.

8.3 Site Specific Information

The Imperial Cleaners site is a commercial building located in the Village of Lake Success, New York. The principal areas of concern are the exterior drywells, soil beneath the paved lot and perched water. Each of these areas of concern will be addressed during site remediation as identified in Section 4.0 of this report.

8.4 Hazard Characterization/Identification

The primary concern at the site is to protect the workers from contaminated subsurface soils and water beneath the site. During this portion of the investigation, exposure to a potential source of contamination is limited. Ambient air monitoring will be performed during any soil disturbance procedures (soil borings) and any field operations that warrant it. The health and safety officer and/or field project manager will discuss the chemical exposure concerns for the site with all field personnel at the beginning of each workday.

Each day that fieldwork is to be performed, AEL personnel and subcontractors will be made aware of the chemical compounds that may be present on-site. The health and safety symptoms of exposure to those chemical compounds will be discussed. Workers on-site the previous day will be interviewed to see if they experience any of the symptoms of exposure.

8.5 Potential Exposures

The surrounding residences and workers in adjacent businesses could be exposed to contaminants during the vacuuming of the contaminated soils from the drywell and leaching pool. A Photoionization Detector (PID) will be used to monitor the total concentration of volatile organic compounds in the air down wind from the drywell and leaching pool during the cleanout of each.

To address the fugitive emissions, "TAGM-Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Site" real time particulate monitoring and volatile organic compound monitoring will be performed. This document is in Appendix 7 of this work plan.

The particulates will be monitored continuously downwind, upwind and in the work area. If the downwind particulate level is 150 micrograms per cubic meter or greater than the upwind particulate level, then dust suppression procedures will be employed. Particulate monitoring will be performed using a MIE (Monitoring Instruments of the Environment) Airborne Particulate Monitor, Model PDR1000AN, Serial Number 3391. This instrument is factory calibrated annually.

The concentration of total volatile organic compounds will be monitored downwind of the work area. This continuous monitoring will determine if the concentration of volatile organic compounds exceeds 5 parts per million of total volatiles. If this concentration is reached, work activities will be halted until provisions of a "Vapor Emissions Response Plan" will be implemented. This plan is in the appendix of this work plan.

All readings for the particulate monitoring and volatile organic compound monitoring will be recorded and made available for NYSDEC and NYSDOH personnel to review.

In addition, tetrachloroethene vapor monitoring badges will be installed inside the four stores that lease space in the 218 Lakeville Road shopping center. These badges will be installed prior to beginning excavation of LP#2 and DW#1. At the completion of that excavation, the badges will be removed and submitted for analysis by the manufacturer. This monitoring technique will determine the impact of the excavation on the indoor air quality of these shops.

8.6 Level of Protection

Level of protection during the field investigations will be Level D and will be upgraded, if conditions require.

Potential exposure to contaminants will be considered on a daily basis during the investigation. Therefore, the work area will be secured to prevent unauthorized site access. Also, disposable gloves will be worn during any contact with any medium being sampled on the property.

8.7 Site Personnel

The project will require the interaction of government agencies (EPA), contractors, site facility operators and technical specialists. The project team will be composed of AEL and various subcontractors. The Health and Safety Plan will be implemented during all field operations performed on the property. The Field Operations Manager will be

responsible for implementing safety precautions and procedures during all field activities/sampling phases.

8.8 General Work Practices

The following general health and safety requirement will apply to all persons working at the site:

1. All personnel working on the site remediation team shall read the Health and Safety Plan. A copy of the Acknowledgement Form is provided at the last page of this work plan.
2. No employee will be allowed in the active field investigation areas without the prior knowledge of the field project manager.
3. All personnel involved in the investigation at the site will notify the field operations manager of any unsafe conditions or activities.
4. Standard hygiene practices will be implemented such as no smoking, eating or drinking during site investigative work activities and require a thorough washing of hands and face prior to smoking, eating or drinking. At all times, personnel should perform investigative activities from upwind directions.
5. Workers will avoid unnecessary contamination such as walking through, sitting on, leaning on, or kneeling in areas that are known or suspected to be hazardous.
6. All site personnel shall observe their partners for any signs of adverse effects associated with the work activity and will inform their partner or supervisor of any unusual signs or symptoms that they are experiencing themselves.

8.9 Orientation and Training

Each member of the field investigation team has completed the 40-hour training course required by the Occupational Safety and Health Administration for personnel working at hazardous waste sites. Each field team member is trained and experienced in the standard field sampling techniques and procedures to be utilized in this project.

Each person who may be required to use respiratory protection has been medically approved, trained and fit tested with a NIOSH approved respirator appropriate for the conditions likely to be encountered. In addition, each field team member participated in an orientation session prior to commencing work at the site. The orientation will include the following:

-Project goals and objectives
-Overview of the Health and Safety Plan
-Health and safety requirements and procedures.
-Chemicals contaminating the site and their properties
-Potential health and safety hazards.

-Safe sampling procedures
-First aid and emergency procedures
-Use of respiratory projection and respirator fit testing
-Use of protective clothing.
-Decontamination procedures
-Waste disposal procedures.

8.10 Monitoring Equipment

The principal forms of chemical contamination at the site are believed to be known and are of generally low hazard levels if appropriate precautionary measures are used. However, routine monitoring for health and safety purposes will be performed during all site activities.

Monitoring equipment, including particulate meter and PID will be operated, maintained and calibrated each working day in accordance with the manufacturer's instructions and AEL's quality assurance procedures. Organic vapor monitoring will be conducted during field activities. Should contaminant levels indicate high hazard potential, operations will be discontinued until situation is evaluated.

8.11 Injuries

Injured or over-exposed person will be removed from the area immediately. Where applicable, first aide will be administered and/or an emergency rescue team called. Depending on the nature of the injury/emergency, appropriate notifications will be made.

8.12 Levels of Protection

Four protection levels (A, B, C and D) will be used as benchmarks for selection of personal protection equipment.

Level A requires the highest degree of protection including fully encapsulating, chemical resistant suit with full facepiece, SCBA or supplied air respirator. No situations are anticipated in this investigation that would require this level of protection.

Level B protection requires full chemical resistant clothing with a full facepiece SCBA or supplied air respirator. No levels of VOCs or toxic chemical expected at this site that would require this level of protection. However, provisions will be made to have this equipment available should its use to be determined to be required. Investigative activities that may result in this level of projection being required will not be implemented until the equipment has been transported to the site. Implementation of level B protection shall only be performed when sufficient trained personnel (minimum of two) are available.

Level C protection requires full facepiece, air purifying cartridge-equipped respirator (or a half-face, air purifying cartridge-equipped respirator if specifically approved), and protective coveralls, (Tyvek or full chemical resistant clothing or other protective clothing if specifically approved). Level of contaminants in the study area is not expected to require this level of protection. Activities that significantly disturb the soil or generate dust will be closely monitored to determine if upgrading to this level of protection is appropriate. Sampling and handling of highly contaminated waste or soils on-site could result in potential exposures to where this level of protection is warranted. The decision to require this level of protection will be made on a case-by-case basis. Unknown hazardous conditions suspected of containing risks that have not been identified, as part of this plan shall be investigated with Level C protection.

Level D protection requires standard work clothes, such as protective coveralls, work boots, safety glasses/goggles, and hard hat. This protection level applies to situations in which there is minimal risk of dust generation with subsequent inhalation and dermal risk to hazardous chemicals. It is currently anticipated that this level of protection will be applicable to all investigative activities both on and off-site.

Should ambient air monitoring during the study indicate a need for higher protection levels than those currently in use, implementation of the appropriate level or cessation of all activities, which are generating the excessive levels shall be performed.

In addition, protection and first aid will be provided for common health hazards associated with outdoor work such as poison ivy, insect bites and stings, and ticks. Since ticks are a known disease vector, affected persons are instructed to report tick bites to a physician. Poison ivy contact should be treated immediately. A medical kit for first aid will be available in the filed. Any signs of rashes, inflammation, irritation, or burning sensation will be reported immediately.

8.13 Personal Protective Equipment

All employees at the site will be required to use appropriate protective equipment for protection against potential hazards at the site. Since Level D is anticipated for the field investigation, equipment listed under Level D will be required.

8.14 Emergency Information

8.14.1 Emergency Services and Notification

The emergency procedure will include notifying emergency and other affected personnel and keeping their locations and emergency telephone numbers in a convenient and readily accessible area at the project site. A map (Figure 14) showing the route from the project site to the nearest emergency medical facility will be provided at the project area.

Emergency services for the Imperial Cleaners site include:

Nearest Emergency Medical Facilities
NSUH at Manhasset
Community Drive
Manhasset, NY

Fire Department and Rescue Service
Fire/emergency calls: (516) 671-3730
Other calls: (516) 676-0366

Police Department
Nassau County Police Department
Sixth Precinct
100 Community Drive, Manhasset
Emergency calls: 911
Non-emergency calls: (516) 573-6600

Poison Control Center
General Area Number: (516) 542-2323

8.15 Community Air Monitoring Plan

Real-time air monitoring for volatile organic compounds and particulate levels are the perimeter of the work area will be performed (Appendix 7). The plan includes the following parameters:
-Volatile organic compounds will be monitored at the downwind perimeter of the work area on a continuous basis. If total organic vapor levels exceed 5 ppm above background, work activities must be halted and monitoring continued under the Vapor Emissions Response Plan. All readings will be recorded and be available for State (DEC and DOH) personnel to review.

This plan will be implemented during the installation of extraction and sparge wells as well as during trenching to install the underground piping. This plan was also implemented during the excavation of DW#1 and LP#2.

8.15.1 Vapor Emission Response Plan

If the ambient air concentration of organic vapors exceeds 5 ppm above background at the perimeter of the work area, activities will be halted and monitoring continued. If the organic vapor levels decrease below the 5-ppm above background, activities can resume. If the organic vapor levels are greater than 5 ppm over background but are less than 25 ppm over background at the perimeter of the work area, activities can resume provided the organic vapor level 200 feet downwind of the work area or half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm above background.

If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shut down. When work shutdown occurs, downwind air monitoring as directed by the Safety Officer will be implemented to ensure that the vapor emissions do not impact the nearest residential or commercial structure.

8.15.2 Major Vapor Emission

If total VOC levels greater than 5 ppm over background are identified 200 feet downwind from the work area or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted.

If, following the cessation of the work activities, or as a result of an emergency, organic levels persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the work area, then the air quality must be monitored with 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If efforts to abate the emission source are unsuccessful and if the following levels persist for more than 30 minutes in the 20-Foot Zone, then the Major Vapor Emission Response Plan shall automatically be placed in effect if the organic vapor levels are approaching 5 ppm above background.

If the VOC levels are greater than 10 ppm above background in the 20-Foot Zone, the major vapor emission response plan shall be implemented immediately.

8.15.3 Major Vapor Emission Response Plan

Upon activation, the following activities will be undertaken:

-All Emergency Response contacts as listed in Section 6 of the Health and Safety Plan will go into effect.

-The local police authorities will be contacted immediately by the Safety Officer and advised of the situation.

-Frequent air monitoring will be conducted at 30-minute intervals with the 20-Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the safety officer.

8.16 Exposure Assessment

The exposure assessment evaluation will be submitted in a report at a later date.

9.0 Quality Assurance Project Plan

This Quality Assurance Project Plan (QAPP) has been prepared in conjunction with and to accompany the Imperial Cleaners-218 Lakeville Road Remediation Work Plan. It specifies quality assurance/quality control (QA/QC) measures, functional activities and policies that will be implemented in order to achieve the data quality objectives of this environmental investigation. This document was prepared to adhere to the U.S. Environmental Protection Agency's report entitled "Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans"(EPA-600/4-83-004). A review of the New York State Department of Environmental Conservation (NYSDEC) memorandum "Guidance for Review of Work Plans and Quality Assurance Project Plans" was conducted to make sure that this Quality Assurance Project Plan (QAPP) includes and adequately address QA/QC issues so that QA approval will be received. Prior to deviations from the protocols set forth in this QAPP, the designated NYSDEC QA/QC officer will be notified.

9.1 Project Background

The Imperial Cleaners site is located at 218 Lakeville Road, Lake Success, New York. There has been a dry cleaning operation on-site for at least 30 years. The dry cleaning has ceased and the facility is currently operated as a drop station only. Field investigations to determine the extent of the soil and perched water contamination have been conducted. This QAPP is designed to facilitate the implementation of the remediation work plan.

9.2 Project Description

The objectives of this Work Plan are to implement remedial alternatives for the on-site soil and perched water contamination. The remedial alternatives include limited soil removal and installation and monitoring of soil vapor extraction and air sparging systems.

9.3 Project Organization and Responsibility

Fritzi Mazzola Gros-Daillon of Anson Environmental Ltd. (AEL) will be responsible for ensuring the collection of valid data, in a precise and accurate manner, by personnel under her direction. The QA official will be responsible for conducting unannounced field visits to observe data collection procedures and for periodic review of data generated. The QA official will also be responsible for review of project deliverables.

Dean Anson II will be the Project Manager for the site. He will serve as Field Manager and will be responsible for coordination of field activities, technical supervision and execution of the field effort. John Tegins will serve as Field Coordinator. Dean Anson will also serve as Health and Safety Officer. In this capacity, his responsibilities will be

implement the requirements of the Health and Safety Plan and ensure that all team members meet the training requirements for the project.

The contractors and laboratories that will be used on the Imperial Cleaners project are identified below along with their responsibilities on the project.

Contractors Name	**Responsibilities**
Brookside Environmental	vacuum DW#1 and LP#2, contaminated waste disposal
Aquifer Drilling and Testing	install well into Upper Glacial Aquifer
Land, Air and Water Environmental	install SVES wells
Brookside Environmental	disposal of liquids and contaminated soils
H2M Laboratories	laboratory analysis of soil and perched water samples
Environmental Testing Laboratories	laboratory analysis of air samples from SVES

Aquifer Drilling and Testing, Land, Air and Water Environmental Services and Brookside Environmental are contractors that have been used to perform work on NYSDEC Inactive Hazardous Waste Disposal Sites and are very qualified to perform their work assignments on the Imperial Cleaners investigation.

H2M Laboratories of Melville, NY, a New York State certified laboratory, would be responsible for performing the soil and perched water sample analyses. Environmental Testing Laboratories of Farmingdale, NY would be responsible for the analysis of the air samples.

Anson Environmental will construct the SVE/AS systems once the wells are installed. The equipment will be installed by AEL and the electrical connections will be made by a licensed electrician.

Reports and findings of the Imperial Cleaners site investigation will be forwarded to the USEPA, NCDH, NYSDEC and the property owner.

9.3.1 Information Supplied to Bidders

The information in Exhibits 1 and 2 that appear at the end of section 9 of this work plan was supplied to Brookside Environmental, Aquifer Drilling and Testing and other bidders.

9.4 Data Usage and Data Quality Objectives

9.4.1 Data Usage

Data collected for this project will be used to monitor remediation of the on-site contamination.

9.4.2 Data Quality Objectives

It is the objective of this project to ensure that all measurements be made so that the results are representative, precise, accurate, complete and comparable. Procedures to meet this objective in the field are included in Section 9.5 of this report. Within this section, sampling, decontamination, and field measurement procedures are described which will ensure the QA/QC of all data collected.

The above objectives apply to laboratory sample analysis as well. To meet these objectives, standard methods will be applied. Analytical procedures outlining the QA objectives for laboratory methods to be used will be forwarded to the NYSDEC upon receipt from the laboratories.

9.4.3 Data Usability Summary Report (DUSR)

The laboratory analytical data will be reviewed to determine if it meets the project specific criteria for data quality and use. The data will be reviewed by Environmental Standards, Inc., of Valley Forge, Pennsylvania, will conduct a full data review of the Category B deliverable package. Upon completion of that review, the data usability package will be submitted, along with any comments, to the NYSDEC's Division's Quality Assurance Unit.

The DUSR will be developed by reviewing and evaluating the laboratory data package for the following:

1. Completeness of the NYSDEC ASP Category B deliverables.
2. Review holding times for each sample.
3. Review of protocols and specifications for the QC data (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, replicate analyses, laboratory controls and sample data).
4. Evaluation of generated data for compliance with analytical protocols.
5. Evaluation of raw data to determine if it agreed with data summary sheets and QC verification forms.
6. Evaluation of data qualifiers to determine if they are correct.

Once the DUSR has been completed, an assessment will be made of the usability of the data by reviewing the data deficiencies, analytical protocol deviations and QC problems. The effect of these deviations on the validity of the data will be made and an assessment made of whether re-sampling or analysis is required.

All data qualification we be documented following the NYSDEC ASP '95Rev. guidelines.

9.5 Sampling and Analytical Procedures and Protocol

This phase of the project, as fully described in the Work Plan, entails the collection of perched water and SVES air emission samples. Soil samples will be procured using a split spoon sampler and/or acetate liners with Geoprobe rods, if necessary. Perched water samples will be collected using dedicated polyethylene bailers and air samples will be collected with Tedlar bags. A description of each sampling method to be used for the collection of samples is addressed in the following sections.

9.5.1 Soil Sampling/Manual Collection

Soil samples will be collected around the drywells using Geoprobe sampling rods. The sampling will be conducted as follows:

(1) The clear acetate liner will be inserted into the large bore sampler and driven to a depth of 2-4 feet using the Geoprobe rig.

(2) The sampling rod will be removed from the boring and the sample will be removed intact within the acetate liner.

(3) The liner will be sliced open and the soil scanned immediately using the PID. The PID reading, soil composition, structure, consistency, color and soil condition will be recorded. The sample jars will be filled immediately with representative material and sealed to prevent evaporation of soil moisture. The samples will be stored on ice in a cooler. Labels will be affixed to the sample jars bearing the job number, date, time, initials of sampler, boring number, sample number, depth of penetration and length of recovery.

(4) All samples collected will be retained and preserved for future analysis (if necessary).

Soil samples from each boring will be selected for analysis. The sediment sample from the drywell will be collected with a stainless steel hand auger, decontaminated between sampling events and handled in the same technique as outlined above.

After each soil sample bottle is filled, it will be appropriately labeled and put in an ice-filled cooler for delivery to the laboratory for analysis. Completed chain-of-custody form will accompany all samples. The sample information will be recorded in the hydrogeologist's field book. The quality assurance of field sampling and sample custody is included.

The soil samples will be analyzed by EPA Method 8260 for volatile organic compounds and metals. Analytical procedures, calibration of equipment, calibration frequency and matrix specification detection limits corresponding to this method are included in the appendix. The purpose of this analysis is to determine if there are measurable quantities of those organic compounds in the soil, which are known to have been used on-site. These compounds are manmade and would not be expected to occur naturally in the soil.

Soil screening for this project will be performed with a PID calibrated to provide direct readings in the filed. Calibration procedures from the instrument's instruction manual are included in the appendix. Frequency of calibration is based upon manufacturer's recommendations.

9.5.2 Perched Water Samples

A round of perched water samples will be collected from the five existing monitoring wells. All water sampling will follow strict USEPA QA/QC protocols. Prior to sampling the wells, a 4-foot by 4-foot plastic sheet will be placed at the foot of each well. This will be the designated work zone for the sampling event. All sampling equipment will be placed on the sheet to minimize the possibility of contaminating sampling equipment from the surrounding surfaces. Upon opening the monitoring well, the PID will be used to screen for total volatile organic contaminants in the ambient atmosphere and in the headspace of the well. Any readings will be recorded and compared to ambient background readings. Ambient air sampling for this project will be performed with a PID calibrated to manufacturer's instructions.

The following procedure will be followed for water sampling:

(1) Prior to the purging of the wells for sample collection, a synoptic static water level measured to the nearest 0.01 foot in each monitoring well will be taken.

(2) To ensure a representative sample form the monitoring well, purging of the wells is required. The standing water will be purged from the middle of the water column using a Grundfos Redi-Flo2 pump. In general, the water standing in the well casing prior to sample collection will be similar in quality to that in the surrounding aquifer or local groundwater, but it may not be representative.

(3) A volume of water equal to three to five times the volume of standing water in the well will be purged from the well before taking the sample. If the monitoring well has a low yield, standing water will be evacuated until the well is dry and a sample will be collected upon recovery. Wells with high yield can be sampled immediately after evacuation. A dedicated polyethylene bailer will be used to collect the water sample. Prior to the sampling event, sampling equipment shall be decontaminated as outlined above. All water removed during the evacuation process shall be placed in clearly labeled 55-gallon drums and stored on-site pending analysis.

(4) Dedicated, laboratory-cleaned, polyethylene disposable bailers will be attached to dedicated polypropylene rope or nylon line. The sample will be collected from the screen zone. The first bailer volume shall be placed in a pre-cleaned glass jar and used to conduct analytical field tests such as temperature, pH and specific conductivity. The measurements will be recorded in the field book. All field instruments shall be calibrated daily prior to the sampling events. And cleaned between each sampling point.

The water samples shall be collected in laboratory cleaned containers on the second bail. Each round of water samples will be analyzed using EPA method 8260, following

appropriate laboratory protocols for that method. The purpose of this analysis is to determine if there are measurable quantities of volatile organic compounds that have been known to have been used on-site in the water.

One (1) trip and one (1) field blank QA/QC sample will accompany the water sampling per sample day. A trip blank is used in order to determine if outside contamination has been introduced in the course of the transportation of the samples. The trip blank vials are filled in the laboratory using analyte-free distilled/deionized water and will accompany the glassware from the laboratory to the filed and back to the laboratory. The filed blank vial will be filled during the sampling by adding distilled/deionized water to one of the bailers and then filling the empty field blank vials from the bailer. The blank samples will be analyzed for the same parameters as the water samples. Given the limited number of water samples to be collected in this phase of the investigation, duplicate samples will not be collected.

Field tests will include temperature, pH, salinity, and specific conductivity and will be taken immediately upon collection. The pH probe will be field calibrated with a No. 7 buffer solution. The specific conductivity probe will be calibrated in air to zero. Complete calibration procedures are included in the copies of the instrument instruction manuals. A mercury thermometer will be used to measure temperature and will be visibly inspected. The above calibration procedures will be performed each day of water sampling.

The well cap shall be secured and the above process repeated at each water sampling location.

9.5.3 Preparation and Preservation of Sample Containers

Perched water samples will be placed in a cooler provided with ice packs as soon as they are collected. All samples will be delivered the same day.

The scope of the project necessitates that 40 milliliter vial containers be used. The laboratory will provide sample containers. Each sample container will be provided with a label for sample identification purposes. The amount of information will include identification number, time, date, and initials of sample collector. A full chain-of-custody as outlined by the USEPA will accompany all sample containers.

All sample containers will be thoroughly cleaned by the laboratory prior to sampling. The 40-milliliter vials will contain hydrochloric acid (HCl).

9.5.4 Perched Water Level Monitoring

Perched water levels will be obtained from the five existing monitoring wells. Water levels will be taken using an electronic water level indicator. The depth to water will be measure to the nearest 0.01 foot and referenced to the top of the well casing. After use in each monitoring well, the measuring device will be cleaned to prevent cross contamination between wells using decontamination procedures addressed above. A

licensed land surveyor has surveyed the well casings in order to determine the direction of perched water flow.

9.5.5 Field Sampling Quality Assurance

9.5.5.1 Field QA/QC

Blanks will be used to verify the quality of the field sampling results. A field blank will be used to determine the effectiveness of the decontamination of the sampling devices (i.e. bailers and split spoon samplers). Analyte free water will be poured into the device and then transferred to sample containers before use in sampling. Dedicated disposable polyethylene bailers will be used; however, these equipment blanks will be used to ensure that the manufacturer does not introduce contamination.

9.5.5.2 Field Records

All information pertinent to any field activities will be recorded in bound, waterproof field books. Duplicates of all notes will be prepared and kept in a ringed binder. The binder will be stored in a secure place in the office of AEL. Proper documentation will consist of field personnel maintaining records of work accomplished including the items listed below:

-Date and time of work events
-Weather
-Purpose of work
-Description of methods
-Description of samples
-Number and size of samples
-Description of sampling
-Date and time of collection of sample
-Sample collector's name
-Field observations
-Any field measurements with portable instruments

Each sample collected in the field will be labeled using waterproof ink. Each bottle will be labeled with a number or location, parameter to be analyzed, sampling time and date.

Data obtained from borings shall be recorded in the field notebook and shall include the following:

-name, location and job number
-date of boring
-boring number
-surface elevation (if available)
-sample number and depth
-method of advancing sampler, penetration and recovery lengths
-type and size of sampler
-PID reading during field screening
-description of soil
-thickness of layer

-depth to water
-type of equipment used
-size of casing, depth to well
-blow counts

9.5.6 Decontamination of Field Equipment

Proper decontamination protocols will be followed during field activities in order to minimize the possibility of introducing contaminants into non-contaminated areas of the site and to ensure that samples and data collected are representative of the actual conditions.

9.5.6.1 Equipment Requiring Decontamination

The field equipment and sampling devices that require decontamination include:

1. Drilling Equipment-paying particular attention to down-hole tools, back of the drilling rig and drilling rod racks.
2. Sampling Equipment-split spoons, trowels, pumps and hoses, stainless steel bailers, temporary well screen and casing, water level measuring device, etc.
3. Personnel Protective Equipment-respiratory protection and protective clothing.

9.5.6.2 Decontamination Procedures

The water level meter, sampling rods and miscellaneous tools will be decontaminated according to the following procedure:
-non-phosphate detergent and tap water wash
-tap water rinse
-distilled/deionized water rinse
-total air dry

Field decontamination for drilling equipment, split spoons, temporary well screening and casing, and other sampling equipment will consist of steam cleaning and/or manual scrubbing to remove foreign material and steam cleaning inside and out. These items will then be stored in such a manner as to preserve their clean condition.

Field decontamination for pumps and hoses shall consist of manual scrubbing to remove foreign materials followed by a non-phosphate detergent scrub and flushing.

Field personnel protective equipment decontamination procedures shall consist of the minimum decontamination stations outlined in the Health and Safety Plan prepared for this project. The contractor will prepare a decontamination station whose perimeter is diked to prevent ground contamination from wash waters running out of the area. All drilling equipment shall be decontaminated in this zone. Wash waters from equipment requiring decontamination will be contained and stored in 55-gallon drums pending laboratory analyses.

9.6 Sample Custody

The purpose of sample custody procedures is to document the history of sample containers and samples from the time of preparation of sample containers through sample collection and analysis. To maintain and document sample possession, chain of custody procedures will be followed. A chain-of-custody form contains the signatures of individuals who have possession of the samples after collection and identification in the field.

A sample is in custody if:
1. it is in your actual possession; or
2. it is in your view, after being in your physical possession; or
3. it is in your physical possession and then you locked it up or sealed it to prevent tampering; or
4. it is in a designated secure place restricted to authorized personnel.

Each person involved with the samples will know chain of custody procedures. A discussion of the various stages of sample custody, transfer of custody and laboratory custody is presented below.

9.6.1 Environmental Sample Chain of Custody

The field sampler initiates the chain of custody procedure in the field and is the first to sign the form upon collection of samples.

The field sampler is personally responsible for the care and custody of the samples until they are transferred and properly dispatched. Sample labels shall be completed for each sample using waterproof ink and packaged to preclude breakage during shipment. Every sample shall be assigned a unique identification number that is entered on the chain of custody form. Samples can be grouped for shipment using a single form.

The record shall be completed in the field so as to indicate: project number, unique sample number, sample location, sampling date and time, person obtaining the sample and method of sample preservation. The paperwork will be done and checked at an on-site location.

A sample chain of custody form is attached.

9.6.2 Transfer of Custody

A chain of custody record will accompany all samples. When transferring possession of samples, the individuals relinquishing and receiving will sign, date and note the time of the transfer. This record documents transfer of custody of samples wither from the sampler to another person or mobile laboratory or to a permanent laboratory.

Whenever samples are split with a facility or government agency, a separate chain of custody record will be prepared for those samples and marked to indication with whom the samples were split.

9.6.3 Laboratory Custody Procedures

The laboratory utilized will follow a minimum standard operating procedure for documenting receipt, tracking and sample preparation. A full explanation of laboratory procedures is included in the laboratory documentation in the appendix. Sample custody is described briefly below:

9.6.3.1 Sample Custody

1. Shipping or Pickup of Cooler by Client
    a. Cooler packed at lab after contact with client.
    b. Cooler wrapped with evidence tape.
    c. Chain of custody forms filled out by lab personnel.
    d. Client supplied with evidence tape to seal cooler prior to shipment back to laboratory.

2. Delivery of Cooler to Lab
    a. Samplers check for external damage (such as leaking).
    b. Lab signs for cooler from shipper.

3. Cooler Delivery to Sample Custodian
    a. Samplers place cooler in air lock to special process lab.
    b. Sample custodian or assistant removes cooler.

4. Opening of Cooler
    a. Check condition of external seal.
    b. Open cooler.
    c. Remove chain of custody forms, fill out and sign.
    d. Check to see if any samples are broken or damaged
        1. If the samples are broken, note manner of disposal and contact client immediately.

5. Report Sent to Client
    a. Traveler's Way Bill
    b. Final Report
    c. Log-out Sheet

6. Final Steps
    a. Raw data stored on file.

9.6.3.2 Sample Storage

Samples will be maintained in storage in the GC/MS laboratory in a locked refrigerator prior to sample preparation and analysis. The storage refrigerators will be maintained at

4 degrees Celsius. The samples will be stored no longer than the required holding time before analysis. It is the responsibility of the laboratory to properly dispose of samples beyond the holding period.

9.6.4 Field Notebook Chain of Custody

Dedicated field notebooks will be used for the duration of the project. These will be numbered and assigned to field personnel. A log of the notebook number, the personnel assigned to the notebook and the date and time signed out and signed in will be the responsibility of the project manager. Sufficient number of notebooks will be provided.

All field notes during drilling data will be copied and stored in a ringed binder. Sample chain of custody forms will also be retained in the binder.

9.7 Calibration Procedures and Frequency

The in-field analytical instruments to be used in the site investigation include:

Photoionization Air Monitor (PID)
pH meter
Specific conductivity meter
Depth to water measuring tape.

The instruments will be calibrated in compliance with manufacturer's recommended schedule.

9.8 Documentation, Data Reduction, Validation and Reporting

9.8.1 Field and Technical Data Documentation

All information pertinent to any field activities will be recorded in bound, field books. Duplicates of all notes will be prepared each night and kept in a ring binder, at the AEL office. Proper documentation will consist of all field personnel maintaining detailed records of all work accomplished including:

1. date and time of work events
2. purpose of work
3. names and address of people relevant to the project
4. description of all methods
5. description of all samples
6. number and size of samples
7. description of sampling point
8. date and time of collection of sample
9. sample collector's name
10. reference to sit map and/or photographs
11. field observations
12. any field measurements with portable instruments

9.8.1.1 Field and Technical Reporting

During the performance of the project, field and technical data will be assembled and will be made available to those individuals who need the data. Data reported will be as follows:

1. data collected by the field manager
2. data will be reduced by the field manager
3. data will then by reviewed by the project manager

After the data in the field books are checked, the data will be reduced to tabular form and entered into data files. Objective data such as water table measurements will be compiled on a spreadsheet. Subjective data such as boring logs will be included as hard copies.

9.8.1.2 Field and Technical Data Validation

The two levels upon which the field and technical data will be validated will be:

Validated at the time of collection
After data reduction into tables and charts

Inconsistencies will be resolved by reviewing the original data or by discussing the inconsistencies with the field personnel or laboratory performing the analysis.

Where possible, peer review will be used to maximize consistency among field personnel.

9.8.2 Laboratory Data

9.8.2.1 Laboratory Data Documentation

A complete description of the laboratory's standard operating procedures will be submitted upon receipt from the H2M Laboratories.

9.8.2.2 Laboratory Data Reporting

Applicable data presentation and all laboratory reports will conform to full reporting standards including:

1. Laboratory data will be reviewed and approved by laboratory manager.
2. Data presentation will include:
   sample identification numbers used by laboratory,
   Chemical parameters analyzed, report values, and units of measurement,
   Detection limits,
   Data for chemical parameters,
   Results of QA sample analysis, and
   Footnotes if required.

9.8.2.3 Laboratory Data Reduction

Laboratory data reduction and analysis of organic analytes involves relating a "peak area" to the mass of a constituent. This is accomplished using digital computers. The computer software and hardware is designed to allow the analysts to create libraries or files of calibration standards and then compare raw data against these libraries to produce

a report which contains identification and qualification of constituents present in the sample. The analysts manually check the computer-reduced data. The analyses are typed as reports listing the date the sample was received, date collected and date reported.

9.8.2.4 Laboratory Data Validation

Data validation procedures performed internally by the laboratories are based upon the following document as reference:

Technical Directive Document No. HQ-8410-01
"Functional Guidelines for Evaluation of Organic Analysis".

10.0 Citizens' Participation Plan

The NYSDEC Voluntary Cleanup Program requires communication with the local citizens regarding activities performed during the cleanup of contaminated properties. The Citizens' Participation Plan for the Imperial Cleaners site will be performed by the NYSDEC with input from the Volunteer.

11. Certification

It is hereby certified that the design and construction of the Imperial Cleaners remediation system will be performed as specified in this Interim Remedial Measure Work Plan. Changes to the layout or work specified will be described in an as-built report for the AS/SVE systems.

A review of the site conditions and the proposed remedial measures indicates that the proposed remedial measures can achieve the cleanup goals identified in 6NYCRR375-1.10c).

Work will be witnessed by the professional engineer or by a person working under his direction. The New York State licensed professional engineer on this project will be John V. Soderberg, P.E., License Number 49975.

John V. Soderberg, P.E.
Professional Engineer

12/11/00

Date

Figure 2 – Cross-Sectional Diagram of Site Geology.

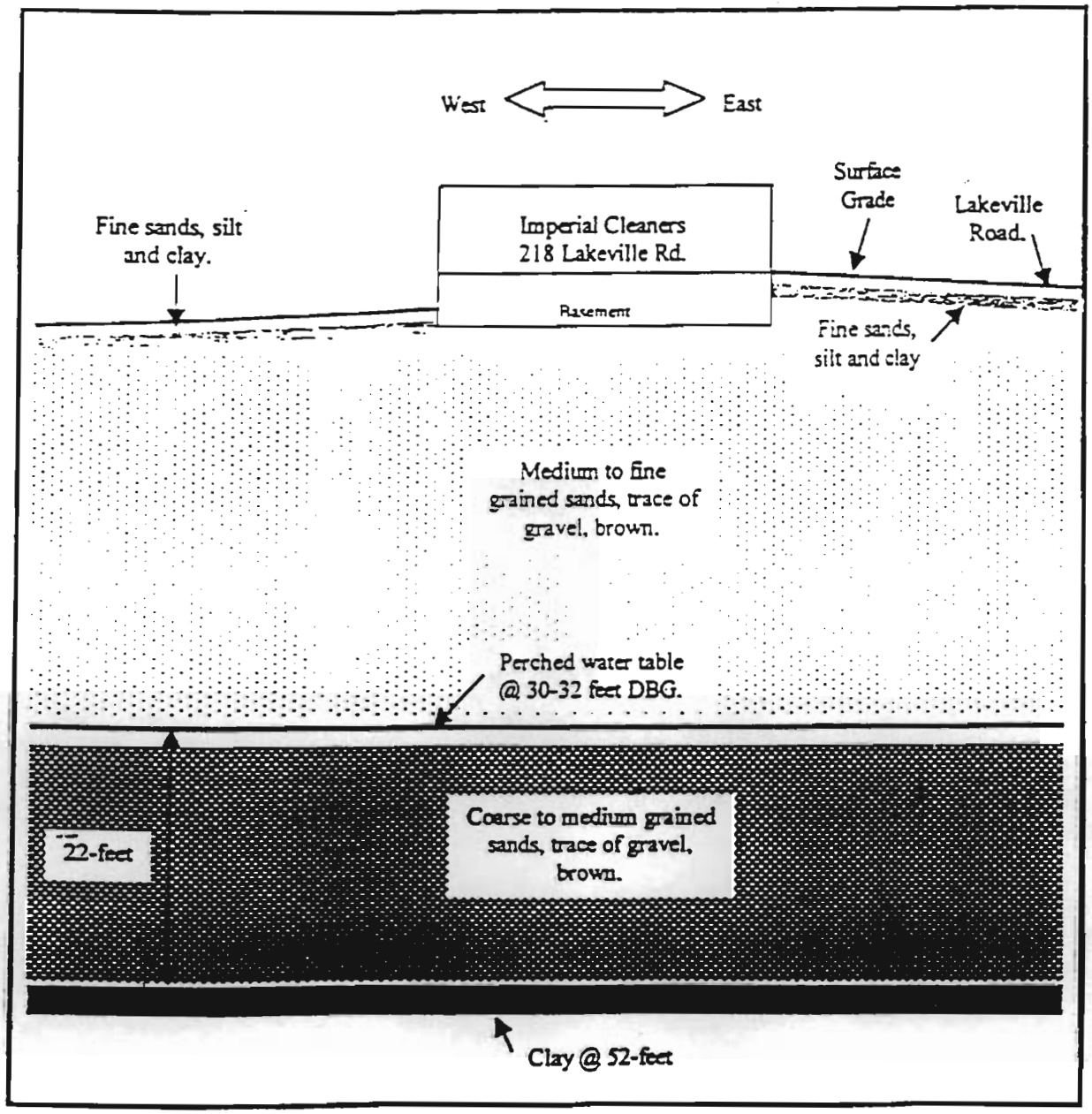
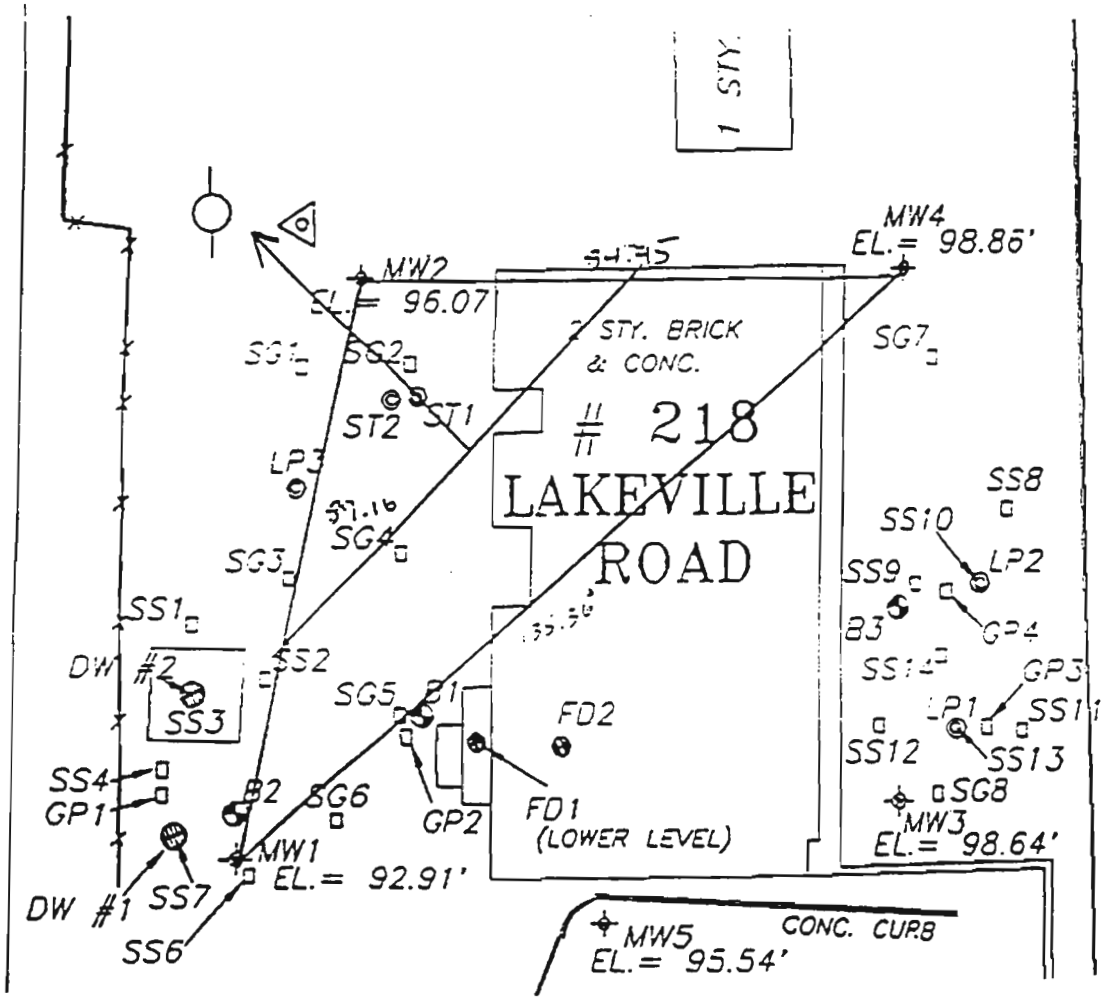
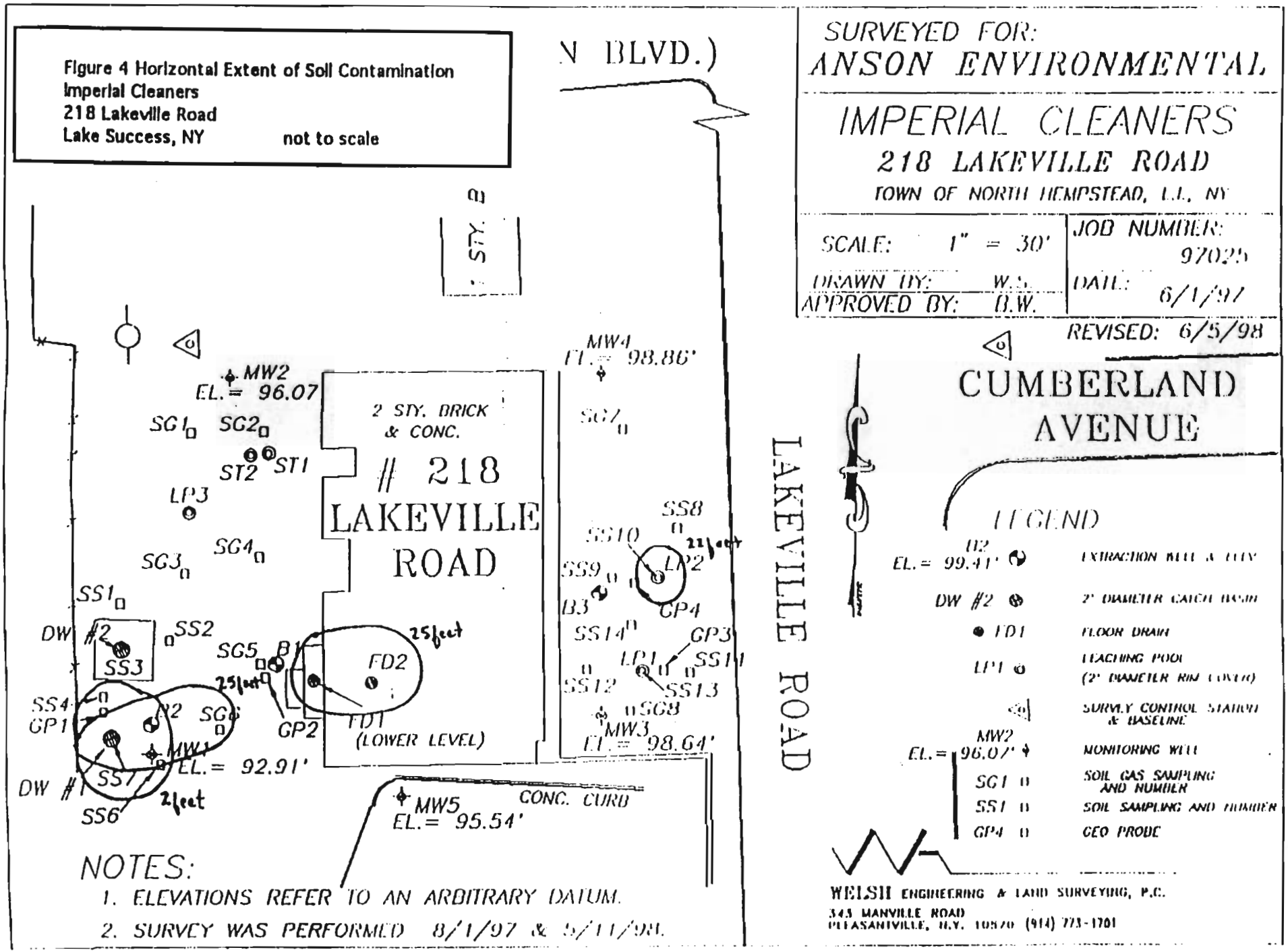


Figure 3 – Direction of Perched Water Flow.



Well #	Depth to Water	Relative Elevation	Head	Corrected Head
MW-1	28.51	92.91	64.40	.16
MW-2	31.83	96.07	64.24	0
MW-3	33.89	98.64	64.75	.51
MW-4	34.42	98.86	64.44	.20
MW-5	30.87	95.54	64.67	.43

Figure 4 Horizontal Extent of Soil Contamination
Imperial Cleaners
218 Lakeville Road
Lake Success, NY **not to scale**



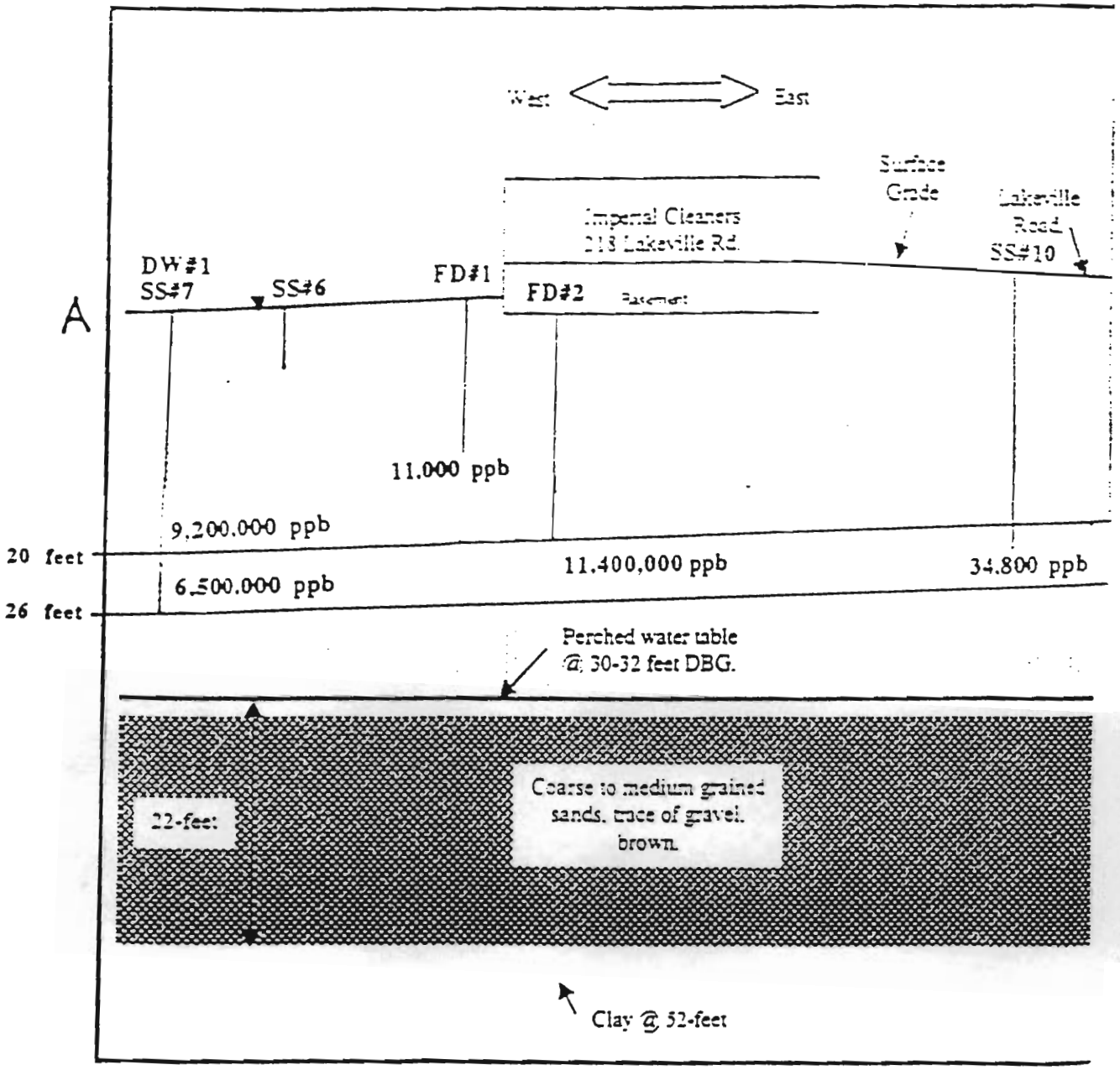
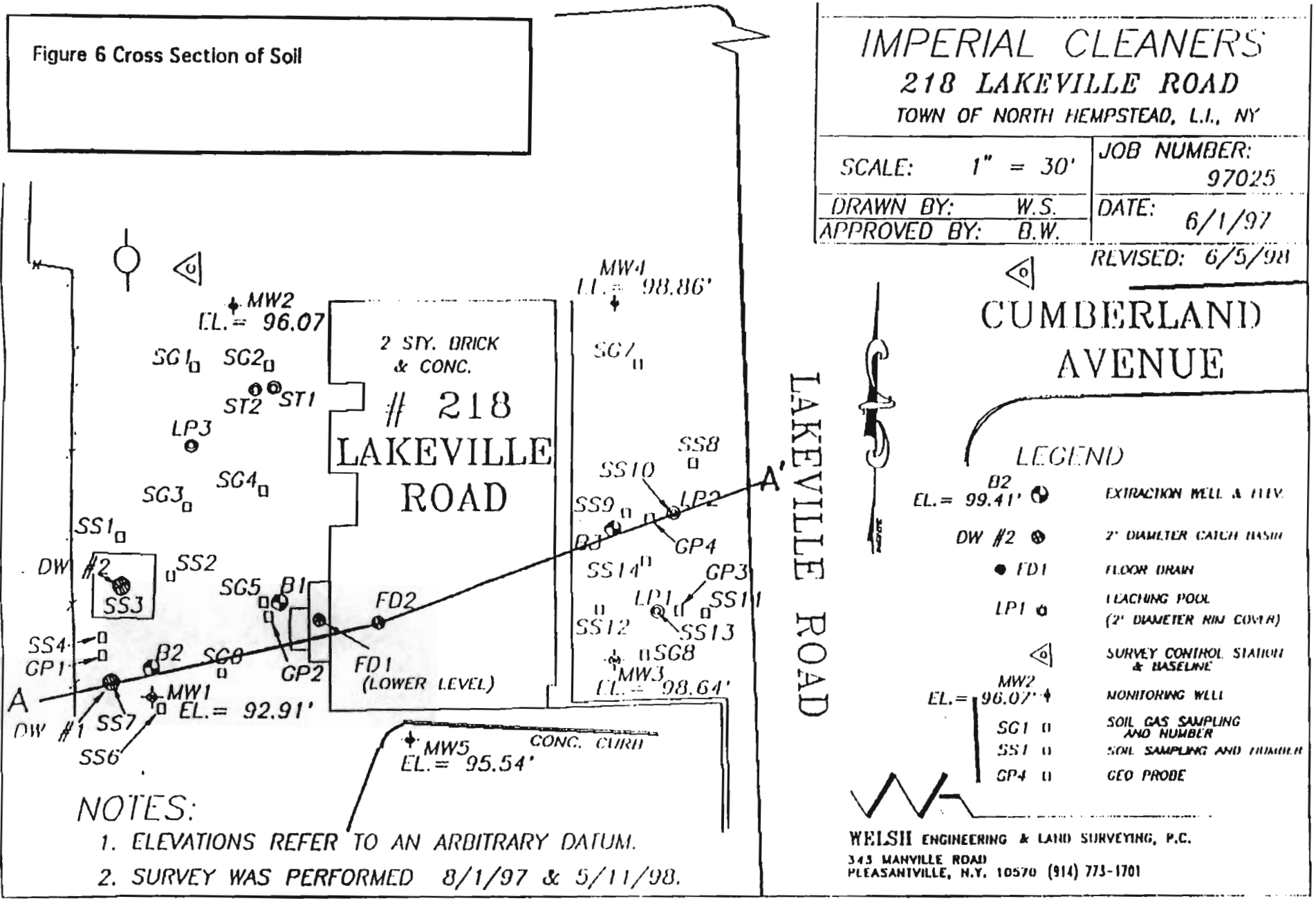


Figure 5 Vertical Extent of Soil Contamination
Imperial Cleaners
218 Lakeville Road
Lake Success, NY not to scale

Figure 6 Cross Section of Soil



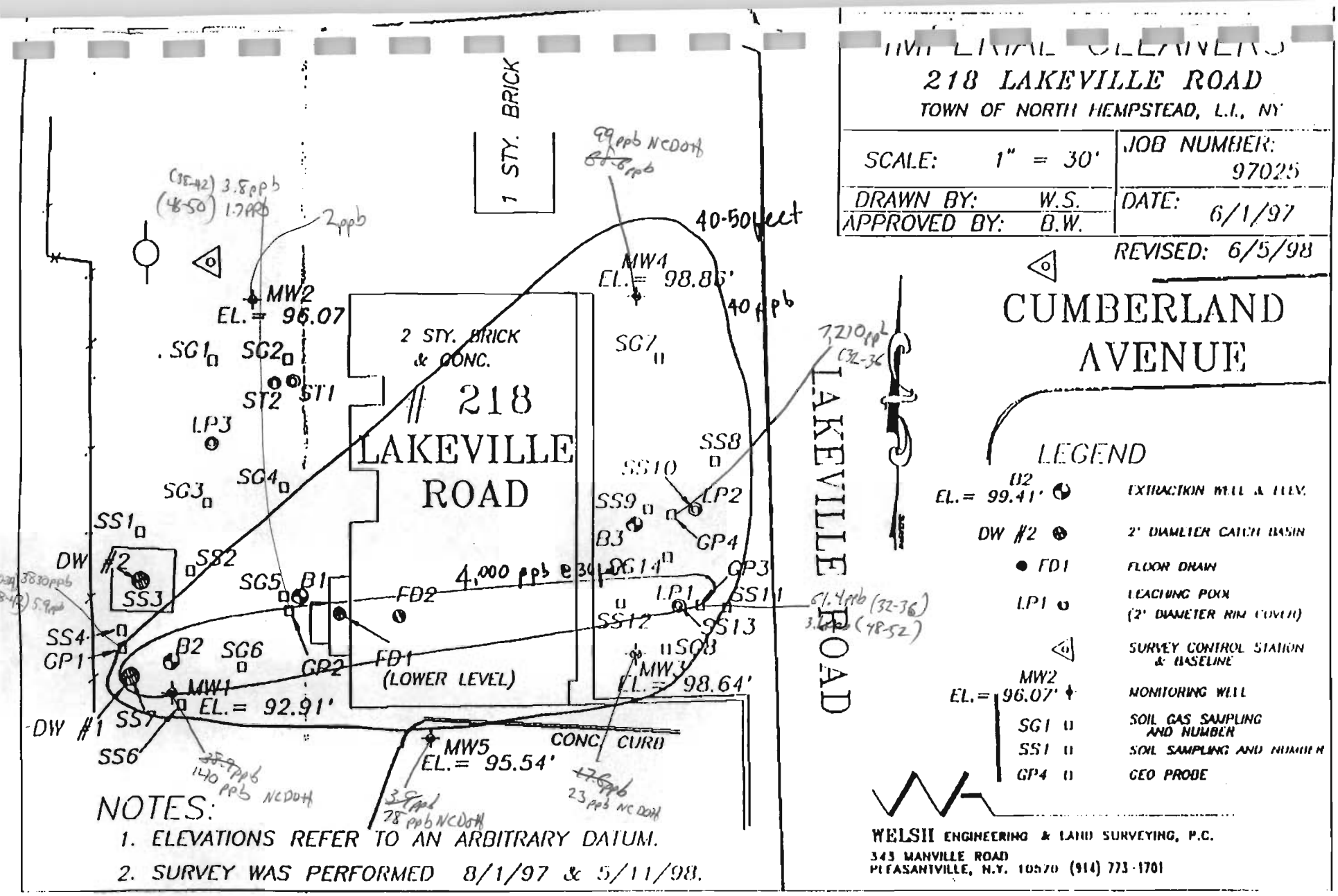
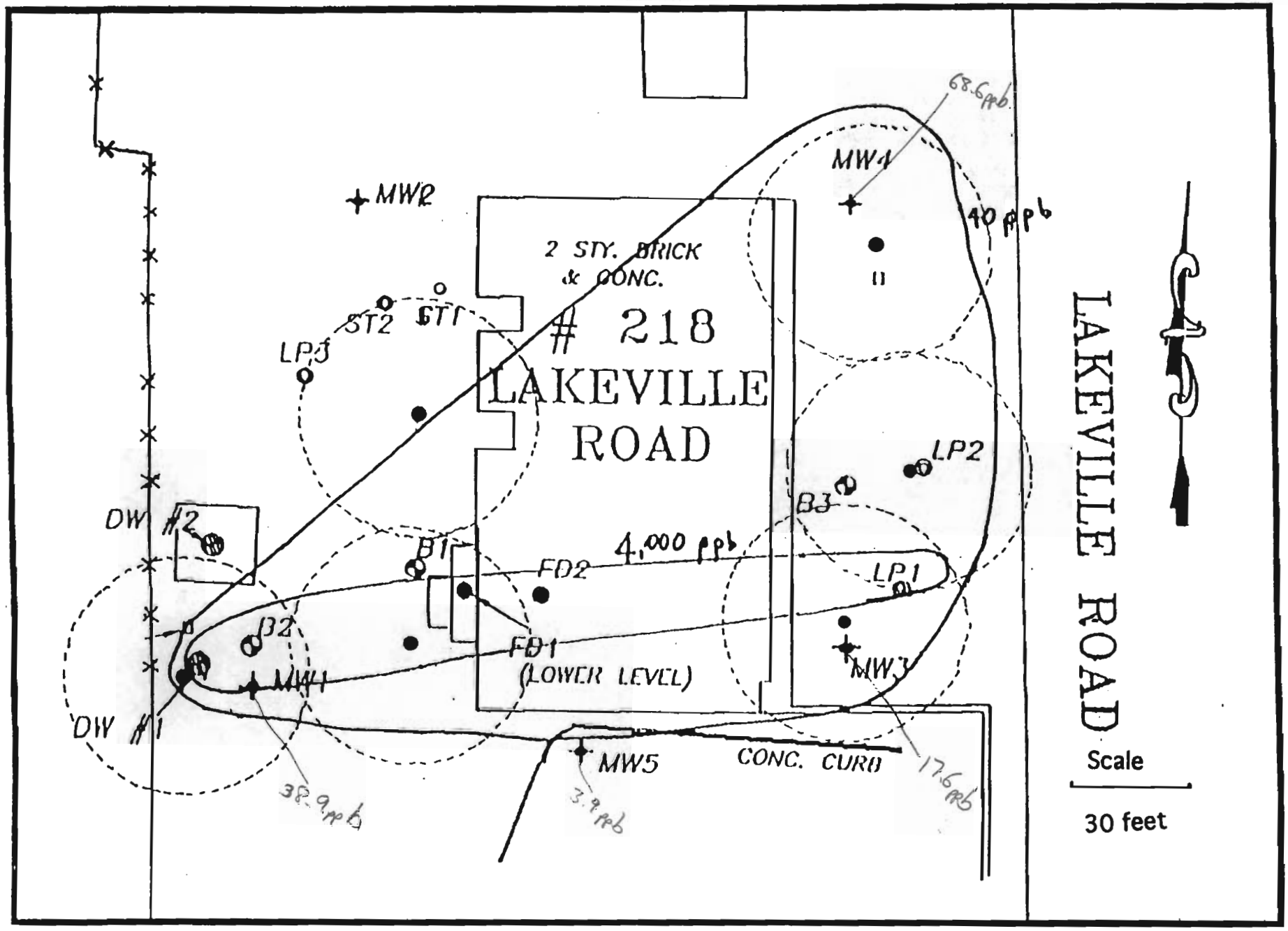


Figure 7 Horizontal Extent of Perched Water Contamination
Imperial Cleaners
218 Lakeville Road
Lake Success, NY not to scale



Radius of Influence for Air Sparge Wells ---------

Figure 8 Air Sparging Well Locations and Radius of Influence

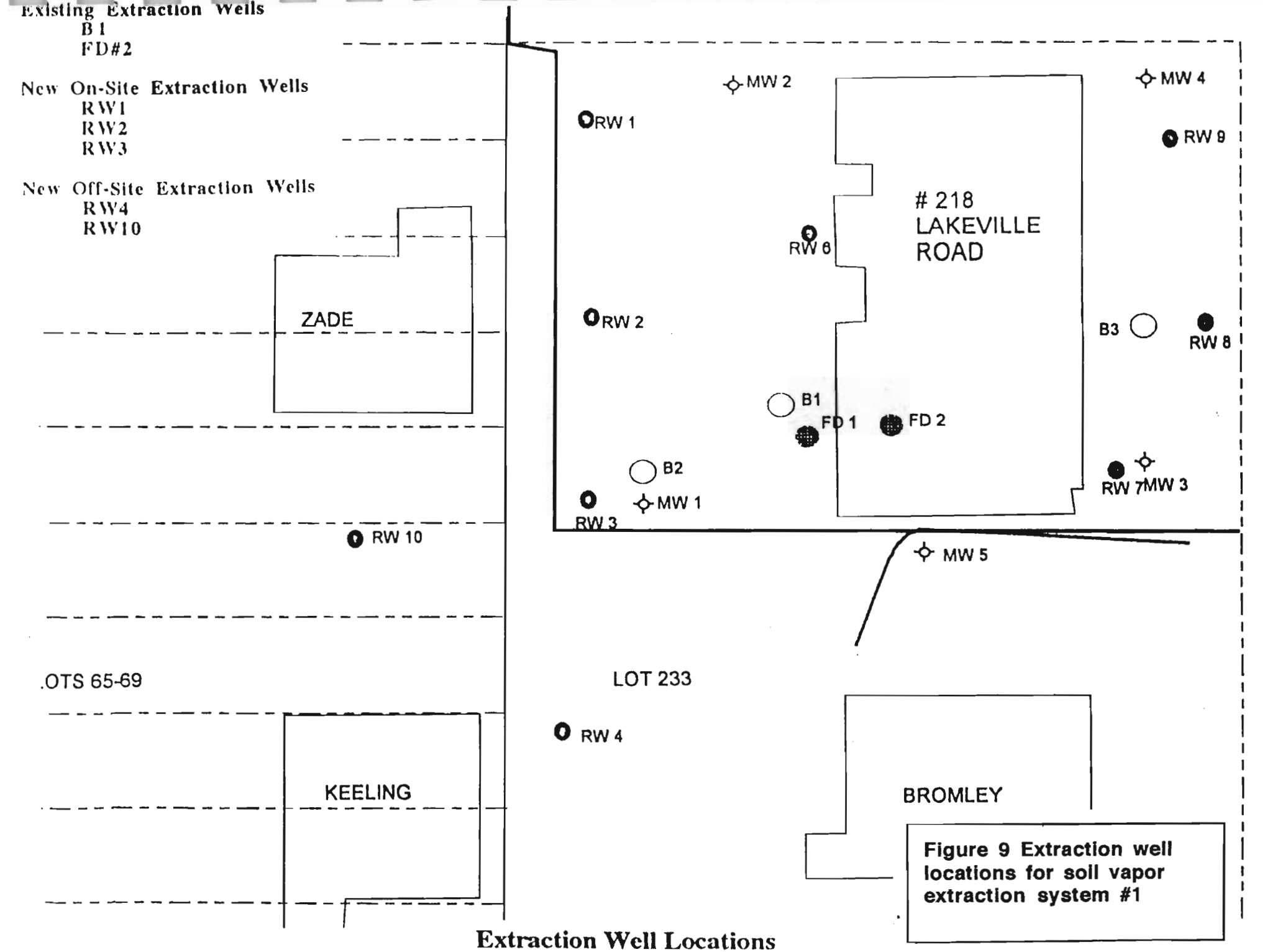


Figure 9 Extraction well locations for soil vapor extraction system #1

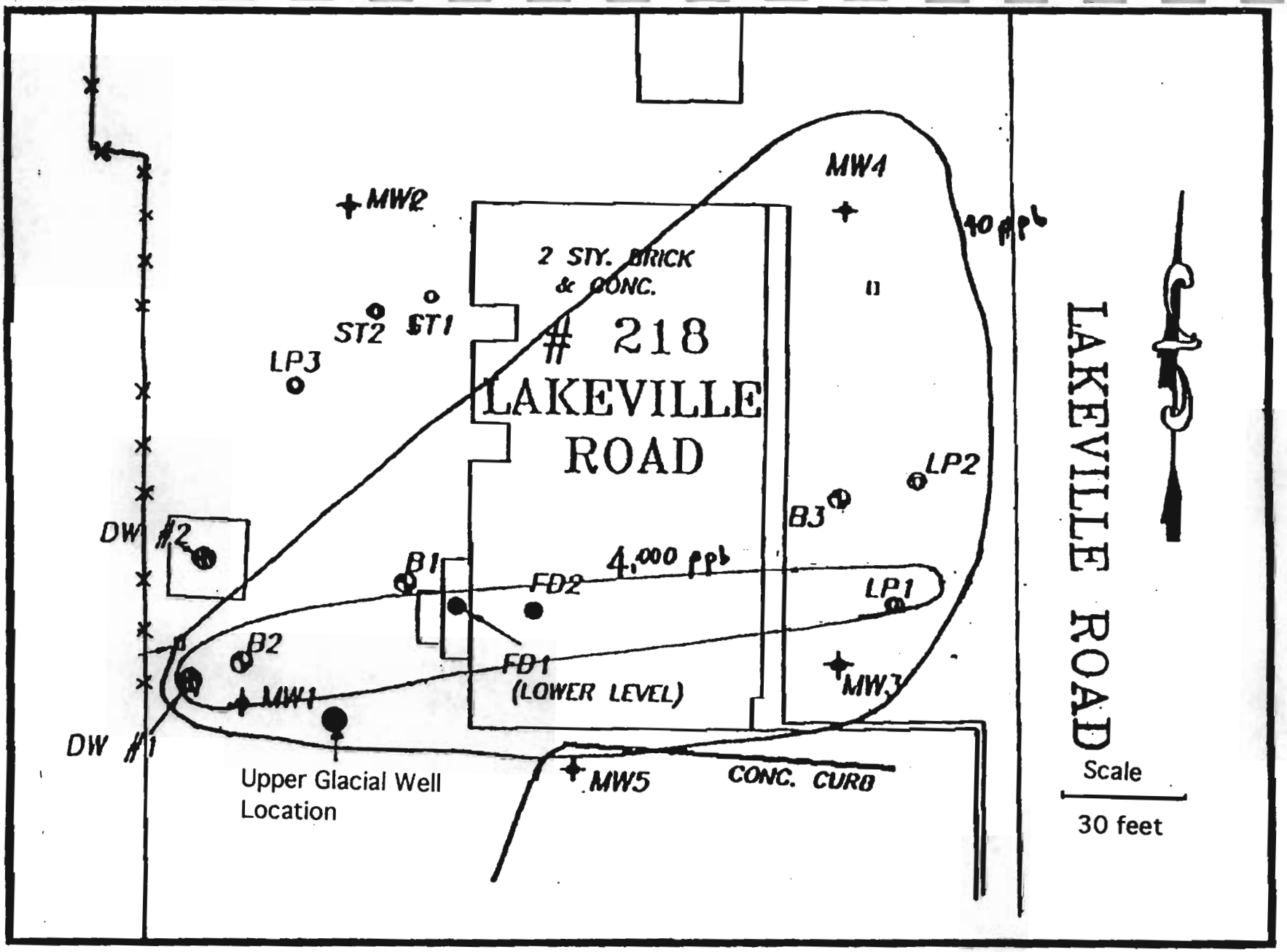


Figure 10 Upper Glacial Aquifer Well Location

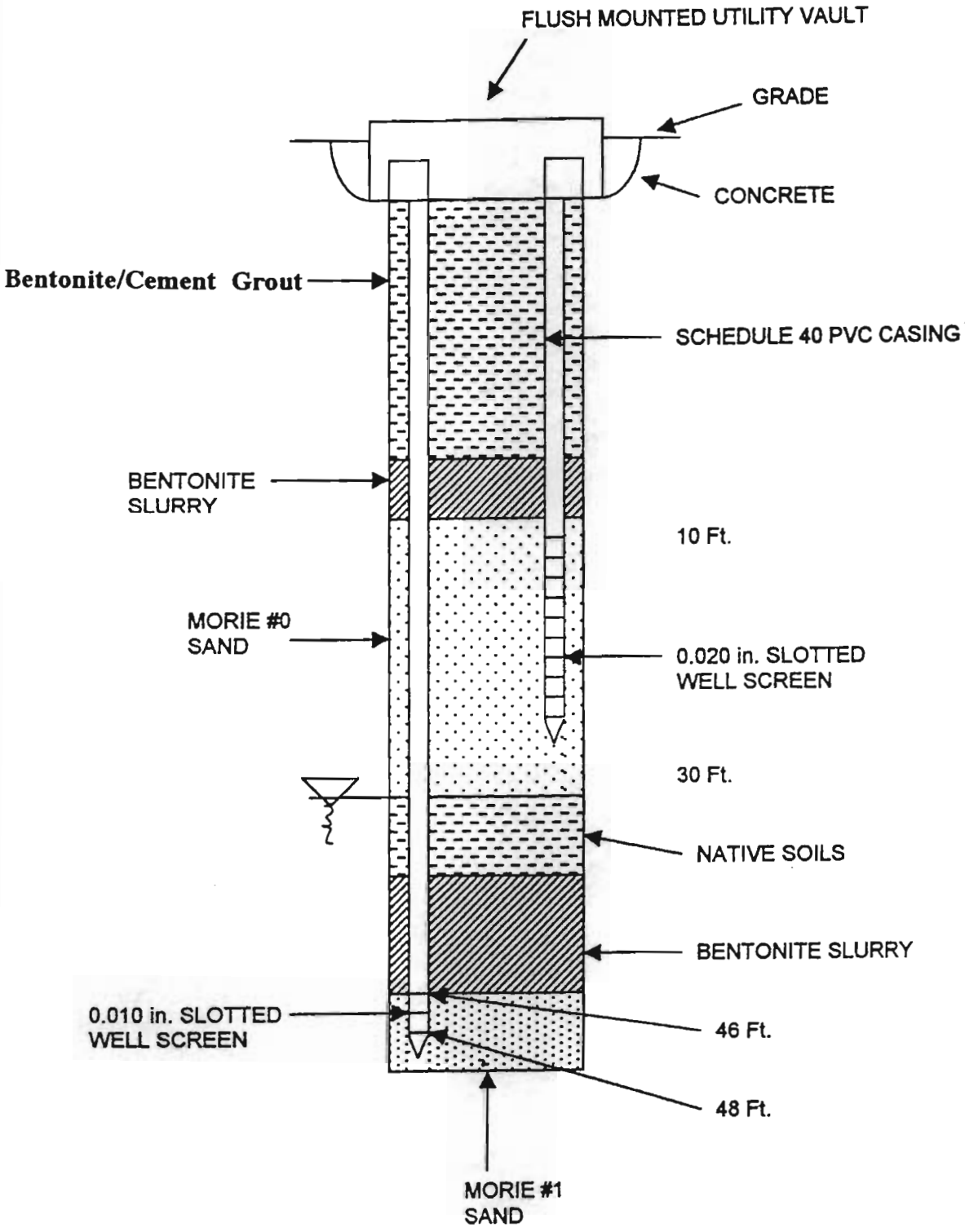


Figure 11 SVE Wells and AS Point Install Diagram

NOT TO SCALE

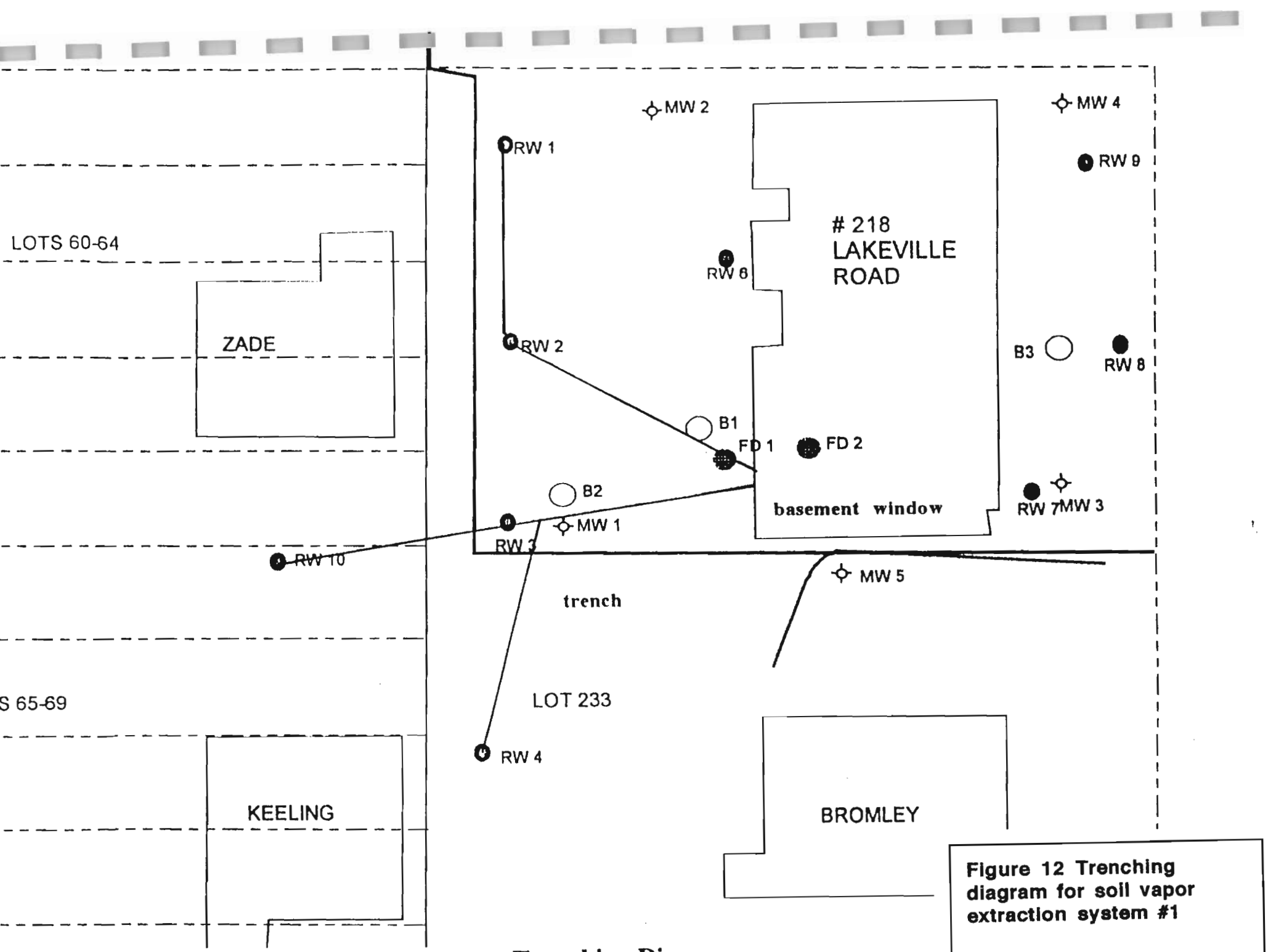


Figure 12 Trenching diagram for soil vapor extraction system #1

Trenching Diagram
1 inch = 35 feet

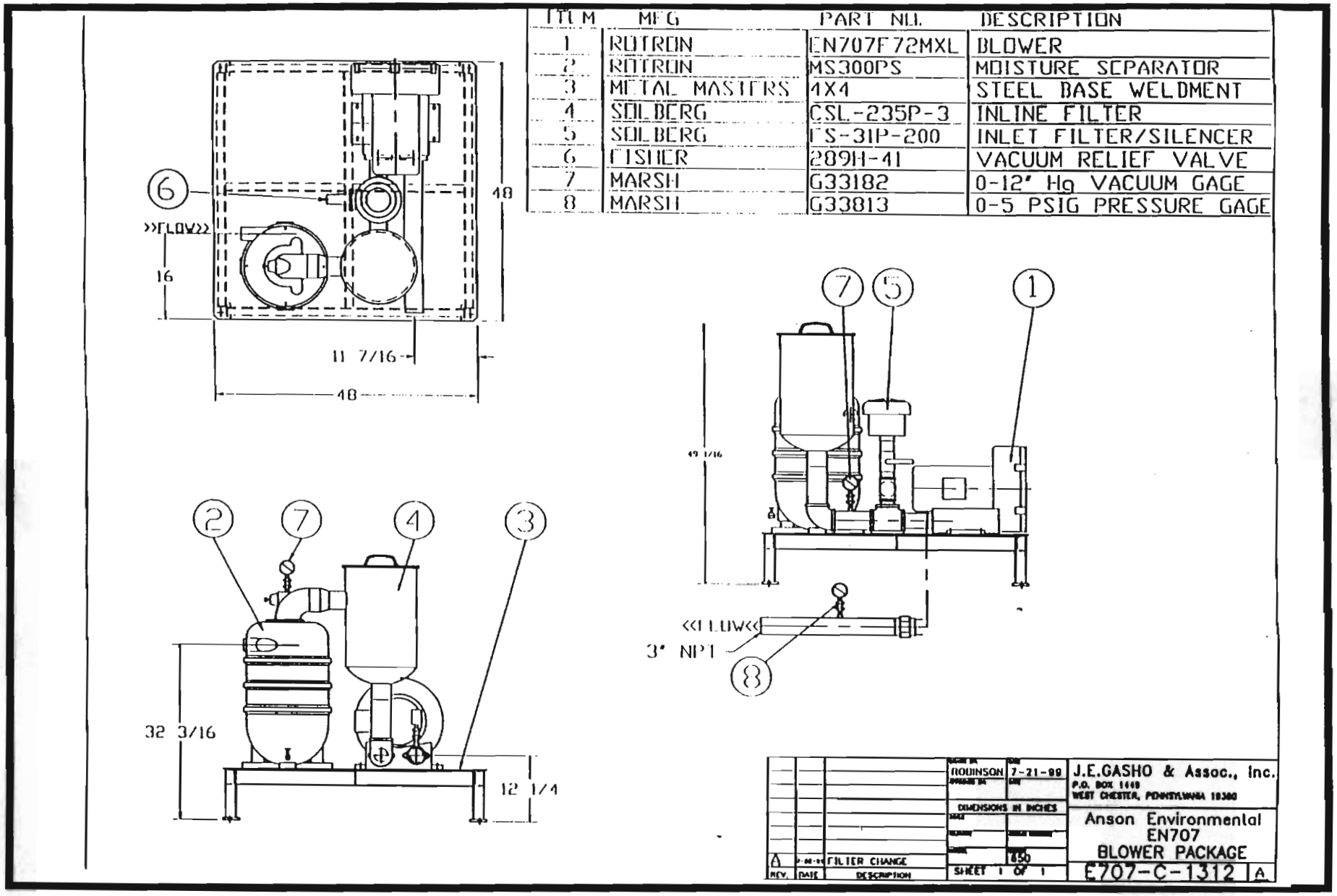


Figure 13 Schematic Design of Soil Vapor Extraction System

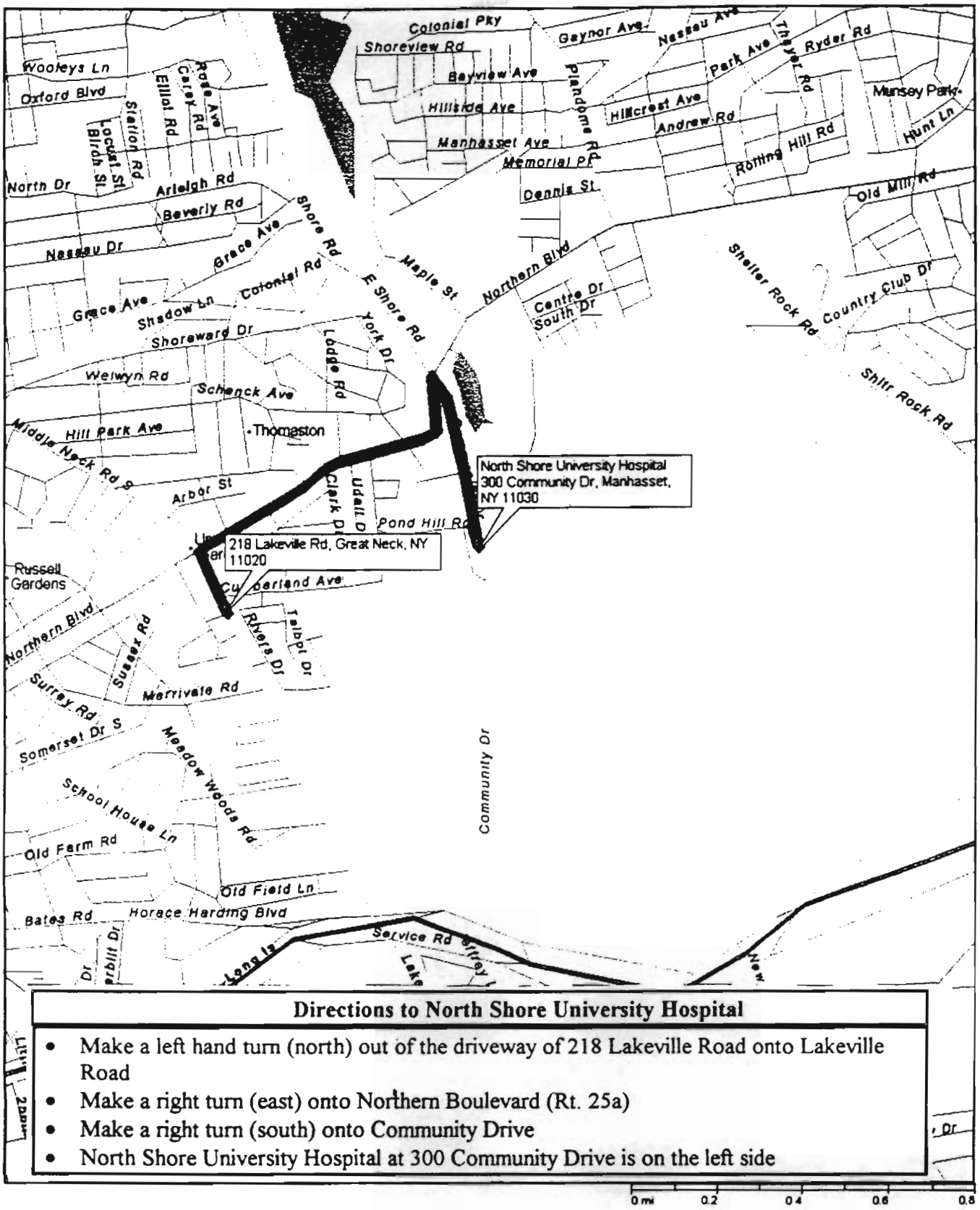


Figure 14 Directions to Nearest Medical Facility - Norht Shore University Hospital, 100 Community Drive, Manhasset, NY

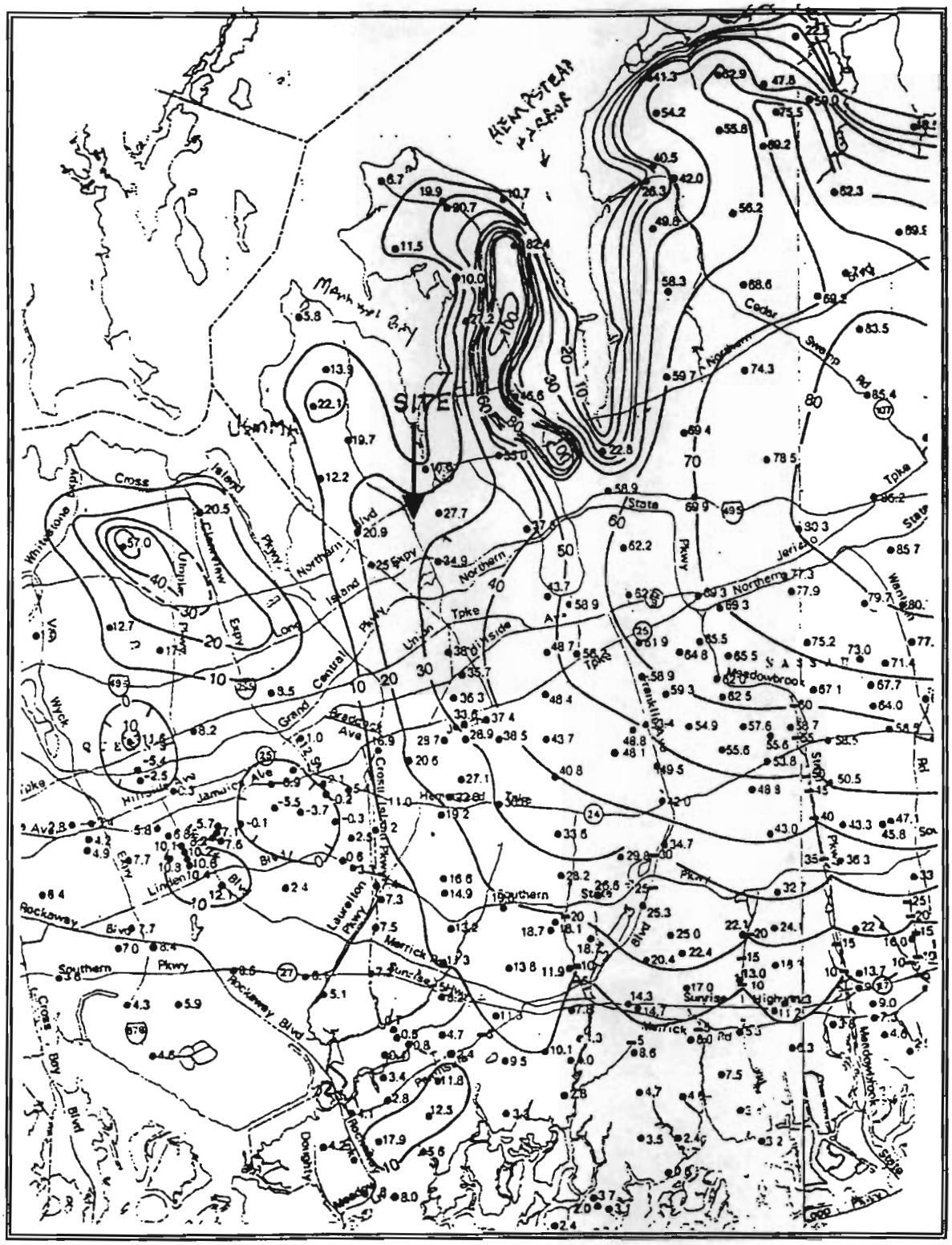


Figure 15 Groundwater Contours for Upper Glacial Aquifer, March-April 1984 (From USGS)

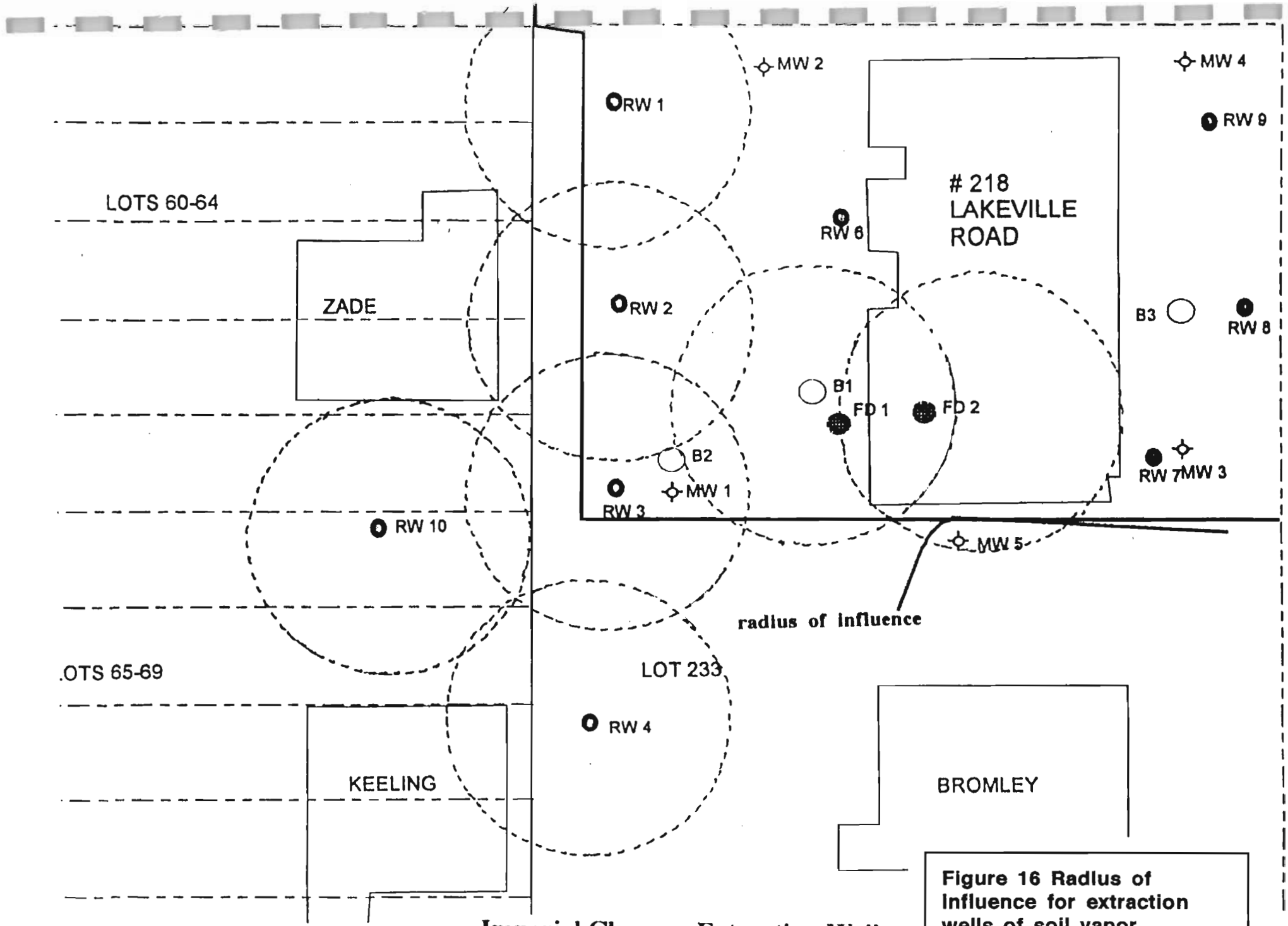


Figure 16 Radius of Influence for extraction wells of soil vapor extraction system #1

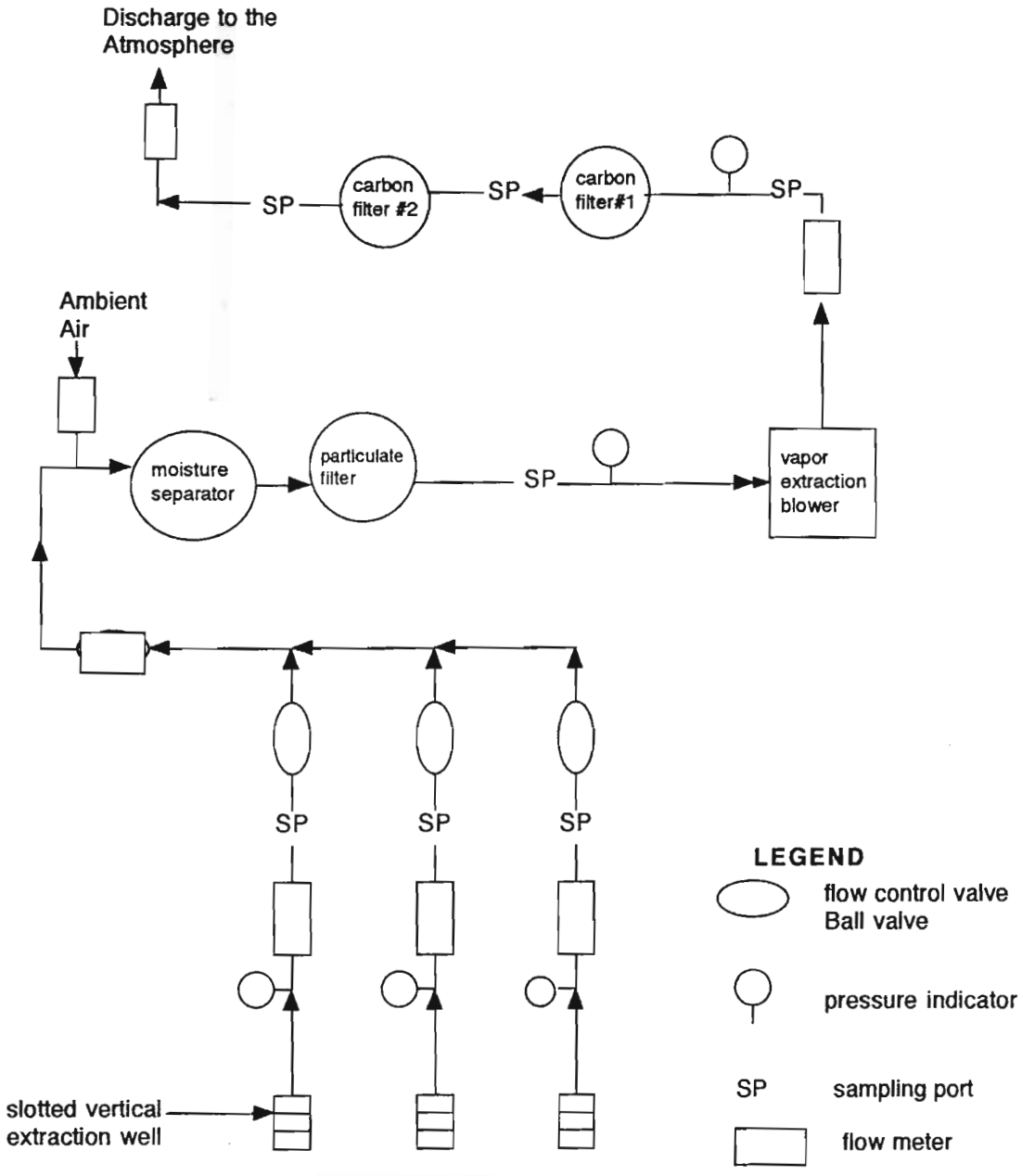
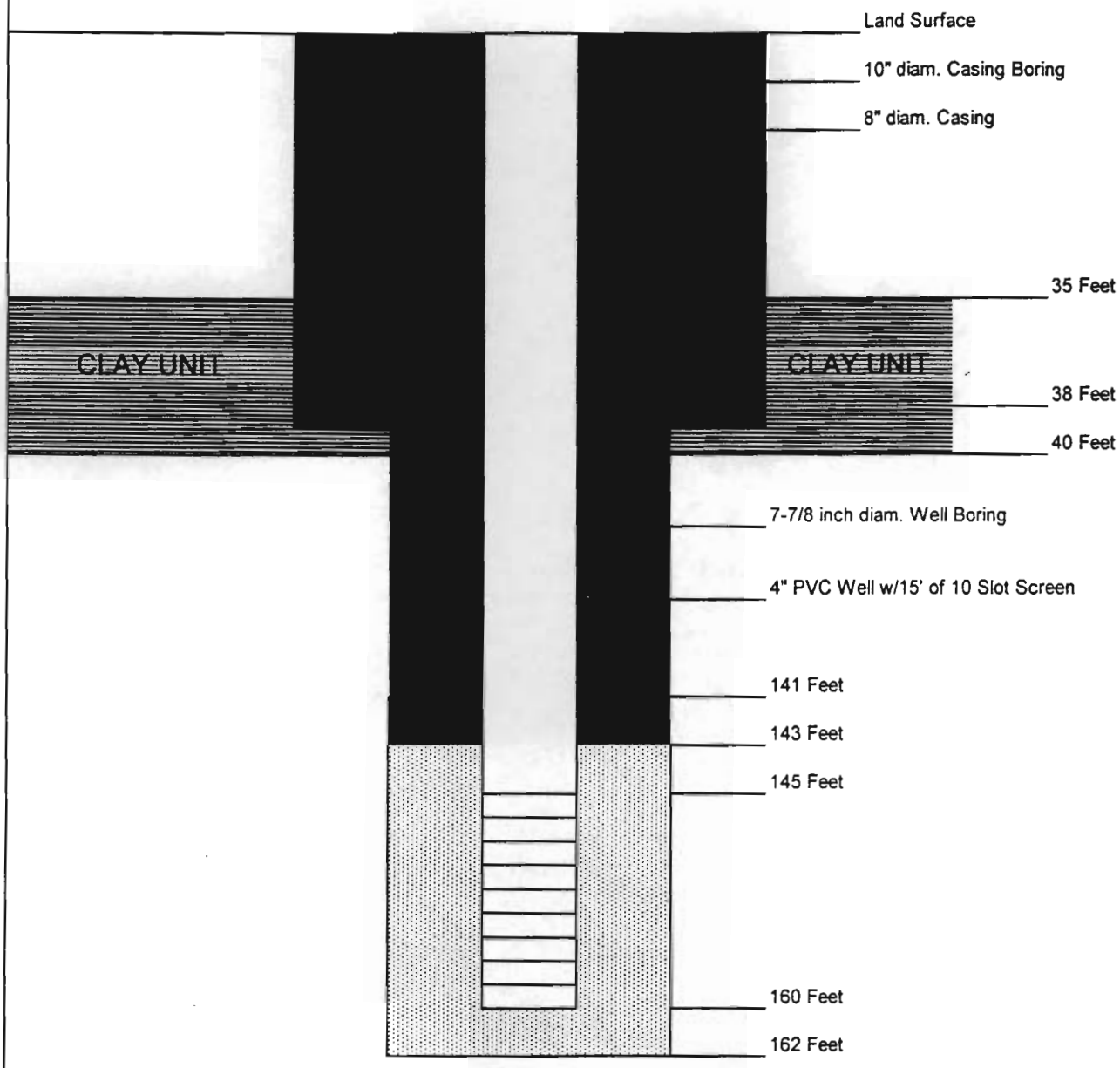


Figure 18 Schematic Diagram of a Soil Vapor Extraction System

not to scale

DOUBLE CASED WELL SCHEMATIC



LEGEND

- Bentonite/Cement Grout
- Bentonite Seal
- Morie Well Gravel Pack
- Clay Unit

Figure 19 Schematic Diagram of Upper Glacial Aquifer Monitoring Well

not to scale

Well depths are approximate to illustrate well construction details; actual well construction data may vary according to field conditions.

Schematic not drawn to scale.

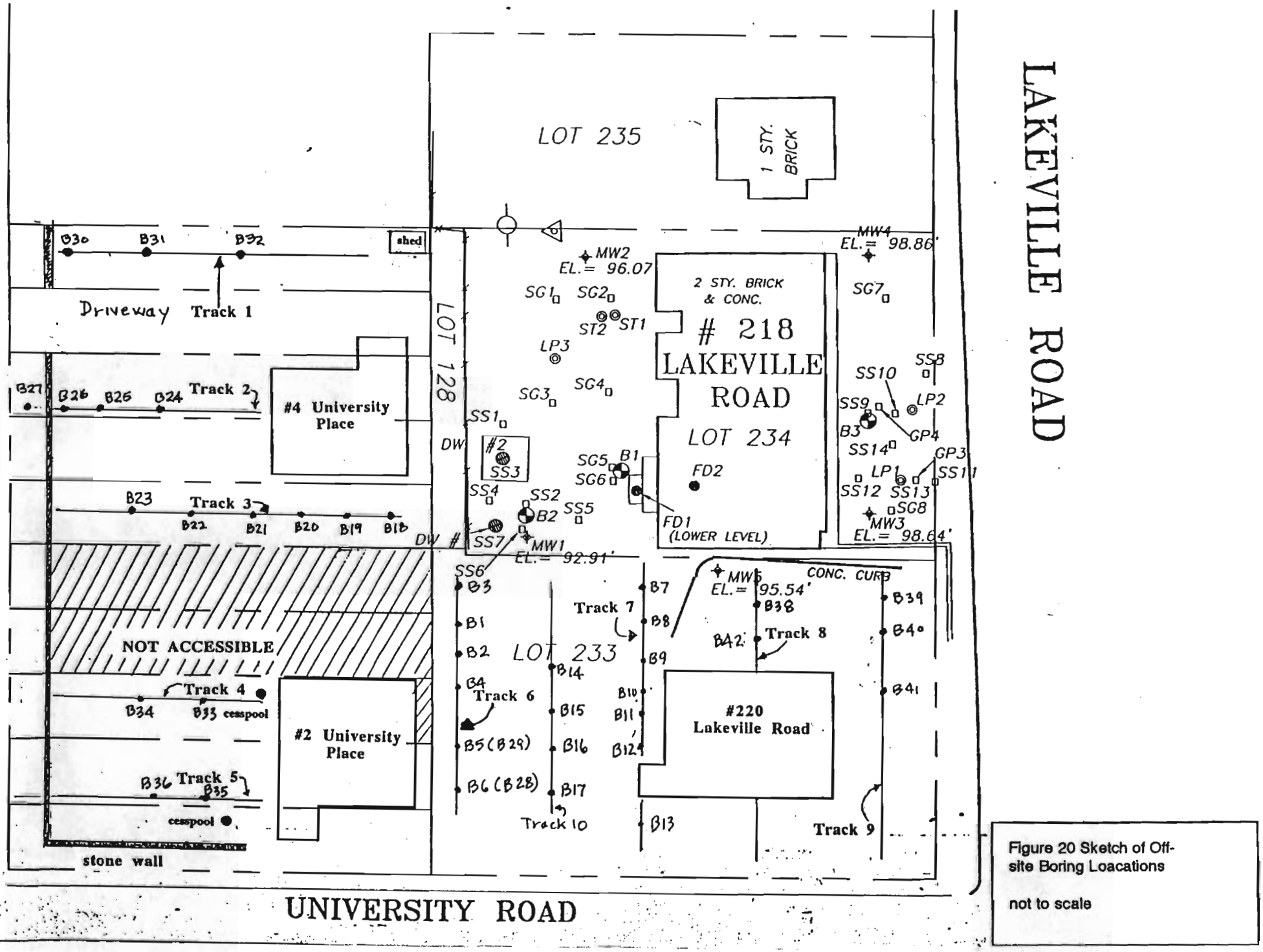


Figure 20 Sketch of Off-site Boring Loacations

not to scale

Table 1 - SS#1 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	7.4		Coarse grained sand, some gravel and fines, brown.
#2	2-4	13.4	AEL	Silts and some clay, light brown.
#3	4-6	0		Medium to coarse grained sand, brown.
#4	6-8	0		Medium to coarse grained sands, brown.
#5	8-10	4.8		Medium to coarse grained sands, brown.
#6	10-12	0		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	8.1		Medium to coarse grained sands, trace of gravel, brown.
#8	14-16	0		Medium to coarse grained sands, brown.
#9	16-18	7.4		Medium to coarse grained sands, brown.
#10	18-20	0	NCDH	Medium to coarse grained sands, trace of gravel, brown.
#11	20-22	1.7		Medium grained sands, trace of gravel, brown.
#12	22-24	0.1		Medium grained sands, brown.
#13	24-26	0		Medium to coarse grained sands, brown.
#14	26-28	26.2		Medium to coarse grained sands, some gravel, brown.
#15	28-30	9.2		Medium to coarse grained sands, some gravel, brown.
#16	30-32	75.1	AEL	Coarse sand and gravel, brown. Sample in WT.
#17	32-34	12.2		Coarse sand and trace of gravel, brown.
#18	34-36	0		Coarse grained sand, some gravel, brown.
#19	36-38	0		Coarse grained sand, trace of gravel, brown.
#20	38-40	0		Coarse grained sand, some gravel, brown.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	2.2		Backfill material, coarse sand, some gravel, dark brown.
#2	2-4	15.8		Silts and clay, light brown.
#3	4-6	11.4		Silts, coarse sand @ 5-6, brown.
#4	6-8	0.9		Medium to coarse grained sands, some gravel, brown.
#5	8-10	11.7		Coarse to medium grained sands, some gravel, brown.
#6	10-12	13.1		Medium grained sands, brown.
#7	12-14	32.7	AEL	Medium to coarse sand, trace of gravel.
#8	14-16	7		Medium to coarse grained sands, trace of gravel, brown.
#9	16-18	17.5		Medium grained sands, brown.
#10	18-20	29.9		Medium to coarse grained sands, trace of gravel, brown.
#11	20-22	20.5		Medium to coarse grained sands, brown.
#12	22-24	32.2		Medium grained sands, brown.
#13	24-26	0	NCDH	Medium to coarse grained sands, trace of gravel, brown.
#14	26-28	5.9		Coarse to medium grained sands, and some gravel.
#15	28-30	9.8		Coarse to grained sand, some gravel, brown.
#16	30-32	100	AEL/NCDH	Coarse to medium sand and gravel, brown. Sample in WT.
#17	32-34	0		Coarse sand and trace of gravel, brown.
#18	34-36	0		Coarse grained sand, some gravel, brown.
#19	36-38	0		Coarse grained sand, trace of gravel, brown.
#20	38-40	0		Coarse grained sand, some gravel and fines, brown.

Table 2A - SS#2 Analytical Results (ug/kg)

Analytical Parameter	AEL (12-14)	NCDH (24-26)	AEL (30-32)	NCDH (30-32)	NYSDEC TAGM Standards
Tetrachloroethene	14.9		10.5		1,400

Table 3 - SS#3 Boring Log. (Inside DW #2, DTB = 17')

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	18-20	0.1	AEL/NCDH	Organic material, coarse sand, black in color.
#2	20-22	0		Coarse to medium grained sands, grayish/brown.
#3	22-24	0		Coarse grained sands. brown.
#4	24-26	0	NCDH	Coarse to medium grained sands, trace of gravel, brown.
#5	26-28	3.2	AEL	Coarse sand mixed w/gravel, brown.
#6	28-30	2.5		Coarse sand mixed w/gravel, sample in WT, brown.
#7	30-32	1.1		Coarse sand and some gravel brown.
#8	32-34	0.9		Coarse sand and some gravel, brown.
#9	34-36	0		Coarse sands and some gravel brown.
#10	36-38	0		Coarse sands and some gravel, brown.
#11	38-40	0		Coarse sands and some gravel, brown.

Tables 1 through 15 – Soil Sampling.

Table 1A - SS#1 Analytical Results (ug/kg)

Analytical Parameter	AEL (2-4)	NCDH (18-20)	AEL (30-32)	NYSDEC TAGM Standards
Dichloroethene	1.4			250
ene	1.7			1,500
chloroethene	195		58.3	1,400
xylene	2.7			1,200
ene	1.5			1,200
-Trimethylbenzene	1.6			2,600
-Trimethylbenzene	2.1			2,400

Table 3A - SS#3 Analytical Results (ug/kg)

Analytical Parameter	AEL (18-20)	NCDH (18-20)	NCDH (24-26)	AEL (26-28)	NYSDEC TAGM Standards
Tetrachloroethene	26.4	250		8.2	1,400
Styrene				1.7	10,000

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	8.1		Medium grained sands, trace of gravel, brown.
#2	2-4	0.6		Medium to coarse grained sands, brown.
#3	4-6	0.4		Coarse grained sand and gravel, brown.
#4	6-8	6.8		Medium to coarse grained sands, trace of gravel, brown.
#5	8-10	4.8		Medium to coarse grained sands, trace of gravel, brown.
#6	10-12	0		Medium grained sands, brown.
#7	12-14	15.6		Medium to coarse grained sands, brown.
#8	14-16	2		Medium to coarse grained sands, brown.
#9	16-18	42		Medium to coarse grained sands, brown
#10	18-20	77.2	AEL	Medium grained sands, and some fines, brown.
#11	20-22	124		Medium to fine grained sands, brown.
#12	22-24	111		Medium grained sands, and trace of fines, brown.
#13	24-26	391	AEL	Medium grained sands, and some fines, brown.
#14	26-28	384	NCDH	Medium grained sands and, some fines, trace gravel, brown.
#15	28-30	203		Coarse to medium grained, some fines, Sample in WT.
#16	30-32	0		Coarse sand and gravel, brown.
#17	32-34	0		Coarse sand and trace of gravel, brown.
#18	34-36	0		Coarse sand and trace of gravel, brown.
#19	36-38	0		Coarse sand and trace of gravel, brown.
#20	38-40	0		Coarse grained sand, brown.

Table 4A - SS#4 Analytical Results (ug/kg)

Analytical Parameter	AEL (18-20)	AEL (24-26)	NCDH (26-28)	NYSDEC TAGM Standards
c-1,2 Dichloroethene		626		250
Tetrachloroethene		5,470	13,000	1,400

Table 5 - SS#5 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	0		Backfill material, coarse sand, some gravel, dark brown.
#2	2-4	37.8		Fine sands and silt, some gravel, brown.
#3	4-6	8		Fine to medium grained, sands, brown.
#4	6-8	20.9		Medium to coarse grained sands, some gravel, brown.
#5	8-10	63.7		Medium grained sands, trace of gravel, brown.
#6	10-12	6.2		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	102		Medium to coarse grained sands, some gravel, brown.
#8	14-16	33.7		Medium to coarse grained sands, trace of gravel brown.
#9	16-18	153		Coarse to medium grained sands, brown
#10	18-20	171	AEL	Medium to coarse grained, sands, brown.
#11	20-22	319		Medium grained sands, brown.
#12	22-24	209		Medium grained sands, brown.
#13	24-26	43.6		Medium to coarse grained sands, trace of gravel.
#14	26-28	295		Medium to coarse grained sands, and some gravel.
#15	28-30	317	AEL	Coarse to grained sand, some gravel, Sample in WT.
#16	30-32	40.9		Coarse sand and gravel, brown.
#17	32-34	0		Coarse sand and trace of gravel, brown.
#18	34-36	14.1		Coarse grained sand, brown.
#19	36-38	0		Coarse grained sand, brown.
#20	38-40	18.8		Coarse grained sand, trace of gravel, brown.

Table 5A - SS#5 Analytical Results (ug/kg)

Analytical Parameter	AEL (18-20)	AEL (28-30)	NYSDEC TAGM Standards
c-1,2 Dichloroethene		3.4	250
Tetrachloroethene	16.4	60.3	1,400
m,p-xylene	3.4		1,200
1,3,5-Trimethylbenzene	1.7		2,600
1,2,4-Trimethylbenzene	3.9		2,400
1,4-Dichlorobenzene	1.3		8,500

Table 6 - SS#6 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	316	AEL	Backfill material, coarse sand, dark brown.
#2	2-4	121		Fine sands and some silt mixed w/large cobbles, brown.
#3	4-6	9.3		Coarse to fine grianed sands, mixed w/large cobbles, brown.
#4	6-8	4.3		Medium to coarse grained sands, brown.
#5	8-10	18.6		Medium grained sands, trace of gravel, brown.
#6	10-12	7.6		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	12		Medium to coarse grained sands, brown.
#8	14-16	11.1		Medium to coarse grained sands, trace of gravel brown.
#9	16-18	21.6		Medium to coarse grained sands, brown
#10	18-20	46.1		Medium grained sands, and some gravel, brown.
#11	20-22	56.1		Medium to coarse grained sands, brown.
#12	22-24	34.6		Medium grained sands, and trace of fines, brown.
#13	24-26	66.7		Coarse to medium grained sands, brown.
#14	26-28	146	AEL	Medium to coarse grained sands, and some gravel.
#15	28-30	141		Coarse to grained sand, some gravel, Sample in WT.
#16	30-32	2.8		Coarse sand and gravel, brown.
#17	32-34	0.9		Coarse sand and trace of gravel, brown.
#18	34-36	0		Coarse grained sand, brown.
#19	36-38	0		Coarse grained sand, brown.
#20	38-40	0		Coarse grained sand, brown.

Table 6A - SS#6 Analytical Results (ug/kg)

Analytical Parameter	AEL (0-2)	AEL (26-28)	NYSDEC TAGM Standards
c-1,2 Dichloroethene		1.4	250
Tetrachloroethene	32,100	8	1,400
Styrene	3,030		10,000
Naphthalene		1.3	10,000

Table 7 - SS#7 Boring Log.
(Inside DW #1, DTB = 12')

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	12-14	+2,000		Organic material, coarse sand perc odor, black in color.
#2	14-16	+2,000		Medium grained sands, strong perc odor, gray in color.
#3	16-18	+2,000	AEL	Medium to coarse sands, strong perc odor.
#4	18-20	1,512		Medium sands and some fines, perc odor, brown.
#5	20-22	+2,000		Medium sands and some fines, perc odor, brown.
#6	22-24	+2,000	NCDH	Medium to fine grained sands, perc odor, grayish-brown.
#7	24-26	+2,000		Medium to coarse sands, perc odor, reddish brown.
#8	26-28	+2,000	AEL	Medium to coarse sands, perc odor, brown.
#9	28-30	+2,000		Coarse sands and some gravel perc odor, sample in WT.
#10	30-32	293		Coarse sands and gravel, brown.
#11	32-34	567		Coarse sands and gravel, brown.
#12	34-36	187		Coarse to medium grained sands, trace of gravel, brown.
#13	36-38	142		Medium to coarse sands, brown.
#14	38-40	85		Medium to coarse sands, brown.

Table 7A - SS#7 Analytical Results (ug/kg)

Analytical Parameter	AEL (16-18)	NCDH (22-24)	AEL (26-28)	NYSDEC TAGM Standards
c-1,2-Dichloroethene	38.3			250
Trichloroethene	579,000			700
Toluene	23.4			1,500
Tetrachloroethene	6,020,000	1,600,000	6,500,000	1,400
Chlorobenzene	3.7			1,700
Ethylbenzene	2.2			5,500
m,p-xylene	17.1			1,200
o-xylene	33.4			1,200
Isopropylbenzene	41.7		1,620	2,600
n-Propylbenzene			5,750	~~300~~ 14,000
1,3,5-Trimethylbenzene	3,310		12,900	~~2,600~~ ~~14,000~~ 3,300
4-Isopropyltoluene	192		877	10,000
1,2,4-Trimethylbenzene	51			2,400
sec-Butylbenzene	36.5			10,000
tert-Butylbenzene	4.4			10,000
1,3-Dichlorobenzene	22.2			1,600
1,4-Dichlorobenzene	246		2,210	8,500
1,2-Dichlorobenzene	2,410	6100	11,500	7,900
1,2,4-Trichlorobenzene	11.1			2,400
Hexachlorobutadiene	9.1			10,000
Naphthalene	20			10,000

Table 8 - SS#8 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	2.3		Backfill material, coarse sand some fines, brown.
#2	2-4	3.5	AEL	Fine sands and silt, trace of clay, brown.
#3	4-6	0		Medium to coarse sand, trace of gravel/fines, brown.
#4	6-8	1.4		Coarse to medium grained sands, some gravel, brown..
#5	8-10	0		Coarse sand and gravel, trace of fines, brown.
#6	10-12	0.3		Coarse grained sand and gravel, trace fines, brown.
#7	12-14	0		Coarse grained sand and gravel, brown..
#8	14-16	2.7		Medium to coarse sand, trace of gravel, brown.
#9	16-18	0		Coarse to medium grained sands, trace of gravel, brown.
#10	18-20	0		Coarse to medium sand, trace of gravel, grayish-brown.
#11	20-22	0		Medium to coarse grained sands, brown.
#12	22-24	0.2		Coarse to medium grained sands, trace of gravel, brown.
#13	24-26	0		Coarse to medium grained sands, trace of gravel, brown.
#14	26-28	2.1		Coarse grained sands reddish-brown.
#15	28-30	0.7		Medium to coarse grained sand, brown.
#16	30-32	11.3	AEL	Medium to coarse grained sand, brown.
#17	32-34	3.1		Coarse sand and trace of gravel, brown. Sample in WT.
#18	34-36	0.1		Coarse grained sand and trace of gravel, brown.
#19	36-38	0		Coarse grained sand, brown.
#20	38-40	0		Coarse to medium grained sands, trace of gravel, brown.

Table 8A - SS#8 Analytical Results (ug/kg)

Analytical Parameter	AEL (2-4)	AEL (30-32)	NYSDEC TAGM Standards
Benzene	1.5		60
Tetrachloroethene		10.7	1,400
m,p-xylene	2.1	1.1	1,200
1,3,5-Trimethylbenzene	1.2		2,600
1,2,4-Trimethylbenzene	1.6		2,400
1,3-Dichlorobenzene		1.1	1,600
1,2-Dichlorobenzene		1.2	7,900

Table 9 - SS#9 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	0		Backfill material, medium to coarse grained sands, brown.
#2	2-4	1.6		Fine sands and silt, brown.
#3	4-6	0		Medium to coarse sand, trace of gravel/fines, brown.
#4	6-8	0		Coarse to medium grained sands, trace of gravel, brown..
#5	8-10	0		Coarse to medium sand, trace of gravel/fines, brown.
#6	10-12	0		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	0		Coarse to medium grained sands, some gravel, brown..
#8	14-16	0		Medium to coarse sand, trace of gravel/fines, gray.
#9	16-18	1.6	AEL	Medium to coarse grained sands, black.
#10	18-20	0		Medium to coarse grained sands, brown.
#11	20-22	4.3		Medium to coarse grained sands, brown.
#12	22-24	0.7		Coarse to medium grained sands, trace of gravel, brown.
#13	24-26	4.9		Coarse to medium grained sands, trace of gravel, brown.
#14	26-28	1.5		Coarse grained sands, brown. reddish-brown.
#15	28-30	6.4	AEL	Coarse grained sand and gravel, brown.
#16	30-32	3.3		Coarse to medium grained sands, trace of gravel, brown.
#17	32-34	0		Coarse sand and gravel, brown. Sample in WT.
#18	34-36	4.3		Coarse grained sand and gravel, brown.
#19	36-38	0		Coarse sand and gravel, brown.
#20	38-40	0		Coarse to medium grained sands, trace of gravel, brown.

Table 9A - SS#9 Analytical Results (ug/kg)

Analytical Parameter	AEL (16-18)	AEL (28-30)	NYSDEC TAGM Standards
oro hene		8.3	1,400
ne		1.2	1,200

Table 10 - SS#10 Boring Log. (Inside LP-2, DTB = 13')

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	14-16	No Sample Obtained.		
#2	16-18	5.5		Coarse grained sand and some organic material, Black.
#3	18-20	40.5		Coarse grained sand and gravel, Black.
#4	20-22	580	AEL/NCDH	Coarse grained sand and gravel, Black.
#5	22-24	551		Coarse grained sand and gravel, Black (lighter color.)
#6	24-26	284		Medium to coarse grained sand, Brown.
#7	26-28	34.1		Medium to coarse grained sand, Brown.
#8	28-30	27.1	AEL/NCDH	Coarse to medium grained sand, trace of gravel, Brown.
#9	30-32	1.0	NCDH	Coarse to medium grained sand, trace of gravel, Brown.
#10	32-34	9.4		Coarse to medium sand, trace of gravel, Sample in WT.
#11	34-36	6.8		Coarse grained sand and trace of gravel, Brown.
#12	36-38	No Sample Obtained.		
#13	38-40	5.0		Coarse to medium grained sand, Brown.

Table 10A - SS#10 Analytical Results (ug/kg)

Analytical Parameter	AEL (20-22)	NCDH (20-22)	AEL (28-30)	NCDH (28-30)	NCDH (30-32)	NYSDEC TAGM Standards
c-1,2-Dichloroethene	1,080	910				250
Trichloroethene	4,750	1,700				700
Tetrachloroethene	34,800	6,200	4.8			1,400
n-Propylbenzene	387					~~300~~ 14,000
1,3,5-Trimethylbenzene	728	360				~~2,600~~ 3,300
4-Isopropyltoluene	1,190	390				10,000
1,2,4-Trimethylbenzene	2,830	990				~~2,400~~ 13,000
sec-Butylbenzene	239					~~10,000~~ 25,000
1,3-Dichlorobenzene	11,600	5,300	2.3			1,600
1,4-Dichlorobenzene	7,320	2,600				8,500
n-Butylbenzene	617					~~10,000~~ 18,000
1,2-Dichlorobenzene	11,400	4,000	2.7			7,900
1,2,4-Trichlorobenzene	1,750	810				~~2,400~~ 3,400
Hexachlorobutadiene	882	650				10,000
Naphthalene	1,390					10,000
1,2,3-Trichlorobenzene	643	350				10,000

Total VOCs ≤ 10 ppm

Table 11 - SS#11 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	1.2		Backfill material, fine sands and silts, brown.
#2	2-4	1.6	AEL	Fine sands and silt, trace of gravel, brown.
#3	4-6	0		Coarse to fine grianed sands, trace of gravel, brown.
#4	6-8	0.7		Coarse grained sands, some fines and gravel, brown.
#5	8-10	0		Medium to coarse grained sands, trace of gravel, brown.
#6	10-12	0		Coarse to medium grained sands, some gravel, brown.
#7	12-14	0		Coarse grained sands, some gravel, brown.
#8	14-16	0		Coarse to medium grained sands, trace of gravel, brown.
#9	16-18	1.4		Coarse to medium sands, trace of gravel, grayish-brown.
#10	18-20	0		Medium to coarse sands, trace of gravel, grayish brown.
#11	20-22	0		Coarse grained sands, trace of gravel, brown.
#12	22-24	0		Medium to coarse grained sand, brown.
#13	24-26	0		Coarse grained sand and gravel, brown.
#14	26-28	0		Medium to coarse grained sand, brown.
#15	28-30	0		Coarse to medium grained sand, trace of gravel, brown.
#16	30-32	0	AEL	Medium to coarse grained sand, brown.
#17	32-34	0		Coarse to medium sands, trace of gravel, Sample in WT.
#18	34-36	0		Coarse to medium grained sand, brown.
#19	36-38	0		Coarse grained sand, brown.
#20	38-40	0		Coarse grained sand, brown.

Table 11A - SS#11 Analytical Results (ug/kg)

Analytical Parameter	AEL (2-4)	AEL (30-32)	NYSDEC TAGM Standards
Benzene	1.2		60
Toluene	1.1		1,500
Tetrachloroethene	3.7	4.8	1,400
m,p-xylene	1.9		1,200

Table12 - SS#12 Boring Log.

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	2.1		Coarse sand and silts, some gravel, dark brown.
#2	2-4	6.8		Fine sands and silt, trace of gravel, brown.
#3	4-6	5.9		Coarse to fine grianed sands, trace of gravel, brown.
#4	6-8	0		Coarse grained sands, some fines and gravel, brown.
#5	8-10	0		Medium to coarse grained sands, trace of gravel, brown.
#6	10-12	0		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	5.5		Medium to coarse grained sands, trace of gravel, brown.
#8	14-16	4		Coarse to medium grained sands, trace of gravel, brown.
#9	16-18	1.6		Coarse to medium sands, trace of gravel, grayish-brown.
#10	18-20	8.8	AEL	Medium to coarse sands, some gravel, grayish brown.
#11	20-22	7.2		Medium grained sands, trace of gravel, brown.
#12	22-24	8.3		Coarse sand and gravel, brown.
#13	24-26	18.9		Coarse to medium grained sands, reddish-brown.
#14	26-28	23.8	AEL	Coarse grained sand and gravel, reddish-brown.
#15	28-30	4.4		Medium to coarse grained sand, trace of gravel, brown.
#16	30-32	4.3		Coarse to medium sand, brown.
#17	32-34	7.5		Coarse to medium grained sand, trace of gravel, brown.
#18	34-36	0		Coarse grained sand, brown.
#19	36-38	0		Coarse grained sand, some gravel, brown.
#20	38-40	0		Coarse grained sand, trace of gravel, brown.

Table 12A - SS#12 Analytical Results (ug/kg)

Analytical Parameter	AEL (18-20)	AEL (26-28)	NYSDEC TAGM Standards
Tetrachloroethene	10.4	2.7	1,400
m,p-xylene	1.4		1,200
1,2,4-Trimethylbenzene	0.92		2,400

Table 13 - SS#13 Boring Log (Inside LP-1, DTB = 16')

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	16-18	0		Backfill material - coarse grained sand, tan.
#2	18-20	19.2	AEL	Organic material, fine to medium grained sands, gray.
#3	20-22	9.3		Medium to coarse grained sands, trace of fines, gray.
#4	22-24	1.3		Medium to coarse grained sands, trace of gravel, gray.
#5	24-26	0.5		Coarse to medium grained sand, trace of gravel, gray.
#6	26-28	7.7		Coarse to medium sand, some gravel, grayish-brown
#7	28-30	0.6		Coarse sand and some gravel, brown.
#8	30-32	8.5	AEL	Coarse to medium grained sand, some gravel, brown.
#9	32-34	1.9		Coarse to medium sand, some gravel. Sample in WT.
#10	34-36	0		Coarse to medium sands and some gravel, brown.
#11	36-38	0		Coarse to medium sands and trace of gravel, brown.
#12	38-40	0		Coarse to medium sands and trace of gravel, brown.

Table 13A - SS#13 Analytical Results (ug/kg)

Analytical Parameter	AEL (18-20)	AEL (30-32)	NYSDEC TAGM Standards
m,p-xylene		1.4	1,200
1,3,5-Trimethylbenzene		1.5	2,600
4-Isopropyltoluene	9.7		10,000
1,2,4-Trimethylbenzene	2.0	1.3	2,400
1,3-Dichlorobenzene	21.6		1,600
1,2-Dichlorobenzene	11.0		7,900
1,2,4-Trichlorobenzene	52.9	0.87	3,400

Sample Number	DBG (feet)	PID Reading (ppm)	Submitted to Lab By:	Sample Description
#1	0-2	11.5	AEL	Backfill material, medium to fine grained sands, brown.
#2	2-4	7.1		Fine sands and silt, brown.
#3	4-6	7		Medium to coarse grained sand, trace of gravel, brown.
#4	6-8	0		Medium to coarse grained sands, trace of gravel, brown.
#5	8-10	0.8		Medium to coarse grained sands, trace of gravel, brown.
#6	10-12	0		Medium to coarse grained sands, trace of gravel, brown.
#7	12-14	5.7		Medium to coarse grained sands, some gravel, brown.
#8	14-16	0.3		Coarse to medium grained sands, trace of gravel, gray.
#9	16-18	0		Medium grained sands, trace of gravel, black.
#10	18-20	0		Medium grained sands, black.
#11	20-22	0		Medium to coarse grained sands, trace of gravel, gray.
#12	22-24	0		Coarse to medium grained sands, trace of gravel, gray.
#13	24-26	0		Coarse to medium sand, some gravel, grayish-brown.
#14	26-28	0		Coarse to medium grained sands, reddish-brown.
#15	28-30	3.8		Medium to coarse grained sand, brown.
#16	30-32	5.1		Coarse grained sand, trace of gravel, brown.
#17	32-34	6.0	AEL	Medium to coarse grained sand, brown.
#18	34-36	0		Medium to coarse grained sand, brown.
#19	36-38	0		Medium to coarse grained sand, brown.
#20	38-40	0		Medium to coarse grained sand, brown.

Table 14A - SS#14 Analytical Results (ug/kg)

Analytical Parameter	AEL (0-2)	AEL (32-34)	NYSDEC TAGM Standards
Toluene	2.7		1,500
Tetrachloroethene	78.5	47.3	1,400
m,p-xylene	5.7	2.9	1,200
o-xylene	3.1	1.8	1,200
1,2,4-Trimethylbenzene	4.4	8.5	2,400
1,3,5-Trimethylbenzene		4.1	2,600
Naphthalene		2.8	10,000

Table 15 - Soil Gas Sampling.

Sample Location	Depth Below Grade (feet)	Flow Rate (liters/min.)	Run Time (minutes)	PID Reading (ppm)
SG #1	20	9	3	17.6
	25	9	3	13.9
	30	9	3	11.4
SG #2	20	9	3	22.4
	25	9	3	33.4
	30	9	3	6.2
SG #3	20	8	3.5	102
	25	8	3.5	36.4
	30	8	3.5	68.7
SG #4	20	8	3.5	222
	25	8	3.5	77.3
	30	8	3.5	303
SG #5	20	9	3	867
	25	9	3	961
	30	9	3	1,021
SG #6	20	9	3	1,143
	25	9	3	1,269
	30	9	3	800
SG #7	20	8.75	3	5.7
	25	8.75	3	8.9
	30	8.75	3	52.1
SG #8	20	9	3	7.7
	25	9	3	44.1
	30	9	3	27.1

Tables 16 through 17 – Perched Water Sampling.

Table 16 - Analytical Results of Perched Water Samples Submitted by AEL. (ug/L)

Sample Location	PCE (5ug/L)	TCE (5ug/L)	Benzene (0.7ug/L)	t-1,2 DCE (5ug/L)	1,3-DCB (5ug/L)	1,4-DCB (5ug/L)	1,2-DCB (4.7ug/L)
MW-1	38.9						
MW-2							
MW-3	17.6						
MW-4	68.6						
MW-5	3.9						
GP-1 (30-34)	3,830	6.7					
GP-1 (38-42)	5.9						
GP-1 (46-50)							
GP-2 (30-34)		16.4					
GP-2 (38-42)	3.8						
GP-2 (46-50)	1.7						
GP-3 (32-36)	61.4		1.2				
GP-3 (40-44)							
GP-3 (48-52)	3.1						
GP-4 (32-36)	7,210	51.6	3.8	3.6	4.6	2.6	6
GP-4 (40-44)							
GP-4 (48-52)							

Note:
(5ug/L) = NYSDEC TAGM Groundwater Standards
PCE = Tetrachloroethene
TCE = Trichloroethene
t-1,2 DCE = t-1,2-Dichloroethene
1,3-DCB = 1,3-Dichlorobenzene
1,4-DCB = 1,4-Dichlorobenzene
1,2-DCB = 1,2-Dichlorobenzene

Table 17 - Analytical Results of Perched Water Samples Submitted by NCDH. (ug/L)

Analytical Parameter	MW-1	MW-2	MW-3	MW-4	MW-5	NYSDEC TAGM Standards
Dichlorodifluoromethane				1		No Standard
c-1,2-Dichloroethylene	8					5
Trichloroethylene	3			1		5
Tetrachloroethylene	140	2	23	99	78	5
Benzene				0.5		1
Methyl-t-Butyl Ether	3		2	1	1	50

Table 18 Off-Site Soil Sampling

Imperial Cleaners			Anson Environmental			
218 Lakeville Rd			Soil Sampling			
PID/Sensidyne tube readings in soil						
					Submitted for	
	14-16 ft	19-21 ft	22-23 ft	24-26 ft	Laboratory Analysis	Comments
B1	0		0	369		
B2			138			
B3		37.1	2000	2000		
B4	2000	1977		210		
B5	1.7	17.8		10		
B6	1	1.9		water		
B7	0	2000		0	14-16 ft	
B8	206	1689		75.9		
B9	2000	821/5		2000/1		
B10		49.3		86.8		
B11	413	126		402		
B12	22	2000				
B13	800	2000		434		
B14	2000	2000/30		2000/40	19-21 ft and 24-26 ft	
B15	2000	2000		356		
B16	2000	2000		2000	19-21 ft	
B17	392	541/0		1784	19-21 ft and 24-26 ft	
B18	2000/30	582/10		2000/30		
B19	2000/10	2000/7		2000/20		
B20	2000/6	2000/10+		2000		
B21	2000/9	1007/5		2000/1		
B22	2000/5	2000/4		2000/10+	14-16 ft, 19-21 ft and 24-26 ft	
B23	2000/0	2000/1		2000	14-16 ft, 19-21 ft and 24-26 ft	
B24	2000/4	2000/4		2000/10+		
B25	2000/3	2000/4		2000/0		
B26	2000/2	2000/4		2000/1	14-16 ft,19-21 ft and 24-26 ft	
B27	nr/1	nr/2		nr	14-16 ft and 19-21 ft	nr=no PID reading
B28	7.3/0	53.2/3		148/0	19-21 ft	same as boring B6
B29	443/0	148/3		96/0	19-21 ft	same as boring B5
B30	35.6/10	39/7		water	14-16 ft and 19-21 ft	
B31	158/1	100/19		153/12	19-21 ft and 24-26 ft	
B32	106/1	143/5		203/10	19-21 ft and 24-26 ft	
B33	1764/0	448/1		0/0	14-16 ft and 19-21 ft	
B34	nr	32/0		14/0	19-21 ft	
B35	23.6/0	38.1/0		69.4/0		
B36	166/0	79.2/0		221/0		
B37	0/0	15.8/0		5.2/0		same as boring 13
B38	nr	40.1/5		34/12	19-21 ft and 24-26 ft	
B39	2/3	3.1/2		6.2/3	14-16 ft,19-21 ft and 24-26 ft	
B40	3.3/0	1.6/0		3.6/1		
B41	8.8/0	29.7/0		23.9/0		
B42	nr	12.3/5		49.8/nr	19-21 ft and 24-26 ft	nr=no Sensidyne tube reading

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

CASE NARRATIVE

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6289

Print Date: 04/21/98

8260

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Sample G6289-1 contained 1,4-Dichlorobenzene at a concentration slightly above the low level soil maximum calibration limit. This compound was diluted out of the medium level soil analysis.

Reviewed by: Peggy Lorigo PW

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6289
Collected: 04/06/98
Location: SS #7 (16'- 18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.89	ppb	1.39	0.89	ppb
Chloromethane	<0.47	ppb	1.39	0.47	ppb
Vinyl Chloride	<0.83	ppb	1.39	0.83	ppb
Bromomethane	<0.54	ppb	1.39	0.54	ppb
Chloroethane	<0.26	ppb	1.39	0.26	ppb
Trichlorofluoromethane	<0.15	ppb	1.39	0.15	ppb
1,1-Dichloroethene	<0.29	ppb	1.39	0.29	ppb
Methylene Chloride	<0.82	ppb	1.39	0.82	ppb
t-1,2-Dichloroethene	<0.57	ppb	1.39	0.57	ppb
1,1-Dichloroethane	<0.22	ppb	1.39	0.22	ppb
2,2-Dichloropropane	<0.32	ppb	1.39	0.32	ppb
c-1,2-Dichloroethene	38.3	ppb	1.39	0.7	ppb
Chloroform	<0.24	ppb	1.39	0.24	ppb
Bromochloromethane	<0.35	ppb	1.39	0.35	ppb
1,1,1-Trichloroethane	<0.39	ppb	1.39	0.39	ppb
1,1-Dichloropropene	<0.54	ppb	1.39	0.54	ppb
Carbon Tetrachloride	<0.38	ppb	1.39	0.38	ppb
1,2-Dichloroethane	<0.42	ppb	1.39	0.42	ppb
Benzene	<0.39	ppb	1.39	0.39	ppb
Trichloroethene	579000	ppb	174,338	47000	ppb
1,2-Dichloropropane	<0.25	ppb	1.39	0.25	ppb
Bromodichloromethane	<0.26	ppb	1.39	0.26	ppb
Dibromomethane	<0.74	ppb	1.39	0.74	ppb
c-1,3-Dichloropropene	<0.35	ppb	1.39	0.35	ppb
Toluene	23.4	ppb	1.39	0.46	ppb
t-1,3-Dichloropropene	<0.57	ppb	1.39	0.57	ppb
1,1,2-Trichloroethane	<0.68	ppb	1.39	0.68	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #7 (16'- 18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units	
1,3-Dichloropropane	<0.65	ppb	1.39	0.65	ppb	
Tetrachloroethene	6020000	ppb	174,338	51000	ppb	
Dibromochloromethane	<0.4	ppb	1.39	0.4	ppb	
1,2-Dibromoethane	<0.7	ppb	1.39	0.7	ppb	
Chlorobenzene	3.7	ppb	1.39	0.4	ppb	
1,1,1,2-Tetrachloroethane	<0.44	ppb	1.39	0.44	ppb	
Ethylbenzene	2.2	ppb	1.39	0.47	ppb	
m,p-xylene	17.1	ppb	1.39	0.88	ppb	
o-xylene	33.4	ppb	1.39	0.39	ppb	
Styrene	<0.4	ppb	1.39	0.4	ppb	
Isopropylbenzene	41.7	ppb	1.39	0.36	ppb	
Bromoform	<0.67	ppb	1.39	0.67	ppb	
1,1,2,2-Tetrachloroethane	<0.7	ppb	1.39	0.7	ppb	
1,2,3-Trichloropropane	<0.64	ppb	1.39	0.64	ppb	
n-Propylbenzene	<0.57	ppb	1.39	0.57	ppb	
Bromobenzene	<0.61	ppb	1.39	0.61	ppb	
1,3,5-Trimethylbenzene	3310	ppb	872	1050	ppb	
2-Chlorotoluene	<0.36	ppb	1.39	0.36	ppb	
4-Chlorotoluene	<0.47	ppb	1.39	0.47	ppb	
4-Isopropyltoluene	192	ppb	1.39	0.5	ppb	
1,2,4-Trimethylbenzene	51.0	ppb	1.39	0.57	ppb	
sec-Butylbenzene	36.5	ppb	1.39	0.5	ppb	
tert-Butylbenzene	4.4	ppb	1.39	0.72	ppb	
1,3-Dichlorobenzene	22.2	ppb	1.39	0.44	ppb	
1,4-Dichlorobenzene	246	ppb	1.39	0.44	ppb	E
n-Butylbenzene	<0.54	ppb	1.39	0.54	ppb	
1,2-Dichlorobenzene	2410	ppb	872	170	ppb	

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #7 (16'- 18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<1**	ppb	1.39	1	ppb
1,2,4-Trichlorobenzene	**11.1**	ppb	1.39	0.57	ppb
Hexachlorobutadiene	**9.1**	ppb	1.39	0.49	ppb
Naphthalene	**20.0**	ppb	1.39	0.76	ppb
1,2,3-Trichlorobenzene	**<0.42**	ppb	1.39	0.42	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6289
Collected: 04/06/98
Location: SS #7 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<580	ppb	654	580	ppb
Chloromethane	<390	ppb	654	390	ppb
Vinyl Chloride	<290	ppb	654	290	ppb
Bromomethane	<430	ppb	654	430	ppb
Chloroethane	<530	ppb	654	530	ppb
Trichlorofluoromethane	<290	ppb	654	290	ppb
1,1-Dichloroethene	<310	ppb	654	310	ppb
Methylene Chloride	<200	ppb	654	200	ppb
t-1,2-Dichloroethene	<180	ppb	654	180	ppb
1,1-Dichloroethane	<120	ppb	654	120	ppb
2,2-Dichloropropane	<270	ppb	654	270	ppb
c-1,2-Dichloroethene	<220	ppb	654	220	ppb
Chloroform	<170	ppb	654	170	ppb
Bromochloromethane	<200	ppb	654	200	ppb
1,1,1-Trichloroethane	<240	ppb	654	240	ppb
1,1-Dichloropropene	<968	ppb	654	968	ppb
Carbon Tetrachloride	<230	ppb	654	230	ppb
1,2-Dichloroethane	<120	ppb	654	120	ppb
Benzene	<280	ppb	654	280	ppb
Trichloroethene	<180	ppb	654	180	ppb
1,2-Dichloropropane	<180	ppb	654	180	ppb
Bromodichloromethane	<78	ppb	654	78	ppb
Dibromomethane	<200	ppb	654	200	ppb
c-1,3-Dichloropropene	<120	ppb	654	120	ppb
Toluene	<300	ppb	654	300	ppb
t-1,3-Dichloropropene	<140	ppb	654	140	ppb
1,1,2-Trichloroethane	<240	ppb	654	240	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #7 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<72	ppb	654	72	ppb
Tetrachloroethene	6500000	ppb	130,890	38000	ppb
Dibromochloromethane	<120	ppb	654	120	ppb
1,2-Dibromoethane	<92	ppb	654	92	ppb
Chlorobenzene	<140	ppb	654	140	ppb
1,1,1,2-Tetrachloroethane	<210	ppb	654	210	ppb
Ethylbenzene	<140	ppb	654	140	ppb
m,p-xylene	<290	ppb	654	290	ppb
o-xylene	<180	ppb	654	180	ppb
Styrene	<200	ppb	654	200	ppb
Isopropylbenzene	1620	ppb	654	140	ppb
Bromoform	<130	ppb	654	130	ppb
1,1,2,2-Tetrachloroethane	<92	ppb	654	92	ppb
1,2,3-Trichloropropane	<470	ppb	654	470	ppb
n-Propylbenzene	5750	ppb	654	460	ppb
Bromobenzene	<120	ppb	654	120	ppb
1,3,5-Trimethylbenzene	12900	ppb	654	785	ppb
2-Chlorotoluene	<180	ppb	654	180	ppb
4-Chlorotoluene	<92	ppb	654	92	ppb
4-Isopropyltoluene	877	ppb	654	200	ppb
1,2,4-Trimethylbenzene	<2160	ppb	654	2160	ppb
sec-Butylbenzene	<240	ppb	654	240	ppb
tert-Butylbenzene	<200	ppb	654	200	ppb
1,3-Dichlorobenzene	<72	ppb	654	72	ppb
1,4-Dichlorobenzene	2210	ppb	654	92	ppb
n-Butylbenzene	<210	ppb	654	210	ppb
1,2-Dichlorobenzene	11500	ppb	654	120	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #7 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<290**	ppb	654	290	ppb
1,2,4-Trichlorobenzene	**<180**	ppb	654	180	ppb
Hexachlorobutadiene	**<210**	ppb	654	210	ppb
Naphthalene	**<120**	ppb	654	120	ppb
1,2,3-Trichlorobenzene	**<85**	ppb	654	85	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6289
Collected: 04/06/98
Location: SS #4 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<230	ppb	267	230	ppb
Chloromethane	<160	ppb	267	160	ppb
Vinyl Chloride	<120	ppb	267	120	ppb
Bromomethane	<180	ppb	267	180	ppb
Chloroethane	<220	ppb	267	220	ppb
Trichlorofluoromethane	<120	ppb	267	120	ppb
1,1-Dichloroethene	<130	ppb	267	130	ppb
Methylene Chloride	<80	ppb	267	80	ppb
t-1,2-Dichloroethene	<75	ppb	267	75	ppb
1,1-Dichloroethane	<48	ppb	267	48	ppb
2,2-Dichloropropane	<110	ppb	267	110	ppb
c-1,2-Dichloroethene	<91	ppb	267	91	ppb
Chloroform	<69	ppb	267	69	ppb
Bromochloromethane	<80	ppb	267	80	ppb
1,1,1-Trichloroethane	<96	ppb	267	96	ppb
1,1-Dichloropropene	<395	ppb	267	395	ppb
Carbon Tetrachloride	<93	ppb	267	93	ppb
1,2-Dichloroethane	<51	ppb	267	51	ppb
Benzene	<110	ppb	267	110	ppb
Trichloroethene	<72	ppb	267	72	ppb
1,2-Dichloropropane	<72	ppb	267	72	ppb
Bromodichloromethane	<32	ppb	267	32	ppb
Dibromomethane	<83	ppb	267	83	ppb
c-1,3-Dichloropropene	<51	ppb	267	51	ppb
Toluene	<120	ppb	267	120	ppb
t-1,3-Dichloropropene	<56	ppb	267	56	ppb
1,1,2-Trichloroethane	<99	ppb	267	99	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #4 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<29	ppb	267	29	ppb
Tetrachloroethene	<77	ppb	267	77	ppb
Dibromochloromethane	<48	ppb	267	48	ppb
1,2-Dibromoethane	<37	ppb	267	37	ppb
Chlorobenzene	<59	ppb	267	59	ppb
1,1,1,2-Tetrachloroethane	<85	ppb	267	85	ppb
Ethylbenzene	<56	ppb	267	56	ppb
m,p-xylene	<120	ppb	267	120	ppb
o-xylene	<72	ppb	267	72	ppb
Styrene	<80	ppb	267	80	ppb
Isopropylbenzene	<56	ppb	267	56	ppb
Bromoform	<53	ppb	267	53	ppb
1,1,2,2-Tetrachloroethane	<37	ppb	267	37	ppb
1,2,3-Trichloropropane	<190	ppb	267	190	ppb
n-Propylbenzene	<190	ppb	267	190	ppb
Bromobenzene	<51	ppb	267	51	ppb
1,3,5-Trimethylbenzene	<320	ppb	267	320	ppb
2-Chlorotoluene	<72	ppb	267	72	ppb
4-Chlorotoluene	<37	ppb	267	37	ppb
4-Isopropyltoluene	<83	ppb	267	83	ppb
1,2,4-Trimethylbenzene	<881	ppb	267	881	ppb
sec-Butylbenzene	<96	ppb	267	96	ppb
tert-Butylbenzene	<80	ppb	267	80	ppb
1,3-Dichlorobenzene	<29	ppb	267	29	ppb
1,4-Dichlorobenzene	<37	ppb	267	37	ppb
n-Butylbenzene	<85	ppb	267	85	ppb
1,2-Dichlorobenzene	<51	ppb	267	51	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #4 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<120**	ppb	267	120	ppb
1,2,4-Trichlorobenzene	**<72**	ppb	267	72	ppb
Hexachlorobutadiene	**<85**	ppb	267	85	ppb
Naphthalene	**<48**	ppb	267	48	ppb
1,2,3-Trichlorobenzene	**<35**	ppb	267	35	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6289
Collected: 04/06/98
Location: SS #4 (24'- 26')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<130	ppb	145	130	ppb
Chloromethane	<87	ppb	145	87	ppb
Vinyl Chloride	<65	ppb	145	65	ppb
Bromomethane	<96	ppb	145	96	ppb
Chloroethane	<120	ppb	145	120	ppb
Trichlorofluoromethane	<65	ppb	145	65	ppb
1,1-Dichloroethene	<70	ppb	145	70	ppb
Methylene Chloride	<43	ppb	145	43	ppb
t-1,2-Dichloroethene	<41	ppb	145	41	ppb
1,1-Dichloroethane	<26	ppb	145	26	ppb
2,2-Dichloropropane	<59	ppb	145	59	ppb
c-1,2-Dichloroethene	626	ppb	145	49	ppb
Chloroform	<38	ppb	145	38	ppb
Bromochloromethane	<43	ppb	145	43	ppb
1,1,1-Trichloroethane	<52	ppb	145	52	ppb
1,1-Dichloropropene	<215	ppb	145	215	ppb
Carbon Tetrachloride	<51	ppb	145	51	ppb
1,2-Dichloroethane	<28	ppb	145	28	ppb
Benzene	<62	ppb	145	62	ppb
Trichloroethene	<39	ppb	145	39	ppb
1,2-Dichloropropane	<39	ppb	145	39	ppb
Bromodichloromethane	<17	ppb	145	17	ppb
Dibromomethane	<45	ppb	145	45	ppb
c-1,3-Dichloropropene	<28	ppb	145	28	ppb
Toluene	<67	ppb	145	67	ppb
t-1,3-Dichloropropene	<30	ppb	145	30	ppb
1,1,2-Trichloroethane	<54	ppb	145	54	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #4 (24'- 26')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<16	ppb	145	16	ppb
Tetrachloroethene	5470	ppb	145	42	ppb
Dibromochloromethane	<26	ppb	145	26	ppb
1,2-Dibromoethane	<20	ppb	145	20	ppb
Chlorobenzene	<32	ppb	145	32	ppb
1,1,1,2-Tetrachloroethane	<46	ppb	145	46	ppb
Ethylbenzene	<30	ppb	145	30	ppb
m,p-xylene	<65	ppb	145	65	ppb
o-xylene	<39	ppb	145	39	ppb
Styrene	<43	ppb	145	43	ppb
Isopropylbenzene	<30	ppb	145	30	ppb
Bromoform	<29	ppb	145	29	ppb
1,1,2,2-Tetrachloroethane	<20	ppb	145	20	ppb
1,2,3-Trichloropropane	<100	ppb	145	100	ppb
n-Propylbenzene	<100	ppb	145	100	ppb
Bromobenzene	<28	ppb	145	28	ppb
1,3,5-Trimethylbenzene	<174	ppb	145	174	ppb
2-Chlorotoluene	<39	ppb	145	39	ppb
4-Chlorotoluene	<20	ppb	145	20	ppb
4-Isopropyltoluene	<45	ppb	145	45	ppb
1,2,4-Trimethylbenzene	<479	ppb	145	479	ppb
sec-Butylbenzene	<52	ppb	145	52	ppb
tert-Butylbenzene	<43	ppb	145	43	ppb
1,3-Dichlorobenzene	<16	ppb	145	16	ppb
1,4-Dichlorobenzene	<20	ppb	145	20	ppb
n-Butylbenzene	<46	ppb	145	46	ppb
1,2-Dichlorobenzene	<28	ppb	145	28	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6289
Collected: 04/06/98
Location: SS #4 (24'- 26')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks: See case narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	<65	ppb	145	65	ppb
1,2,4-Trichlorobenzene	<39	ppb	145	39	ppb
Hexachlorobutadiene	<46	ppb	145	46	ppb
Naphthalene	<26	ppb	145	26	ppb
1,2,3-Trichlorobenzene	<19	ppb	145	19	ppb

Reviewed by: Peggy Longo PW

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6289
Collected: 04/06/98
Location: SS #7 (16'- 18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/07/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**71.7**	%	1		%

Sample 2
Custody: G6289
Collected: 04/06/98
Location: SS #7 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/07/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**95.5**	%	1		%

Sample 3
Custody: G6289
Collected: 04/06/98
Location: SS #4 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/07/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**93.6**	%	1		%

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member
The Tyree Organization

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ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6289
Received: 04/06/98 4:00 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6289
Collected: 04/06/98
Location: SS #4 (24'- 26')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/07/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	86.0	%	1		%

Reviewed by: Peggy Posey

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL

Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-8344

208 Route 109 • Farmingdale • New York 11735

NY NH MA VT
NJ RI DE ME
CT PA MD VA

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6289

Project Name: 218 Linden [illegible] Project Manager: Jeff Bohlen

Project Address: [illegible] Success

Bill to: [illegible] J/N: 98055 ☐ Rush by / /

Sampler (Signature): Jeff Bohlen (Print):

SAMPLE INFO — **Type:** SS = Split Spoon; G = Grab; C = Composite; B = Blank; **Matrix:** L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe. * Air - include: **Vol. (Liters) Flow (CFM)**

ID	Date	Time	Type	Matrix	Sample Location	601/8010	602/8020	BTX/BTEX	MTBE	624/8240 (8260)	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1 -TRPH
1	9/6/98		SS	S	SS #7 (16'-18')					X									
2	↓		↓	↓	SS #7 (26'-28')					X									
3	↓		↓	↓	SS #4 (18'-20')					X									
4	↓		↓	↓	SS #4 (24'-26')					X									
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

Relinquished by (Signature): [signature]	Date 9/6/98 Time 3:15	Printed Name & Agent: J. [illegible] (AEL)	Received by (Signature):	Date Time	Printed Name & Agent:
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions:		Disposal Facility:
Received for Lab by (Signature): [signature]	Date 9/6/98 Time [illegible]	Printed Name: [illegible]	Number & Type of Containers: 3-4oz + 5-2oz		Preservatives:

4/7/98 [illegible]

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

Case Narrative

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6284

Print Date: 04/21/98

EPA 8260:

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6284
Collected: 04/08/98
Location: SS #2 (12'- 14')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**91.4**	%	1		%

Sample 2
Custody: G6284
Collected: 04/08/98
Location: SS #2 (30'- 32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**85.7**	%	1		%

Sample 3
Custody: G6284
Collected: 04/08/98
Location: SS #3 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**69.5**	%	1		%

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6284
Collected: 04/08/98
Location: SS #3 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**92.9**	%	1		%

Sample 5
Custody: G6284
Collected: 04/08/98
Location: SS #1 (2'- 4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**87.4**	%	1		%

Reviewed by:

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6284
Collected: 04/08/98
Location: SS #2 (12'- 14')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.7	ppb	1.09	0.7	ppb
Chloromethane	<0.37	ppb	1.09	0.37	ppb
Vinyl Chloride	<0.65	ppb	1.09	0.65	ppb
Bromomethane	<0.43	ppb	1.09	0.43	ppb
Chloroethane	<0.21	ppb	1.09	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.09	0.12	ppb
1,1-Dichloroethene	<0.23	ppb	1.09	0.23	ppb
Methylene Chloride	<0.64	ppb	1.09	0.64	ppb
t-1,2-Dichloroethene	<0.45	ppb	1.09	0.45	ppb
1,1-Dichloroethane	<0.17	ppb	1.09	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.09	0.25	ppb
c-1,2-Dichloroethene	<0.55	ppb	1.09	0.55	ppb
Chloroform	<0.19	ppb	1.09	0.19	ppb
Bromochloromethane	<0.27	ppb	1.09	0.27	ppb
1,1,1-Trichloroethane	<0.31	ppb	1.09	0.31	ppb
1,1-Dichloropropene	<0.43	ppb	1.09	0.43	ppb
Carbon Tetrachloride	<0.29	ppb	1.09	0.29	ppb
1,2-Dichloroethane	<0.33	ppb	1.09	0.33	ppb
Benzene	<0.31	ppb	1.09	0.31	ppb
Trichloroethene	<0.33	ppb	1.09	0.33	ppb
1,2-Dichloropropane	<0.2	ppb	1.09	0.2	ppb
Bromodichloromethane	<0.21	ppb	1.09	0.21	ppb
Dibromomethane	<0.58	ppb	1.09	0.58	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.09	0.27	ppb
Toluene	<0.36	ppb	1.09	0.36	ppb
t-1,3-Dichloropropene	<0.45	ppb	1.09	0.45	ppb
1,1,2-Trichloroethane	<0.53	ppb	1.09	0.53	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #2 (12'- 14')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.51	ppb	1.09	0.51	ppb
Tetrachloroethene	14.9	ppb	1.09	0.31	ppb
Dibromochloromethane	<0.32	ppb	1.09	0.32	ppb
1,2-Dibromoethane	<0.55	ppb	1.09	0.55	ppb
Chlorobenzene	<0.32	ppb	1.09	0.32	ppb
1,1,1,2-Tetrachloroethane	<0.35	ppb	1.09	0.35	ppb
Ethylbenzene	<0.37	ppb	1.09	0.37	ppb
m,p-xylene	<0.69	ppb	1.09	0.69	ppb
o-xylene	<0.31	ppb	1.09	0.31	ppb
Styrene	<0.32	ppb	1.09	0.32	ppb
Isopropylbenzene	<0.28	ppb	1.09	0.28	ppb
Bromoform	<0.52	ppb	1.09	0.52	ppb
1,1,2,2-Tetrachloroethane	<0.55	ppb	1.09	0.55	ppb
1,2,3-Trichloropropane	<0.5	ppb	1.09	0.5	ppb
n-Propylbenzene	<0.45	ppb	1.09	0.45	ppb
Bromobenzene	<0.48	ppb	1.09	0.48	ppb
1,3,5-Trimethylbenzene	<0.33	ppb	1.09	0.33	ppb
2-Chlorotoluene	<0.28	ppb	1.09	0.28	ppb
4-Chlorotoluene	<0.37	ppb	1.09	0.37	ppb
4-Isopropyltoluene	<0.39	ppb	1.09	0.39	ppb
1,2,4-Trimethylbenzene	<0.45	ppb	1.09	0.45	ppb
sec-Butylbenzene	<0.39	ppb	1.09	0.39	ppb
tert-Butylbenzene	<0.57	ppb	1.09	0.57	ppb
1,3-Dichlorobenzene	<0.35	ppb	1.09	0.35	ppb
1,4-Dichlorobenzene	<0.35	ppb	1.09	0.35	ppb
n-Butylbenzene	<0.43	ppb	1.09	0.43	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.09	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #2 (12'- 14')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.78**	ppb	1.09	0.78	ppb
1,2,4-Trichlorobenzene	**<0.45**	ppb	1.09	0.45	ppb
Hexachlorobutadiene	**<0.38**	ppb	1.09	0.38	ppb
Naphthalene	**<0.6**	ppb	1.09	0.6	ppb
1,2,3-Trichlorobenzene	**<0.33**	ppb	1.09	0.33	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6284
Collected: 04/08/98
Location: SS #2 (30'- 32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.75	ppb	1.17	0.75	ppb
Chloromethane	<0.4	ppb	1.17	0.4	ppb
Vinyl Chloride	<0.7	ppb	1.17	0.7	ppb
Bromomethane	<0.46	ppb	1.17	0.46	ppb
Chloroethane	<0.22	ppb	1.17	0.22	ppb
Trichlorofluoromethane	<0.13	ppb	1.17	0.13	ppb
1,1-Dichloroethene	<0.25	ppb	1.17	0.25	ppb
Methylene Chloride	<0.69	ppb	1.17	0.69	ppb
t-1,2-Dichloroethene	<0.48	ppb	1.17	0.48	ppb
1,1-Dichloroethane	<0.19	ppb	1.17	0.19	ppb
2,2-Dichloropropane	<0.27	ppb	1.17	0.27	ppb
c-1,2-Dichloroethene	<0.58	ppb	1.17	0.58	ppb
Chloroform	<0.2	ppb	1.17	0.2	ppb
Bromochloromethane	<0.29	ppb	1.17	0.29	ppb
1,1,1-Trichloroethane	<0.33	ppb	1.17	0.33	ppb
1,1-Dichloropropene	<0.46	ppb	1.17	0.46	ppb
Carbon Tetrachloride	<0.32	ppb	1.17	0.32	ppb
1,2-Dichloroethane	<0.35	ppb	1.17	0.35	ppb
Benzene	<0.33	ppb	1.17	0.33	ppb
Trichloroethene	<0.35	ppb	1.17	0.35	ppb
1,2-Dichloropropane	<0.21	ppb	1.17	0.21	ppb
Bromodichloromethane	<0.22	ppb	1.17	0.22	ppb
Dibromomethane	<0.62	ppb	1.17	0.62	ppb
c-1,3-Dichloropropene	<0.29	ppb	1.17	0.29	ppb
Toluene	<0.39	ppb	1.17	0.39	ppb
t-1,3-Dichloropropene	<0.48	ppb	1.17	0.48	ppb
1,1,2-Trichloroethane	<0.57	ppb	1.17	0.57	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #2 (30'- 32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.55	ppb	1.17	0.55	ppb
Tetrachloroethene	10.5	ppb	1.17	0.33	ppb
Dibromochloromethane	<0.34	ppb	1.17	0.34	ppb
1,2-Dibromoethane	<0.58	ppb	1.17	0.58	ppb
Chlorobenzene	<0.34	ppb	1.17	0.34	ppb
1,1,1,2-Tetrachloroethane	<0.37	ppb	1.17	0.37	ppb
Ethylbenzene	<0.4	ppb	1.17	0.4	ppb
m,p-xylene	<0.74	ppb	1.17	0.74	ppb
o-xylene	<0.33	ppb	1.17	0.33	ppb
Styrene	<0.34	ppb	1.17	0.34	ppb
Isopropylbenzene	<0.3	ppb	1.17	0.3	ppb
Bromoform	<0.56	ppb	1.17	0.56	ppb
1,1,2,2-Tetrachloroethane	<0.58	ppb	1.17	0.58	ppb
1,2,3-Trichloropropane	<0.54	ppb	1.17	0.54	ppb
n-Propylbenzene	<0.48	ppb	1.17	0.48	ppb
Bromobenzene	<0.51	ppb	1.17	0.51	ppb
1,3,5-Trimethylbenzene	<0.35	ppb	1.17	0.35	ppb
2-Chlorotoluene	<0.3	ppb	1.17	0.3	ppb
4-Chlorotoluene	<0.4	ppb	1.17	0.4	ppb
4-Isopropyltoluene	<0.42	ppb	1.17	0.42	ppb
1,2,4-Trimethylbenzene	<0.48	ppb	1.17	0.48	ppb
sec-Butylbenzene	<0.42	ppb	1.17	0.42	ppb
tert-Butylbenzene	<0.61	ppb	1.17	0.61	ppb
1,3-Dichlorobenzene	<0.37	ppb	1.17	0.37	ppb
1,4-Dichlorobenzene	<0.37	ppb	1.17	0.37	ppb
n-Butylbenzene	<0.46	ppb	1.17	0.46	ppb
1,2-Dichlorobenzene	<0.32	ppb	1.17	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #2 (30'- 32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.84**	ppb	1.17	0.84	ppb
1,2,4-Trichlorobenzene	**<0.48**	ppb	1.17	0.48	ppb
Hexachlorobutadiene	**<0.41**	ppb	1.17	0.41	ppb
Naphthalene	**<0.64**	ppb	1.17	0.64	ppb
1,2,3-Trichlorobenzene	**<0.35**	ppb	1.17	0.35	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6284
Collected: 04/08/98
Location: SS #3 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.92	ppb	1.44	0.92	ppb
Chloromethane	<0.49	ppb	1.44	0.49	ppb
Vinyl Chloride	<0.86	ppb	1.44	0.86	ppb
Bromomethane	<0.56	ppb	1.44	0.56	ppb
Chloroethane	<0.27	ppb	1.44	0.27	ppb
Trichlorofluoromethane	<0.16	ppb	1.44	0.16	ppb
1,1-Dichloroethene	<0.3	ppb	1.44	0.3	ppb
Methylene Chloride	<0.85	ppb	1.44	0.85	ppb
t-1,2-Dichloroethene	<0.59	ppb	1.44	0.59	ppb
1,1-Dichloroethane	<0.23	ppb	1.44	0.23	ppb
2,2-Dichloropropane	<0.33	ppb	1.44	0.33	ppb
c-1,2-Dichloroethene	<0.72	ppb	1.44	0.72	ppb
Chloroform	<0.24	ppb	1.44	0.24	ppb
Bromochloromethane	<0.36	ppb	1.44	0.36	ppb
1,1,1-Trichloroethane	<0.4	ppb	1.44	0.4	ppb
1,1-Dichloropropene	<0.56	ppb	1.44	0.56	ppb
Carbon Tetrachloride	<0.39	ppb	1.44	0.39	ppb
1,2-Dichloroethane	<0.43	ppb	1.44	0.43	ppb
Benzene	<0.4	ppb	1.44	0.4	ppb
Trichloroethene	<0.43	ppb	1.44	0.43	ppb
1,2-Dichloropropane	<0.26	ppb	1.44	0.26	ppb
Bromodichloromethane	<0.27	ppb	1.44	0.27	ppb
Dibromomethane	<0.76	ppb	1.44	0.76	ppb
c-1,3-Dichloropropene	<0.36	ppb	1.44	0.36	ppb
Toluene	<0.48	ppb	1.44	0.48	ppb
t-1,3-Dichloropropene	<0.59	ppb	1.44	0.59	ppb
1,1,2-Trichloroethane	<0.71	ppb	1.44	0.71	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #3 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.68	ppb	1.44	0.68	ppb
Tetrachloroethene	26.4	ppb	1.44	0.4	ppb
Dibromochloromethane	<0.42	ppb	1.44	0.42	ppb
1,2-Dibromoethane	<0.72	ppb	1.44	0.72	ppb
Chlorobenzene	<0.42	ppb	1.44	0.42	ppb
1,1,1,2-Tetrachloroethane	<0.46	ppb	1.44	0.46	ppb
Ethylbenzene	<0.49	ppb	1.44	0.49	ppb
m,p-xylene	<0.91	ppb	1.44	0.91	ppb
o-xylene	<0.4	ppb	1.44	0.4	ppb
Styrene	<0.42	ppb	1.44	0.42	ppb
Isopropylbenzene	<0.37	ppb	1.44	0.37	ppb
Bromoform	<0.69	ppb	1.44	0.69	ppb
1,1,2,2-Tetrachloroethane	<0.72	ppb	1.44	0.72	ppb
1,2,3-Trichloropropane	<0.66	ppb	1.44	0.66	ppb
n-Propylbenzene	<0.59	ppb	1.44	0.59	ppb
Bromobenzene	<0.63	ppb	1.44	0.63	ppb
1,3,5-Trimethylbenzene	<0.43	ppb	1.44	0.43	ppb
2-Chlorotoluene	<0.37	ppb	1.44	0.37	ppb
4-Chlorotoluene	<0.49	ppb	1.44	0.49	ppb
4-Isopropyltoluene	<0.52	ppb	1.44	0.52	ppb
1,2,4-Trimethylbenzene	<0.59	ppb	1.44	0.59	ppb
sec-Butylbenzene	<0.52	ppb	1.44	0.52	ppb
tert-Butylbenzene	<0.75	ppb	1.44	0.75	ppb
1,3-Dichlorobenzene	<0.46	ppb	1.44	0.46	ppb
1,4-Dichlorobenzene	<0.46	ppb	1.44	0.46	ppb
n-Butylbenzene	<0.56	ppb	1.44	0.56	ppb
1,2-Dichlorobenzene	<0.39	ppb	1.44	0.39	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #3 (18'- 20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<1**	ppb	1.44	1	ppb
1,2,4-Trichlorobenzene	**<0.59**	ppb	1.44	0.59	ppb
Hexachlorobutadiene	**<0.5**	ppb	1.44	0.5	ppb
Naphthalene	**<0.79**	ppb	1.44	0.79	ppb
1,2,3-Trichlorobenzene	**<0.43**	ppb	1.44	0.43	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6284
Collected: 04/08/98
Location: SS #3 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.69	ppb	1.08	0.69	ppb
Chloromethane	<0.37	ppb	1.08	0.37	ppb
Vinyl Chloride	<0.65	ppb	1.08	0.65	ppb
Bromomethane	<0.42	ppb	1.08	0.42	ppb
Chloroethane	<0.21	ppb	1.08	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.08	0.12	ppb
1,1-Dichloroethene	<0.23	ppb	1.08	0.23	ppb
Methylene Chloride	<0.64	ppb	1.08	0.64	ppb
t-1,2-Dichloroethene	<0.44	ppb	1.08	0.44	ppb
1,1-Dichloroethane	<0.17	ppb	1.08	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.08	0.25	ppb
c-1,2-Dichloroethene	<0.54	ppb	1.08	0.54	ppb
Chloroform	<0.18	ppb	1.08	0.18	ppb
Bromochloromethane	<0.27	ppb	1.08	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.08	0.3	ppb
1,1-Dichloropropene	<0.42	ppb	1.08	0.42	ppb
Carbon Tetrachloride	<0.29	ppb	1.08	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.08	0.32	ppb
Benzene	<0.3	ppb	1.08	0.3	ppb
Trichloroethene	<0.32	ppb	1.08	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.08	0.19	ppb
Bromodichloromethane	<0.21	ppb	1.08	0.21	ppb
Dibromomethane	<0.57	ppb	1.08	0.57	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.08	0.27	ppb
Toluene	<0.36	ppb	1.08	0.36	ppb
t-1,3-Dichloropropene	<0.44	ppb	1.08	0.44	ppb
1,1,2-Trichloroethane	<0.53	ppb	1.08	0.53	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #3 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.51	ppb	1.08	0.51	ppb
Tetrachloroethene	8.2	ppb	1.08	0.3	ppb
Dibromochloromethane	<0.31	ppb	1.08	0.31	ppb
1,2-Dibromoethane	<0.54	ppb	1.08	0.54	ppb
Chlorobenzene	<0.31	ppb	1.08	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.35	ppb	1.08	0.35	ppb
Ethylbenzene	<0.37	ppb	1.08	0.37	ppb
m,p-xylene	<0.68	ppb	1.08	0.68	ppb
o-xylene	<0.3	ppb	1.08	0.3	ppb
Styrene	1.7	ppb	1.08	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.08	0.28	ppb
Bromoform	<0.52	ppb	1.08	0.52	ppb
1,1,2,2-Tetrachloroethane	<0.54	ppb	1.08	0.54	ppb
1,2,3-Trichloropropane	<0.5	ppb	1.08	0.5	ppb
n-Propylbenzene	<0.44	ppb	1.08	0.44	ppb
Bromobenzene	<0.48	ppb	1.08	0.48	ppb
1,3,5-Trimethylbenzene	<0.32	ppb	1.08	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.08	0.28	ppb
4-Chlorotoluene	<0.37	ppb	1.08	0.37	ppb
4-Isopropyltoluene	<0.39	ppb	1.08	0.39	ppb
1,2,4-Trimethylbenzene	<0.44	ppb	1.08	0.44	ppb
sec-Butylbenzene	<0.39	ppb	1.08	0.39	ppb
tert-Butylbenzene	<0.56	ppb	1.08	0.56	ppb
1,3-Dichlorobenzene	<0.35	ppb	1.08	0.35	ppb
1,4-Dichlorobenzene	<0.35	ppb	1.08	0.35	ppb
n-Butylbenzene	<0.42	ppb	1.08	0.42	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.08	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #3 (26'- 28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.78**	ppb	1.08	0.78	ppb
1,2,4-Trichlorobenzene	**<0.44**	ppb	1.08	0.44	ppb
Hexachlorobutadiene	**<0.38**	ppb	1.08	0.38	ppb
Naphthalene	**<0.59**	ppb	1.08	0.59	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.08	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6284
Collected: 04/08/98
Location: SS #1 (2'- 4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.73	ppb	1.14	0.73	ppb
Chloromethane	<0.39	ppb	1.14	0.39	ppb
Vinyl Chloride	<0.68	ppb	1.14	0.68	ppb
Bromomethane	<0.44	ppb	1.14	0.44	ppb
Chloroethane	<0.22	ppb	1.14	0.22	ppb
Trichlorofluoromethane	<0.13	ppb	1.14	0.13	ppb
1,1-Dichloroethene	<0.24	ppb	1.14	0.24	ppb
Methylene Chloride	<0.67	ppb	1.14	0.67	ppb
t-1,2-Dichloroethene	<0.47	ppb	1.14	0.47	ppb
1,1-Dichloroethane	<0.18	ppb	1.14	0.18	ppb
2,2-Dichloropropane	<0.26	ppb	1.14	0.26	ppb
c-1,2-Dichloroethene	1.4	ppb	1.14	0.57	ppb
Chloroform	<0.19	ppb	1.14	0.19	ppb
Bromochloromethane	<0.29	ppb	1.14	0.29	ppb
1,1,1-Trichloroethane	<0.32	ppb	1.14	0.32	ppb
1,1-Dichloropropene	<0.44	ppb	1.14	0.44	ppb
Carbon Tetrachloride	<0.31	ppb	1.14	0.31	ppb
1,2-Dichloroethane	<0.34	ppb	1.14	0.34	ppb
Benzene	<0.32	ppb	1.14	0.32	ppb
Trichloroethene	<0.34	ppb	1.14	0.34	ppb
1,2-Dichloropropane	<0.21	ppb	1.14	0.21	ppb
Bromodichloromethane	<0.22	ppb	1.14	0.22	ppb
Dibromomethane	<0.6	ppb	1.14	0.6	ppb
c-1,3-Dichloropropene	<0.29	ppb	1.14	0.29	ppb
Toluene	1.7	ppb	1.14	0.38	ppb
t-1,3-Dichloropropene	<0.47	ppb	1.14	0.47	ppb
1,1,2-Trichloroethane	<0.56	ppb	1.14	0.56	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #1 (2'- 4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.54	ppb	1.14	0.54	ppb
Tetrachloroethene	195	ppb	143	41	ppb
Dibromochloromethane	<0.33	ppb	1.14	0.33	ppb
1,2-Dibromoethane	<0.57	ppb	1.14	0.57	ppb
Chlorobenzene	<0.33	ppb	1.14	0.33	ppb
1,1,1,2-Tetrachloroethane	<0.36	ppb	1.14	0.36	ppb
Ethylbenzene	<0.39	ppb	1.14	0.39	ppb
m,p-xylene	2.7	ppb	1.14	0.72	ppb
o-xylene	1.5	ppb	1.14	0.32	ppb
Styrene	<0.33	ppb	1.14	0.33	ppb
Isopropylbenzene	<0.3	ppb	1.14	0.3	ppb
Bromoform	<0.55	ppb	1.14	0.55	ppb
1,1,2,2-Tetrachloroethane	<0.57	ppb	1.14	0.57	ppb
1,2,3-Trichloropropane	<0.52	ppb	1.14	0.52	ppb
n-Propylbenzene	<0.47	ppb	1.14	0.47	ppb
Bromobenzene	<0.5	ppb	1.14	0.5	ppb
1,3,5-Trimethylbenzene	1.6	ppb	1.14	0.34	ppb
2-Chlorotoluene	<0.3	ppb	1.14	0.3	ppb
4-Chlorotoluene	<0.39	ppb	1.14	0.39	ppb
4-Isopropyltoluene	<0.41	ppb	1.14	0.41	ppb
1,2,4-Trimethylbenzene	2.1	ppb	1.14	0.47	ppb
sec-Butylbenzene	<0.41	ppb	1.14	0.41	ppb
tert-Butylbenzene	<0.59	ppb	1.14	0.59	ppb
1,3-Dichlorobenzene	<0.36	ppb	1.14	0.36	ppb
1,4-Dichlorobenzene	<0.36	ppb	1.14	0.36	ppb
n-Butylbenzene	<0.44	ppb	1.14	0.44	ppb
1,2-Dichlorobenzene	<0.31	ppb	1.14	0.31	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6284
Received: 04/08/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6284
Collected: 04/08/98
Location: SS #1 (2'- 4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.82**	ppb	1.14	0.82	ppb
1,2,4-Trichlorobenzene	**<0.47**	ppb	1.14	0.47	ppb
Hexachlorobutadiene	**<0.4**	ppb	1.14	0.4	ppb
Naphthalene	**<0.63**	ppb	1.14	0.63	ppb
1,2,3-Trichlorobenzene	**<0.34**	ppb	1.14	0.34	ppb

Reviewed by: Peggy Jones

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL

Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-8344

208 Route 109 • Farmingdale • New York 11735

NY NH MA VT
NJ RI DE ME
CT PA MD VA

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6284

Project Name: 218 [illegible] Rd | Project Manager: [illegible]

Sampler (Signature): | (Print):

Project Address: Lake Success

Bill to: [illegible] J/N: [illegible] ☐ Rush by / /

SAMPLE INFO — Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank. Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe. * Air - include: Vol. (Liters) Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	601/8010	602/8020	BTX/BTEX	MTBE	624/8240/8260	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1 -TRPH
1	7/8/98		SS	S	SS#2 (12-14)					X									
2	↓		↓	↓	SS#2 (10-12)					↓									
3	↓		↓	↓	SS#3 (18-20)					↓									
4	↓		↓	↓	SS#3 (6-8)					↓									
5	↓		↓	↓	SS#1 (2-4)					↓									
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent:
[signature]	Date 4/8/98 Time 3:50	Jeff Bohlen (HEL)		Date Time	

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Comments & Special Instructions:	Disposal Facility:
	Date Time			

Received for Lab by (Signature):	Date / Time	Printed Name:	Number & Type of Containers:	Preservatives:
[signature]	Date 4/8/98 Time 3:50pm	Pauline Frank	5-2oz / 5-8oz (5°C)	

4/9/98

Environmental Testing Laboratories, Inc.
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Case Narrative

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6285

Print Date: 04/22/98

EPA 8260:

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6285
Collected: 04/10/98
Location: SS #11 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	**<0.76**	ppb	1.19	0.76	ppb
Chloromethane	**<0.4**	ppb	1.19	0.4	ppb
Vinyl Chloride	**<0.71**	ppb	1.19	0.71	ppb
Bromomethane	**<0.46**	ppb	1.19	0.46	ppb
Chloroethane	**<0.23**	ppb	1.19	0.23	ppb
Trichlorofluoromethane	**<0.13**	ppb	1.19	0.13	ppb
1,1-Dichloroethene	**<0.25**	ppb	1.19	0.25	ppb
Methylene Chloride	**<0.7**	ppb	1.19	0.7	ppb
t-1,2-Dichloroethene	**<0.49**	ppb	1.19	0.49	ppb
1,1-Dichloroethane	**<0.19**	ppb	1.19	0.19	ppb
2,2-Dichloropropane	**<0.27**	ppb	1.19	0.27	ppb
c-1,2-Dichloroethene	**<0.59**	ppb	1.19	0.59	ppb
Chloroform	**<0.2**	ppb	1.19	0.2	ppb
Bromochloromethane	**<0.3**	ppb	1.19	0.3	ppb
1,1,1-Trichloroethane	**<0.33**	ppb	1.19	0.33	ppb
1,1-Dichloropropene	**<0.46**	ppb	1.19	0.46	ppb
Carbon Tetrachloride	**<0.32**	ppb	1.19	0.32	ppb
1,2-Dichloroethane	**<0.36**	ppb	1.19	0.36	ppb
Benzene	**1.2**	ppb	1.19	0.33	ppb
Trichloroethene	**<0.36**	ppb	1.19	0.36	ppb
1,2-Dichloropropane	**<0.21**	ppb	1.19	0.21	ppb
Bromodichloromethane	**<0.23**	ppb	1.19	0.23	ppb
Dibromomethane	**<0.63**	ppb	1.19	0.63	ppb
c-1,3-Dichloropropene	**<0.3**	ppb	1.19	0.3	ppb
Toluene	**1.1**	ppb	1.19	0.39	ppb
t-1,3-Dichloropropene	**<0.49**	ppb	1.19	0.49	ppb
1,1,2-Trichloroethane	**<0.58**	ppb	1.19	0.58	ppb
1,3-Dichloropropane	**<0.56**	ppb	1.19	0.56	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member
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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #11 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Tetrachloroethene	**3.7**	ppb	1.19	0.33	ppb
Dibromochloromethane	**<0.35**	ppb	1.19	0.35	ppb
1,2-Dibromoethane	**<0.59**	ppb	1.19	0.59	ppb
Chlorobenzene	**<0.35**	ppb	1.19	0.35	ppb
1,1,1,2-Tetrachloroethane	**<0.38**	ppb	1.19	0.38	ppb
Ethylbenzene	**<0.4**	ppb	1.19	0.4	ppb
m,p-xylene	**1.9**	ppb	1.19	0.75	ppb
o-xylene	**<0.33**	ppb	1.19	0.33	ppb
Styrene	**<0.35**	ppb	1.19	0.35	ppb
Isopropylbenzene	**<0.31**	ppb	1.19	0.31	ppb
Bromoform	**<0.57**	ppb	1.19	0.57	ppb
1,1,2,2-Tetrachloroethane	**<0.59**	ppb	1.19	0.59	ppb
1,2,3-Trichloropropane	**<0.55**	ppb	1.19	0.55	ppb
n-Propylbenzene	**<0.49**	ppb	1.19	0.49	ppb
Bromobenzene	**<0.52**	ppb	1.19	0.52	ppb
1,3,5-Trimethylbenzene	**<0.36**	ppb	1.19	0.36	ppb
2-Chlorotoluene	**<0.31**	ppb	1.19	0.31	ppb
4-Chlorotoluene	**<0.4**	ppb	1.19	0.4	ppb
4-Isopropyltoluene	**<0.43**	ppb	1.19	0.43	ppb
1,2,4-Trimethylbenzene	**<0.49**	ppb	1.19	0.49	ppb
sec-Butylbenzene	**<0.43**	ppb	1.19	0.43	ppb
tert-Butylbenzene	**<0.62**	ppb	1.19	0.62	ppb
1,3-Dichlorobenzene	**<0.38**	ppb	1.19	0.38	ppb
1,4-Dichlorobenzene	**<0.38**	ppb	1.19	0.38	ppb
n-Butylbenzene	**<0.46**	ppb	1.19	0.46	ppb
1,2-Dichlorobenzene	**<0.32**	ppb	1.19	0.32	ppb
1,2-Dibromo-3-chloropropane	**<0.86**	ppb	1.19	0.86	ppb
1,2,4-Trichlorobenzene	**<0.49**	ppb	1.19	0.49	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #11 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Hexachlorobutadiene	**<0.42**	ppb	1.19	0.42	ppb
Naphthalene	**<0.65**	ppb	1.19	0.65	ppb
1,2,3-Trichlorobenzene	**<0.36**	ppb	1.19	0.36	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6285
Collected: 04/10/98
Location: SS #11 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	**<1.3**	ppb	2.09	1.3	ppb
Chloromethane	**<0.71**	ppb	2.09	0.71	ppb
Vinyl Chloride	**<1.3**	ppb	2.09	1.3	ppb
Bromomethane	**<0.82**	ppb	2.09	0.82	ppb
Chloroethane	**<0.4**	ppb	2.09	0.4	ppb
Trichlorofluoromethane	**<0.23**	ppb	2.09	0.23	ppb
1,1-Dichloroethene	**<0.44**	ppb	2.09	0.44	ppb
Methylene Chloride	**<1.2**	ppb	2.09	1.2	ppb
t-1,2-Dichloroethene	**<0.86**	ppb	2.09	0.86	ppb
1,1-Dichloroethane	**<0.33**	ppb	2.09	0.33	ppb
2,2-Dichloropropane	**<0.48**	ppb	2.09	0.48	ppb
c-1,2-Dichloroethene	**<1**	ppb	2.09	1	ppb
Chloroform	**<0.36**	ppb	2.09	0.36	ppb
Bromochloromethane	**<0.52**	ppb	2.09	0.52	ppb
1,1,1-Trichloroethane	**<0.59**	ppb	2.09	0.59	ppb
1,1-Dichloropropene	**<0.82**	ppb	2.09	0.82	ppb
Carbon Tetrachloride	**<0.56**	ppb	2.09	0.56	ppb
1,2-Dichloroethane	**<0.63**	ppb	2.09	0.63	ppb
Benzene	**<0.59**	ppb	2.09	0.59	ppb
Trichloroethene	**<0.63**	ppb	2.09	0.63	ppb
1,2-Dichloropropane	**<0.38**	ppb	2.09	0.38	ppb
Bromodichloromethane	**<0.4**	ppb	2.09	0.4	ppb
Dibromomethane	**<1.1**	ppb	2.09	1.1	ppb
c-1,3-Dichloropropene	**<0.52**	ppb	2.09	0.52	ppb
Toluene	**<0.69**	ppb	2.09	0.69	ppb
t-1,3-Dichloropropene	**<0.86**	ppb	2.09	0.86	ppb
1,1,2-Trichloroethane	**<1**	ppb	2.09	1	ppb
1,3-Dichloropropane	**<0.98**	ppb	2.09	0.98	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #11 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Tetrachloroethene	**4.8**	ppb	2.09	0.59	ppb
Dibromochloromethane	**<0.61**	ppb	2.09	0.61	ppb
1,2-Dibromoethane	**<1**	ppb	2.09	1	ppb
Chlorobenzene	**<0.61**	ppb	2.09	0.61	ppb
1,1,1,2-Tetrachloroethane	**<0.67**	ppb	2.09	0.67	ppb
Ethylbenzene	**<0.71**	ppb	2.09	0.71	ppb
m,p-xylene	**<1.3**	ppb	2.09	1.3	ppb
o-xylene	**<0.59**	ppb	2.09	0.59	ppb
Styrene	**<0.61**	ppb	2.09	0.61	ppb
Isopropylbenzene	**<0.54**	ppb	2.09	0.54	ppb
Bromoform	**<1**	ppb	2.09	1	ppb
1,1,2,2-Tetrachloroethane	**<1**	ppb	2.09	1	ppb
1,2,3-Trichloropropane	**<0.96**	ppb	2.09	0.96	ppb
n-Propylbenzene	**<0.86**	ppb	2.09	0.86	ppb
Bromobenzene	**<0.92**	ppb	2.09	0.92	ppb
1,3,5-Trimethylbenzene	**<0.63**	ppb	2.09	0.63	ppb
2-Chlorotoluene	**<0.54**	ppb	2.09	0.54	ppb
4-Chlorotoluene	**<0.71**	ppb	2.09	0.71	ppb
4-Isopropyltoluene	**<0.75**	ppb	2.09	0.75	ppb
1,2,4-Trimethylbenzene	**<0.86**	ppb	2.09	0.86	ppb
sec-Butylbenzene	**<0.75**	ppb	2.09	0.75	ppb
tert-Butylbenzene	**<1.1**	ppb	2.09	1.1	ppb
1,3-Dichlorobenzene	**<0.67**	ppb	2.09	0.67	ppb
1,4-Dichlorobenzene	**<0.67**	ppb	2.09	0.67	ppb
n-Butylbenzene	**<0.82**	ppb	2.09	0.82	ppb
1,2-Dichlorobenzene	**<0.56**	ppb	2.09	0.56	ppb
1,2-Dibromo-3-chloropropane	**<1.5**	ppb	2.09	1.5	ppb
1,2,4-Trichlorobenzene	**<0.86**	ppb	2.09	0.86	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #11 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Hexachlorobutadiene	**<0.73**	ppb	2.09	0.73	ppb
Naphthalene	**<1.1**	ppb	2.09	1.1	ppb
1,2,3-Trichlorobenzene	**<0.63**	ppb	2.09	0.63	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6285
Collected: 04/10/98
Location: SS #14 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	**<1.5**	ppb	2.31	1.5	ppb
Chloromethane	**<0.79**	ppb	2.31	0.79	ppb
Vinyl Chloride	**<1.4**	ppb	2.31	1.4	ppb
Bromomethane	**<0.9**	ppb	2.31	0.9	ppb
Chloroethane	**<0.44**	ppb	2.31	0.44	ppb
Trichlorofluoromethane	**<0.25**	ppb	2.31	0.25	ppb
1,1-Dichloroethene	**<0.49**	ppb	2.31	0.49	ppb
Methylene Chloride	**<1.4**	ppb	2.31	1.4	ppb
t-1,2-Dichloroethene	**<0.95**	ppb	2.31	0.95	ppb
1,1-Dichloroethane	**<0.37**	ppb	2.31	0.37	ppb
2,2-Dichloropropane	**<0.53**	ppb	2.31	0.53	ppb
c-1,2-Dichloroethene	**<1.2**	ppb	2.31	1.2	ppb
Chloroform	**<0.39**	ppb	2.31	0.39	ppb
Bromochloromethane	**<0.58**	ppb	2.31	0.58	ppb
1,1,1-Trichloroethane	**<0.65**	ppb	2.31	0.65	ppb
1,1-Dichloropropene	**<0.9**	ppb	2.31	0.9	ppb
Carbon Tetrachloride	**<0.62**	ppb	2.31	0.62	ppb
1,2-Dichloroethane	**<0.69**	ppb	2.31	0.69	ppb
Benzene	**<0.65**	ppb	2.31	0.65	ppb
Trichloroethene	**<0.69**	ppb	2.31	0.69	ppb
1,2-Dichloropropane	**<0.42**	ppb	2.31	0.42	ppb
Bromodichloromethane	**<0.44**	ppb	2.31	0.44	ppb
Dibromomethane	**<1.2**	ppb	2.31	1.2	ppb
c-1,3-Dichloropropene	**<0.58**	ppb	2.31	0.58	ppb
Toluene	**2.7**	ppb	2.31	0.76	ppb
t-1,3-Dichloropropene	**<0.95**	ppb	2.31	0.95	ppb
1,1,2-Trichloroethane	**<1.1**	ppb	2.31	1.1	ppb
1,3-Dichloropropane	**<1.1**	ppb	2.31	1.1	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #14 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Tetrachloroethene	**78.5**	ppb	2.31	0.65	ppb
Dibromochloromethane	**<0.67**	ppb	2.31	0.67	ppb
1,2-Dibromoethane	**<1.2**	ppb	2.31	1.2	ppb
Chlorobenzene	**<0.67**	ppb	2.31	0.67	ppb
1,1,1,2-Tetrachloroethane	**<0.74**	ppb	2.31	0.74	ppb
Ethylbenzene	**<0.79**	ppb	2.31	0.79	ppb
m,p-xylene	**5.7**	ppb	2.31	1.5	ppb
o-xylene	**3.1**	ppb	2.31	0.65	ppb
Styrene	**<0.67**	ppb	2.31	0.67	ppb
Isopropylbenzene	**<0.6**	ppb	2.31	0.6	ppb
Bromoform	**<1.1**	ppb	2.31	1.1	ppb
1,1,2,2-Tetrachloroethane	**<1.2**	ppb	2.31	1.2	ppb
1,2,3-Trichloropropane	**<1.1**	ppb	2.31	1.1	ppb
n-Propylbenzene	**<0.95**	ppb	2.31	0.95	ppb
Bromobenzene	**<1**	ppb	2.31	1	ppb
1,3,5-Trimethylbenzene	**<0.69**	ppb	2.31	0.69	ppb
2-Chlorotoluene	**<0.6**	ppb	2.31	0.6	ppb
4-Chlorotoluene	**<0.79**	ppb	2.31	0.79	ppb
4-Isopropyltoluene	**<0.83**	ppb	2.31	0.83	ppb
1,2,4-Trimethylbenzene	**4.4**	ppb	2.31	0.95	ppb
sec-Butylbenzene	**<0.83**	ppb	2.31	0.83	ppb
tert-Butylbenzene	**<1.2**	ppb	2.31	1.2	ppb
1,3-Dichlorobenzene	**<0.74**	ppb	2.31	0.74	ppb
1,4-Dichlorobenzene	**<0.74**	ppb	2.31	0.74	ppb
n-Butylbenzene	**<0.9**	ppb	2.31	0.9	ppb
1,2-Dichlorobenzene	**<0.62**	ppb	2.31	0.62	ppb
1,2-Dibromo-3-chloropropane	**<1.7**	ppb	2.31	1.7	ppb
1,2,4-Trichlorobenzene	**<0.95**	ppb	2.31	0.95	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #14 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Hexachlorobutadiene	**<0.81**	ppb	2.31	0.81	ppb
Naphthalene	**<1.3**	ppb	2.31	1.3	ppb
1,2,3-Trichlorobenzene	**<0.69**	ppb	2.31	0.69	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6285
Collected: 04/10/98
Location: SS #14 (32'-34')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	**<1.4**	ppb	2.16	1.4	ppb
Chloromethane	**<0.73**	ppb	2.16	0.73	ppb
Vinyl Chloride	**<1.3**	ppb	2.16	1.3	ppb
Bromomethane	**<0.84**	ppb	2.16	0.84	ppb
Chloroethane	**<0.41**	ppb	2.16	0.41	ppb
Trichlorofluoromethane	**<0.24**	ppb	2.16	0.24	ppb
1,1-Dichloroethene	**<0.45**	ppb	2.16	0.45	ppb
Methylene Chloride	**<1.3**	ppb	2.16	1.3	ppb
t-1,2-Dichloroethene	**<0.89**	ppb	2.16	0.89	ppb
1,1-Dichloroethane	**<0.35**	ppb	2.16	0.35	ppb
2,2-Dichloropropane	**<0.5**	ppb	2.16	0.5	ppb
c-1,2-Dichloroethene	**<1.1**	ppb	2.16	1.1	ppb
Chloroform	**<0.37**	ppb	2.16	0.37	ppb
Bromochloromethane	**<0.54**	ppb	2.16	0.54	ppb
1,1,1-Trichloroethane	**<0.6**	ppb	2.16	0.6	ppb
1,1-Dichloropropene	**<0.84**	ppb	2.16	0.84	ppb
Carbon Tetrachloride	**<0.58**	ppb	2.16	0.58	ppb
1,2-Dichloroethane	**<0.65**	ppb	2.16	0.65	ppb
Benzene	**<0.6**	ppb	2.16	0.6	ppb
Trichloroethene	**<0.65**	ppb	2.16	0.65	ppb
1,2-Dichloropropane	**<0.39**	ppb	2.16	0.39	ppb
Bromodichloromethane	**<0.41**	ppb	2.16	0.41	ppb
Dibromomethane	**<1.1**	ppb	2.16	1.1	ppb
c-1,3-Dichloropropene	**<0.54**	ppb	2.16	0.54	ppb
Toluene	**<0.71**	ppb	2.16	0.71	ppb
t-1,3-Dichloropropene	**<0.89**	ppb	2.16	0.89	ppb
1,1,2-Trichloroethane	**<1.1**	ppb	2.16	1.1	ppb
1,3-Dichloropropane	**<1**	ppb	2.16	1	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #14 (32'-34')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Tetrachloroethene	**47.3**	ppb	2.16	0.6	ppb
Dibromochloromethane	**<0.63**	ppb	2.16	0.63	ppb
1,2-Dibromoethane	**<1.1**	ppb	2.16	1.1	ppb
Chlorobenzene	**<0.63**	ppb	2.16	0.63	ppb
1,1,1,2-Tetrachloroethane	**<0.69**	ppb	2.16	0.69	ppb
Ethylbenzene	**<0.73**	ppb	2.16	0.73	ppb
m,p-xylene	**2.9**	ppb	2.16	1.4	ppb
o-xylene	**1.8**	ppb	2.16	0.6	ppb
Styrene	**<0.63**	ppb	2.16	0.63	ppb
Isopropylbenzene	**<0.56**	ppb	2.16	0.56	ppb
Bromoform	**<1**	ppb	2.16	1	ppb
1,1,2,2-Tetrachloroethane	**<1.1**	ppb	2.16	1.1	ppb
1,2,3-Trichloropropane	**<0.99**	ppb	2.16	0.99	ppb
n-Propylbenzene	**<0.89**	ppb	2.16	0.89	ppb
Bromobenzene	**<0.95**	ppb	2.16	0.95	ppb
1,3,5-Trimethylbenzene	**4.1**	ppb	2.16	0.65	ppb
2-Chlorotoluene	**<0.56**	ppb	2.16	0.56	ppb
4-Chlorotoluene	**<0.73**	ppb	2.16	0.73	ppb
4-Isopropyltoluene	**<0.78**	ppb	2.16	0.78	ppb
1,2,4-Trimethylbenzene	**8.5**	ppb	2.16	0.89	ppb
sec-Butylbenzene	**<0.78**	ppb	2.16	0.78	ppb
tert-Butylbenzene	**<1.1**	ppb	2.16	1.1	ppb
1,3-Dichlorobenzene	**<0.69**	ppb	2.16	0.69	ppb
1,4-Dichlorobenzene	**<0.69**	ppb	2.16	0.69	ppb
n-Butylbenzene	**<0.84**	ppb	2.16	0.84	ppb
1,2-Dichlorobenzene	**<0.58**	ppb	2.16	0.58	ppb
1,2-Dibromo-3-chloropropane	**<1.6**	ppb	2.16	1.6	ppb
1,2,4-Trichlorobenzene	**<0.89**	ppb	2.16	0.89	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Method

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #14 (32'-34')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Hexachlorobutadiene	**<0.76**	ppb	2.16	0.76	ppb
Naphthalene	**2.8**	ppb	2.16	1.2	ppb
1,2,3-Trichlorobenzene	**<0.65**	ppb	2.16	0.65	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6285
Collected: 04/10/98
Location: SS #9 (16'-18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	**<1.3**	ppb	2.08	1.3	ppb
Chloromethane	**<0.71**	ppb	2.08	0.71	ppb
Vinyl Chloride	**<1.2**	ppb	2.08	1.2	ppb
Bromomethane	**<0.81**	ppb	2.08	0.81	ppb
Chloroethane	**<0.4**	ppb	2.08	0.4	ppb
Trichlorofluoromethane	**<0.23**	ppb	2.08	0.23	ppb
1,1-Dichloroethene	**<0.44**	ppb	2.08	0.44	ppb
Methylene Chloride	**<1.2**	ppb	2.08	1.2	ppb
t-1,2-Dichloroethene	**<0.85**	ppb	2.08	0.85	ppb
1,1-Dichloroethane	**<0.33**	ppb	2.08	0.33	ppb
2,2-Dichloropropane	**<0.48**	ppb	2.08	0.48	ppb
c-1,2-Dichloroethene	**<1**	ppb	2.08	1	ppb
Chloroform	**<0.35**	ppb	2.08	0.35	ppb
Bromochloromethane	**<0.52**	ppb	2.08	0.52	ppb
1,1,1-Trichloroethane	**<0.58**	ppb	2.08	0.58	ppb
1,1-Dichloropropene	**<0.81**	ppb	2.08	0.81	ppb
Carbon Tetrachloride	**<0.56**	ppb	2.08	0.56	ppb
1,2-Dichloroethane	**<0.62**	ppb	2.08	0.62	ppb
Benzene	**<0.58**	ppb	2.08	0.58	ppb
Trichloroethene	**<0.62**	ppb	2.08	0.62	ppb
1,2-Dichloropropane	**<0.37**	ppb	2.08	0.37	ppb
Bromodichloromethane	**<0.4**	ppb	2.08	0.4	ppb
Dibromomethane	**<1.1**	ppb	2.08	1.1	ppb
c-1,3-Dichloropropene	**<0.52**	ppb	2.08	0.52	ppb
Toluene	**<0.69**	ppb	2.08	0.69	ppb
t-1,3-Dichloropropene	**<0.85**	ppb	2.08	0.85	ppb
1,1,2-Trichloroethane	**<1**	ppb	2.08	1	ppb
1,3-Dichloropropane	**<0.98**	ppb	2.08	0.98	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis*; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #9 (16'-18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Tetrachloroethene	**<0.58**	ppb	2.08	0.58	ppb
Dibromochloromethane	**<0.6**	ppb	2.08	0.6	ppb
1,2-Dibromoethane	**<1**	ppb	2.08	1	ppb
Chlorobenzene	**<0.6**	ppb	2.08	0.6	ppb
1,1,1,2-Tetrachloroethane	**<0.67**	ppb	2.08	0.67	ppb
Ethylbenzene	**<0.71**	ppb	2.08	0.71	ppb
m,p-xylene	**<1.3**	ppb	2.08	1.3	ppb
o-xylene	**<0.58**	ppb	2.08	0.58	ppb
Styrene	**<0.6**	ppb	2.08	0.6	ppb
Isopropylbenzene	**<0.54**	ppb	2.08	0.54	ppb
Bromoform	**<1**	ppb	2.08	1	ppb
1,1,2,2-Tetrachloroethane	**<1**	ppb	2.08	1	ppb
1,2,3-Trichloropropane	**<0.96**	ppb	2.08	0.96	ppb
n-Propylbenzene	**<0.85**	ppb	2.08	0.85	ppb
Bromobenzene	**<0.92**	ppb	2.08	0.92	ppb
1,3,5-Trimethylbenzene	**<0.62**	ppb	2.08	0.62	ppb
2-Chlorotoluene	**<0.54**	ppb	2.08	0.54	ppb
4-Chlorotoluene	**<0.71**	ppb	2.08	0.71	ppb
4-Isopropyltoluene	**<0.75**	ppb	2.08	0.75	ppb
1,2,4-Trimethylbenzene	**<0.85**	ppb	2.08	0.85	ppb
sec-Butylbenzene	**<0.75**	ppb	2.08	0.75	ppb
tert-Butylbenzene	**<1.1**	ppb	2.08	1.1	ppb
1,3-Dichlorobenzene	**<0.67**	ppb	2.08	0.67	ppb
1,4-Dichlorobenzene	**<0.67**	ppb	2.08	0.67	ppb
n-Butylbenzene	**<0.81**	ppb	2.08	0.81	ppb
1,2-Dichlorobenzene	**<0.56**	ppb	2.08	0.56	ppb
1,2-Dibromo-3-chloropropane	**<1.5**	ppb	2.08	1.5	ppb
1,2,4-Trichlorobenzene	**<0.85**	ppb	2.08	0.85	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Method

The Tyree Organization

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6285
Collected: 04/10/98
Location: SS #9 (16'-18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/20/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Hexachlorobutadiene	**<0.73**	ppb	2.08	0.73	ppb
Naphthalene	**<1.1**	ppb	2.08	1.1	ppb
1,2,3-Trichlorobenzene	**<0.62**	ppb	2.08	0.62	ppb

Reviewed by: Peggy Lorigo

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Total Solids

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6285
Collected: 04/10/98
Location: SS #11 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**83.9**	%	1		%

Sample 2
Custody: G6285
Collected: 04/10/98
Location: SS #11 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**95.8**	%	1		%

Sample 3
Custody: G6285
Collected: 04/10/98
Location: SS #14 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**86.4**	%	1		%

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Total Solids

04/22/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6285
Received: 04/10/98 2:20 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6285
Collected: 04/10/98
Location: SS #14 (32'-34')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**92.4**	%	1		%

Sample 5
Custody: G6285
Collected: 04/10/98
Location: SS #9 (16'-18')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**96.2**	%	1		%

Reviewed by: Peggy Chao

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Manager: Jeff Bohlen

Sample 2
Custody: G6282
Collected: 04/03/98 9:25 AM
Location: MW-2
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.35**	ppb	1	0.35	ppb
Vinyl Chloride	**<0.19**	ppb	1	0.19	ppb
Bromomethane	**<0.09**	ppb	1	0.09	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.27**	ppb	1	0.27	ppb
Acrolein	**<3.12**	ppb	1	3.12	ppb
1,1-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Dichloromethane	**<0.30**	ppb	1	0.30	ppb
t-1,2-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Acrylonitrile	**<3.08**	ppb	1	3.08	ppb
1,1-Dichloroethane	**<0.14**	ppb	1	0.14	ppb
Chloroform	**<0.19**	ppb	1	0.19	ppb
1,1,1-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Carbon Tetrachloride	**<0.15**	ppb	1	0.15	ppb
1,2-Dichloroethane	**<0.19**	ppb	1	0.19	ppb
Benzene	**<0.10**	ppb	1	0.10	ppb
Trichloroethene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichloropropane	**<0.19**	ppb	1	0.19	ppb
Bromodichloromethane	**<0.18**	ppb	1	0.18	ppb
2-Chloroethylvinylether	**<1.24**	ppb	1	1.24	ppb
1,3-Dichloropropene	**<0.14**	ppb	1	0.14	ppb
Toluene	**<0.22**	ppb	1	0.22	ppb
t-1,3-Dichloropropene	**<0.15**	ppb	1	0.15	ppb
1,1,2-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Tetrachloroethene	**<0.21**	ppb	1	0.21	ppb
Dibromochloromethane	**<0.21**	ppb	1	0.21	ppb
Chlorobenzene	**<0.11**	ppb	1	0.11	ppb
Ethylbenzene	**<0.19**	ppb	1	0.19	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:

Manager: Jeff Bohlen
Area: Lake Success

Sample 2 (continued)
Custody: G6282
Collected: 04/03/98 9:25 AM
Location: MW-2
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.44**	ppb	1	0.44	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.12**	ppb	1	0.12	ppb
1,3-Dichlorobenzene	**<0.15**	ppb	1	0.15	ppb
1,4-Dichlorobenzene	**<0.13**	ppb	1	0.13	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Manager: Jeff Bohlen

Sample 3
Custody: G6282
Collected: 04/03/98 3:20 PM
Location: MW-3
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.35**	ppb	1	0.35	ppb
Vinyl Chloride	**<0.19**	ppb	1	0.19	ppb
Bromomethane	**<0.09**	ppb	1	0.09	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.27**	ppb	1	0.27	ppb
Acrolein	**<3.12**	ppb	1	3.12	ppb
1,1-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Dichloromethane	**<0.30**	ppb	1	0.30	ppb
t-1,2-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Acrylonitrile	**<3.08**	ppb	1	3.08	ppb
1,1-Dichloroethane	**<0.14**	ppb	1	0.14	ppb
Chloroform	**<0.19**	ppb	1	0.19	ppb
1,1,1-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Carbon Tetrachloride	**<0.15**	ppb	1	0.15	ppb
1,2-Dichloroethane	**<0.19**	ppb	1	0.19	ppb
Benzene	**<0.10**	ppb	1	0.10	ppb
Trichloroethene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichloropropane	**<0.19**	ppb	1	0.19	ppb
Bromodichloromethane	**<0.18**	ppb	1	0.18	ppb
2-Chloroethylvinylether	**<1.24**	ppb	1	1.24	ppb
1,3-Dichloropropene	**<0.14**	ppb	1	0.14	ppb
Toluene	**<0.22**	ppb	1	0.22	ppb
t-1,3-Dichloropropene	**<0.15**	ppb	1	0.15	ppb
1,1,2-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Tetrachloroethene	**17.6**	ppb	1	0.21	ppb
Dibromochloromethane	**<0.21**	ppb	1	0.21	ppb
Chlorobenzene	**<0.11**	ppb	1	0.11	ppb
Ethylbenzene	**<0.19**	ppb	1	0.19	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Manager: Jeff Bohlen

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Sample 3 (continued)
Custody: G6282
Collected: 04/03/98 3:20 PM
Location: MW-3
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.44**	ppb	1	0.44	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.12**	ppb	1	0.12	ppb
1,3-Dichlorobenzene	**<0.15**	ppb	1	0.15	ppb
1,4-Dichlorobenzene	**<0.13**	ppb	1	0.13	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Manager: Jeff Bohlen

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Sample 4
Custody: G6282
Collected: 04/03/98 11:45 AM
Location: MW-5
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.35**	ppb	1	0.35	ppb
Vinyl Chloride	**<0.19**	ppb	1	0.19	ppb
Bromomethane	**<0.09**	ppb	1	0.09	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.27**	ppb	1	0.27	ppb
Acrolein	**<3.12**	ppb	1	3.12	ppb
1,1-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Dichloromethane	**<0.30**	ppb	1	0.30	ppb
t-1,2-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Acrylonitrile	**<3.08**	ppb	1	3.08	ppb
1,1-Dichloroethane	**<0.14**	ppb	1	0.14	ppb
Chloroform	**<0.19**	ppb	1	0.19	ppb
1,1,1-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Carbon Tetrachloride	**<0.15**	ppb	1	0.15	ppb
1,2-Dichloroethane	**<0.19**	ppb	1	0.19	ppb
Benzene	**<0.10**	ppb	1	0.10	ppb
Trichloroethene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichloropropane	**<0.19**	ppb	1	0.19	ppb
Bromodichloromethane	**<0.18**	ppb	1	0.18	ppb
2-Chloroethylvinylether	**<1.24**	ppb	1	1.24	ppb
1,3-Dichloropropene	**<0.14**	ppb	1	0.14	ppb
Toluene	**<0.22**	ppb	1	0.22	ppb
t-1,3-Dichloropropene	**<0.15**	ppb	1	0.15	ppb
1,1,2-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Tetrachloroethene	**3.9**	ppb	1	0.21	ppb
Dibromochloromethane	**<0.21**	ppb	1	0.21	ppb
Chlorobenzene	**<0.11**	ppb	1	0.11	ppb
Ethylbenzene	**<0.19**	ppb	1	0.19	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Manager: Jeff Bohlen

Sample 4 (continued)
Custody: G6282 Type: Grab
Collected: 04/03/98 11:45 AM Matrix: Liquid
Location: MW-5
Remarks:

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.44**	ppb	1	0.44	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.12**	ppb	1	0.12	ppb
1,3-Dichlorobenzene	**<0.15**	ppb	1	0.15	ppb
1,4-Dichlorobenzene	**<0.13**	ppb	1	0.13	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Manager: Jeff Bohlen

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Sample 5
Custody: G6282
Collected: 04/03/98 4:00 PM
Location: Field Blank
Remarks:
Type: Blank
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.35**	ppb	1	0.35	ppb
Vinyl Chloride	**<0.19**	ppb	1	0.19	ppb
Bromomethane	**<0.09**	ppb	1	0.09	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.27**	ppb	1	0.27	ppb
Acrolein	**<3.12**	ppb	1	3.12	ppb
1,1-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Dichloromethane	**<0.30**	ppb	1	0.30	ppb
t-1,2-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Acrylonitrile	**<3.08**	ppb	1	3.08	ppb
1,1-Dichloroethane	**<0.14**	ppb	1	0.14	ppb
Chloroform	**<0.19**	ppb	1	0.19	ppb
1,1,1-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Carbon Tetrachloride	**<0.15**	ppb	1	0.15	ppb
1,2-Dichloroethane	**<0.19**	ppb	1	0.19	ppb
Benzene	**<0.10**	ppb	1	0.10	ppb
Trichloroethene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichloropropane	**<0.19**	ppb	1	0.19	ppb
Bromodichloromethane	**<0.18**	ppb	1	0.18	ppb
2-Chloroethylvinylether	**<1.24**	ppb	1	1.24	ppb
1,3-Dichloropropene	**<0.14**	ppb	1	0.14	ppb
Toluene	**<0.22**	ppb	1	0.22	ppb
t-1,3-Dichloropropene	**<0.15**	ppb	1	0.15	ppb
1,1,2-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Tetrachloroethene	**<0.21**	ppb	1	0.21	ppb
Dibromochloromethane	**<0.21**	ppb	1	0.21	ppb
Chlorobenzene	**<0.11**	ppb	1	0.11	ppb
Ethylbenzene	**<0.19**	ppb	1	0.19	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Manager: Jeff Bohlen

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Sample 5 (continued)
Custody: G6282
Collected: 04/03/98 4:00 PM
Location: Field Blank
Remarks:

Type: Blank
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.44**	ppb	1	0.44	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.12**	ppb	1	0.12	ppb
1,3-Dichlorobenzene	**<0.15**	ppb	1	0.15	ppb
1,4-Dichlorobenzene	**<0.13**	ppb	1	0.13	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Manager: Jeff Bohlen

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Sample 6
Custody: G6282
Collected: 04/03/98 4:00 PM
Location: Trip Blank
Remarks:
Type: Blank
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.35**	ppb	1	0.35	ppb
Vinyl Chloride	**<0.19**	ppb	1	0.19	ppb
Bromomethane	**<0.09**	ppb	1	0.09	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.27**	ppb	1	0.27	ppb
Acrolein	**<3.12**	ppb	1	3.12	ppb
1,1-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Dichloromethane	**<0.30**	ppb	1	0.30	ppb
t-1,2-Dichloroethene	**<0.23**	ppb	1	0.23	ppb
Acrylonitrile	**<3.08**	ppb	1	3.08	ppb
1,1-Dichloroethane	**<0.14**	ppb	1	0.14	ppb
Chloroform	**<0.19**	ppb	1	0.19	ppb
1,1,1-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Carbon Tetrachloride	**<0.15**	ppb	1	0.15	ppb
1,2-Dichloroethane	**<0.19**	ppb	1	0.19	ppb
Benzene	**<0.10**	ppb	1	0.10	ppb
Trichloroethene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichloropropane	**<0.19**	ppb	1	0.19	ppb
Bromodichloromethane	**<0.18**	ppb	1	0.18	ppb
2-Chloroethylvinylether	**<1.24**	ppb	1	1.24	ppb
1,3-Dichloropropene	**<0.14**	ppb	1	0.14	ppb
Toluene	**<0.22**	ppb	1	0.22	ppb
t-1,3-Dichloropropene	**<0.15**	ppb	1	0.15	ppb
1,1,2-Trichloroethane	**<0.16**	ppb	1	0.16	ppb
Tetrachloroethene	**<0.21**	ppb	1	0.21	ppb
Dibromochloromethane	**<0.21**	ppb	1	0.21	ppb
Chlorobenzene	**<0.11**	ppb	1	0.11	ppb
Ethylbenzene	**<0.19**	ppb	1	0.19	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/09/98

Project

Custody Document G6282
Received: 04/03/98 4:35 PM
Sampled by: Jeff Bohlen
Job Number:
Area: Lake Success

Manager: Jeff Bohlen

Sample 6 (continued)
Custody: G6282
Collected: 04/03/98 4:00 PM
Location: Trip Blank
Remarks:
Type: Blank
Matrix: Liquid

Analysis Information
Analyzed: 04/09/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.44**	ppb	1	0.44	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.12**	ppb	1	0.12	ppb
1,3-Dichlorobenzene	**<0.15**	ppb	1	0.15	ppb
1,4-Dichlorobenzene	**<0.13**	ppb	1	0.13	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

Reviewed by: Peggy Longo

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6288 Type: Grab
Collected: 04/07/98 11:45 AM Matrix: Liquid
Location: MW-4
Remarks:

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	<0.50	ppb	1	0.50	ppb
Vinyl Chloride	<0.61	ppb	1	0.61	ppb
Bromomethane	<0.79	ppb	1	0.79	ppb
Chloroethane	<0.93	ppb	1	0.93	ppb
Trichlorofluoromethane	<0.36	ppb	1	0.36	ppb
Acrolein	<4.15	ppb	1	4.15	ppb
1,1-Dichloroethene	<0.61	ppb	1	0.61	ppb
Dichloromethane	<1.36	ppb	1	1.36	ppb
t-1,2-Dichloroethene	<0.53	ppb	1	0.53	ppb
Acrylonitrile	<3.08	ppb	1	3.08	ppb
1,1-Dichloroethane	<0.38	ppb	1	0.38	ppb
Chloroform	<0.45	ppb	1	0.45	ppb
1,1,1-Trichloroethane	<0.40	ppb	1	0.40	ppb
Carbon Tetrachloride	<0.38	ppb	1	0.38	ppb
1,2-Dichloroethane	<0.38	ppb	1	0.38	ppb
Benzene	<0.42	ppb	1	0.42	ppb
Trichloroethene	<0.45	ppb	1	0.45	ppb
1,2-Dichloropropane	<0.40	ppb	1	0.40	ppb
Bromodichloromethane	<0.45	ppb	1	0.45	ppb
2-Chloroethylvinylether	<1.44	ppb	1	1.44	ppb
1,3-Dichloropropene	<1.16	ppb	1	1.16	ppb
Toluene	<0.59	ppb	1	0.59	ppb
t-1,3-Dichloropropene	<0.61	ppb	1	0.61	ppb
1,1,2-Trichloroethane	<0.71	ppb	1	0.71	ppb
Tetrachloroethene	68.6	ppb	1	0.45	ppb
Dibromochloromethane	<0.55	ppb	1	0.55	ppb
Chlorobenzene	<0.41	ppb	1	0.41	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 624 (GC/MS)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6288 Type: Grab
Collected: 04/07/98 11:45 AM Matrix: Liquid
Location: MW-4
Remarks:

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Ethylbenzene	**<0.69**	ppb	1	0.69	ppb
Xylene	**<1.45**	ppb	1	1.45	ppb
Bromoform	**<0.68**	ppb	1	0.68	ppb
1,1,2,2-Tetrachloroethane	**<0.69**	ppb	1	0.69	ppb
1,3-Dichlorobenzene	**<0.54**	ppb	1	0.54	ppb
1,4-Dichlorobenzene	**<0.60**	ppb	1	0.60	ppb
1,2-Dichlorobenzene	**<0.54**	ppb	1	0.54	ppb

Reviewed by: Patricia Werner PD

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Ketones & Ethers (624/8260)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6288
Collected: 04/07/98 11:45 AM
Location: MW-4
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	<0.88	ppb	1	0.88	ppb

Sample 2
Custody: G6288
Collected: 04/07/98
Location: SS #5 (18'-20')
Remarks:
Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	<0.76	ppb	1.13	0.76	ppb

Sample 3
Custody: G6288
Collected: 04/07/98
Location: SS #5 (28'-30')
Remarks:
Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	<0.76	ppb	1.13	0.76	ppb

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ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL
Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-8344

208 Route 109 • Farmingdale • New York 11735

NY NH MA VT
NJ RI DE ME
CT PA MD VA ___

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6282

Project Name: 215 Lakeville Rd | Project Manager: Jeff Bohlen | Sampler (Signature): [signature] (Print): Jeff Bohlen PE

Project Address: Lake Success NY

Bill to: Nelson Engineering J/N: 15085 | ☐ Rush by / /

SAMPLE INFO | **Type:** SS = Split Spoon; G = Grab; C = Composite; B = Blank | **Matrix:** L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | * Air - include : **Vol. (Liters) Flow (CFM)**

ID	Date	Time	Type	Matrix	Sample Location
1	4/3/08	10:45am	G	WATER	MW-1
2		9:05am	G		MW-2
3		3:20pm	G		MW-3
4		11:45am	G		MW-5
5		4:00pm	B		Field Blank
6	↓	4:30pm	B	↓	Trip Blank
7					
8					
9					
10					
11					
12					
13					

601/8010	602/8020	BTX/BTEX	MTBE	624/8240/8260	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1 - TRPH
		X											

Relinquished by (Signature):	Date 4/3/08 Time 4:30pm	Printed Name & Agent: Jeff Bohlen GEL	Received by (Signature):	Date Time	Printed Name & Agent:
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions:		Disposal Facility:
Received for Lab by (Signature):	Date 4/3/08 Time 4:35pm	Printed Name:	Number & Type of Containers: 13- VOAs 6°C		Preservatives: HCl

4/3/08

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

Case Narrative

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6287

Print Date: 04/21/98

EPA 8260:

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: Peggy Longo PW

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6287
Collected: 04/09/98
Location: SS #1 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.77	ppb	1.20	0.77	ppb
Chloromethane	<0.41	ppb	1.20	0.41	ppb
Vinyl Chloride	<0.72	ppb	1.20	0.72	ppb
Bromomethane	<0.47	ppb	1.20	0.47	ppb
Chloroethane	<0.23	ppb	1.20	0.23	ppb
Trichlorofluoromethane	<0.13	ppb	1.20	0.13	ppb
1,1-Dichloroethene	<0.25	ppb	1.20	0.25	ppb
Methylene Chloride	<0.71	ppb	1.20	0.71	ppb
t-1,2-Dichloroethene	<0.49	ppb	1.20	0.49	ppb
1,1-Dichloroethane	<0.19	ppb	1.20	0.19	ppb
2,2-Dichloropropane	<0.28	ppb	1.20	0.28	ppb
c-1,2-Dichloroethene	<0.60	ppb	1.20	0.60	ppb
Chloroform	<0.2	ppb	1.20	0.2	ppb
Bromochloromethane	<0.30	ppb	1.20	0.30	ppb
1,1,1-Trichloroethane	<0.34	ppb	1.20	0.34	ppb
1,1-Dichloropropene	<0.47	ppb	1.20	0.47	ppb
Carbon Tetrachloride	<0.32	ppb	1.20	0.32	ppb
1,2-Dichloroethane	<0.36	ppb	1.20	0.36	ppb
Benzene	<0.34	ppb	1.20	0.34	ppb
Trichloroethene	<0.36	ppb	1.20	0.36	ppb
1,2-Dichloropropane	<0.22	ppb	1.20	0.22	ppb
Bromodichloromethane	<0.23	ppb	1.20	0.23	ppb
Dibromomethane	<0.64	ppb	1.20	0.64	ppb
c-1,3-Dichloropropene	<0.30	ppb	1.20	0.30	ppb
Toluene	<0.4	ppb	1.20	0.4	ppb
t-1,3-Dichloropropene	<0.49	ppb	1.20	0.49	ppb
1,1,2-Trichloroethane	<0.59	ppb	1.20	0.59	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #1 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.56	ppb	1.20	0.56	ppb
Tetrachloroethene	58.3	ppb	1.20	0.34	ppb
Dibromochloromethane	<0.35	ppb	1.20	0.35	ppb
1,2-Dibromoethane	<0.60	ppb	1.20	0.60	ppb
Chlorobenzene	<0.35	ppb	1.20	0.35	ppb
1,1,1,2-Tetrachloroethane	<0.38	ppb	1.20	0.38	ppb
Ethylbenzene	<0.41	ppb	1.20	0.41	ppb
m,p-xylene	<0.76	ppb	1.20	0.76	ppb
o-xylene	<0.34	ppb	1.20	0.34	ppb
Styrene	<0.35	ppb	1.20	0.35	ppb
Isopropylbenzene	<0.31	ppb	1.20	0.31	ppb
Bromoform	<0.58	ppb	1.20	0.58	ppb
1,1,2,2-Tetrachloroethane	<0.60	ppb	1.20	0.60	ppb
1,2,3-Trichloropropane	<0.55	ppb	1.20	0.55	ppb
n-Propylbenzene	<0.49	ppb	1.20	0.49	ppb
Bromobenzene	<0.53	ppb	1.20	0.53	ppb
1,3,5-Trimethylbenzene	<0.36	ppb	1.20	0.36	ppb
2-Chlorotoluene	<0.31	ppb	1.20	0.31	ppb
4-Chlorotoluene	<0.41	ppb	1.20	0.41	ppb
4-Isopropyltoluene	<0.43	ppb	1.20	0.43	ppb
1,2,4-Trimethylbenzene	<0.49	ppb	1.20	0.49	ppb
sec-Butylbenzene	<0.43	ppb	1.20	0.43	ppb
tert-Butylbenzene	<0.62	ppb	1.20	0.62	ppb
1,3-Dichlorobenzene	<0.38	ppb	1.20	0.38	ppb
1,4-Dichlorobenzene	<0.38	ppb	1.20	0.38	ppb
n-Butylbenzene	<0.47	ppb	1.20	0.47	ppb
1,2-Dichlorobenzene	<0.32	ppb	1.20	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #1 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.86**	ppb	1.20	0.86	ppb
1,2,4-Trichlorobenzene	**<0.49**	ppb	1.20	0.49	ppb
Hexachlorobutadiene	**<0.42**	ppb	1.20	0.42	ppb
Naphthalene	**<0.66**	ppb	1.20	0.66	ppb
1,2,3-Trichlorobenzene	**<0.36**	ppb	1.20	0.36	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6287
Collected: 04/09/98
Location: SS #13 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<1.4	ppb	2.15	1.4	ppb
Chloromethane	<0.73	ppb	2.15	0.73	ppb
Vinyl Chloride	<1.3	ppb	2.15	1.3	ppb
Bromomethane	<0.84	ppb	2.15	0.84	ppb
Chloroethane	<0.41	ppb	2.15	0.41	ppb
Trichlorofluoromethane	<0.24	ppb	2.15	0.24	ppb
1,1-Dichloroethene	<0.45	ppb	2.15	0.45	ppb
Methylene Chloride	<1.3	ppb	2.15	1.3	ppb
t-1,2-Dichloroethene	<0.88	ppb	2.15	0.88	ppb
1,1-Dichloroethane	<0.34	ppb	2.15	0.34	ppb
2,2-Dichloropropane	<0.49	ppb	2.15	0.49	ppb
c-1,2-Dichloroethene	<1.1	ppb	2.15	1.1	ppb
Chloroform	<0.37	ppb	2.15	0.37	ppb
Bromochloromethane	<0.54	ppb	2.15	0.54	ppb
1,1,1-Trichloroethane	<0.6	ppb	2.15	0.6	ppb
1,1-Dichloropropene	<0.84	ppb	2.15	0.84	ppb
Carbon Tetrachloride	<0.58	ppb	2.15	0.58	ppb
1,2-Dichloroethane	<0.65	ppb	2.15	0.65	ppb
Benzene	<0.6	ppb	2.15	0.6	ppb
Trichloroethene	<0.65	ppb	2.15	0.65	ppb
1,2-Dichloropropane	<0.39	ppb	2.15	0.39	ppb
Bromodichloromethane	<0.41	ppb	2.15	0.41	ppb
Dibromomethane	<1.1	ppb	2.15	1.1	ppb
c-1,3-Dichloropropene	<0.54	ppb	2.15	0.54	ppb
Toluene	<0.71	ppb	2.15	0.71	ppb
t-1,3-Dichloropropene	<0.88	ppb	2.15	0.88	ppb
1,1,2-Trichloroethane	<1.1	ppb	2.15	1.1	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #13 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<1	ppb	2.15	1	ppb
Tetrachloroethene	<0.6	ppb	2.15	0.6	ppb
Dibromochloromethane	<0.62	ppb	2.15	0.62	ppb
1,2-Dibromoethane	<1.1	ppb	2.15	1.1	ppb
Chlorobenzene	<0.62	ppb	2.15	0.62	ppb
1,1,1,2-Tetrachloroethane	<0.69	ppb	2.15	0.69	ppb
Ethylbenzene	<0.73	ppb	2.15	0.73	ppb
m,p-xylene	<1.4	ppb	2.15	1.4	ppb
o-xylene	<0.6	ppb	2.15	0.6	ppb
Styrene	<0.62	ppb	2.15	0.62	ppb
Isopropylbenzene	<0.56	ppb	2.15	0.56	ppb
Bromoform	<1	ppb	2.15	1	ppb
1,1,2,2-Tetrachloroethane	<1.1	ppb	2.15	1.1	ppb
1,2,3-Trichloropropane	<0.99	ppb	2.15	0.99	ppb
n-Propylbenzene	<0.88	ppb	2.15	0.88	ppb
Bromobenzene	<0.95	ppb	2.15	0.95	ppb
1,3,5-Trimethylbenzene	8.7	ppb	2.15	0.65	ppb
2-Chlorotoluene	<0.56	ppb	2.15	0.56	ppb
4-Chlorotoluene	<0.73	ppb	2.15	0.73	ppb
4-Isopropyltoluene	9.7	ppb	2.15	0.77	ppb
1,2,4-Trimethylbenzene	2.0	ppb	2.15	0.88	ppb
sec-Butylbenzene	<0.77	ppb	2.15	0.77	ppb
tert-Butylbenzene	<1.1	ppb	2.15	1.1	ppb
1,3-Dichlorobenzene	21.6	ppb	2.15	0.69	ppb
1,4-Dichlorobenzene	<0.69	ppb	2.15	0.69	ppb
n-Butylbenzene	<0.84	ppb	2.15	0.84	ppb
1,2-Dichlorobenzene	11.0	ppb	2.15	0.58	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member

The Tyree Organization

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #13 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<1.5**	ppb	2.15	1.5	ppb
1,2,4-Trichlorobenzene	**52.9**	ppb	2.15	0.88	ppb
Hexachlorobutadiene	**<0.75**	ppb	2.15	0.75	ppb
Naphthalene	**<1.2**	ppb	2.15	1.2	ppb
1,2,3-Trichlorobenzene	**<0.65**	ppb	2.15	0.65	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6287
Collected: 04/09/98
Location: SS #13 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.69	ppb	1.08	0.69	ppb
Chloromethane	<0.37	ppb	1.08	0.37	ppb
Vinyl Chloride	<0.65	ppb	1.08	0.65	ppb
Bromomethane	<0.42	ppb	1.08	0.42	ppb
Chloroethane	<0.21	ppb	1.08	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.08	0.12	ppb
1,1-Dichloroethene	<0.23	ppb	1.08	0.23	ppb
Methylene Chloride	<0.64	ppb	1.08	0.64	ppb
t-1,2-Dichloroethene	<0.44	ppb	1.08	0.44	ppb
1,1-Dichloroethane	<0.17	ppb	1.08	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.08	0.25	ppb
c-1,2-Dichloroethene	<0.54	ppb	1.08	0.54	ppb
Chloroform	<0.18	ppb	1.08	0.18	ppb
Bromochloromethane	<0.27	ppb	1.08	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.08	0.3	ppb
1,1-Dichloropropene	<0.42	ppb	1.08	0.42	ppb
Carbon Tetrachloride	<0.29	ppb	1.08	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.08	0.32	ppb
Benzene	<0.3	ppb	1.08	0.3	ppb
Trichloroethene	<0.32	ppb	1.08	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.08	0.19	ppb
Bromodichloromethane	<0.21	ppb	1.08	0.21	ppb
Dibromomethane	<0.57	ppb	1.08	0.57	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.08	0.27	ppb
Toluene	<0.36	ppb	1.08	0.36	ppb
t-1,3-Dichloropropene	<0.44	ppb	1.08	0.44	ppb
1,1,2-Trichloroethane	<0.53	ppb	1.08	0.53	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #13 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.51	ppb	1.08	0.51	ppb
Tetrachloroethene	<0.3	ppb	1.08	0.3	ppb
Dibromochloromethane	<0.31	ppb	1.08	0.31	ppb
1,2-Dibromoethane	<0.54	ppb	1.08	0.54	ppb
Chlorobenzene	<0.31	ppb	1.08	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.35	ppb	1.08	0.35	ppb
Ethylbenzene	<0.37	ppb	1.08	0.37	ppb
m,p-xylene	1.4	ppb	1.08	0.68	ppb
o-xylene	<0.3	ppb	1.08	0.3	ppb
Styrene	<0.31	ppb	1.08	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.08	0.28	ppb
Bromoform	<0.52	ppb	1.08	0.52	ppb
1,1,2,2-Tetrachloroethane	<0.54	ppb	1.08	0.54	ppb
1,2,3-Trichloropropane	<0.5	ppb	1.08	0.5	ppb
n-Propylbenzene	<0.44	ppb	1.08	0.44	ppb
Bromobenzene	<0.48	ppb	1.08	0.48	ppb
1,3,5-Trimethylbenzene	1.5	ppb	1.08	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.08	0.28	ppb
4-Chlorotoluene	<0.37	ppb	1.08	0.37	ppb
4-Isopropyltoluene	<0.39	ppb	1.08	0.39	ppb
1,2,4-Trimethylbenzene	1.3	ppb	1.08	0.44	ppb
sec-Butylbenzene	<0.39	ppb	1.08	0.39	ppb
tert-Butylbenzene	<0.56	ppb	1.08	0.56	ppb
1,3-Dichlorobenzene	<0.35	ppb	1.08	0.35	ppb
1,4-Dichlorobenzene	<0.35	ppb	1.08	0.35	ppb
n-Butylbenzene	<0.42	ppb	1.08	0.42	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.08	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Member

The Tyree Organization

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #13 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.78**	ppb	1.08	0.78	ppb
1,2,4-Trichlorobenzene	**0.87**	ppb	1.08	0.44	ppb
Hexachlorobutadiene	**<0.38**	ppb	1.08	0.38	ppb
Naphthalene	**<0.59**	ppb	1.08	0.59	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.08	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6287
Collected: 04/09/98
Location: SS #12 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.7	ppb	1.09	0.7	ppb
Chloromethane	<0.37	ppb	1.09	0.37	ppb
Vinyl Chloride	<0.65	ppb	1.09	0.65	ppb
Bromomethane	<0.43	ppb	1.09	0.43	ppb
Chloroethane	<0.21	ppb	1.09	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.09	0.12	ppb
1,1-Dichloroethene	<0.23	ppb	1.09	0.23	ppb
Methylene Chloride	<0.64	ppb	1.09	0.64	ppb
t-1,2-Dichloroethene	<0.45	ppb	1.09	0.45	ppb
1,1-Dichloroethane	<0.17	ppb	1.09	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.09	0.25	ppb
c-1,2-Dichloroethene	<0.55	ppb	1.09	0.55	ppb
Chloroform	<0.19	ppb	1.09	0.19	ppb
Bromochloromethane	<0.27	ppb	1.09	0.27	ppb
1,1,1-Trichloroethane	<0.31	ppb	1.09	0.31	ppb
1,1-Dichloropropene	<0.43	ppb	1.09	0.43	ppb
Carbon Tetrachloride	<0.29	ppb	1.09	0.29	ppb
1,2-Dichloroethane	<0.33	ppb	1.09	0.33	ppb
Benzene	<0.31	ppb	1.09	0.31	ppb
Trichloroethene	<0.33	ppb	1.09	0.33	ppb
1,2-Dichloropropane	<0.2	ppb	1.09	0.2	ppb
Bromodichloromethane	<0.21	ppb	1.09	0.21	ppb
Dibromomethane	<0.58	ppb	1.09	0.58	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.09	0.27	ppb
Toluene	0.94	ppb	1.09	0.36	ppb
t-1,3-Dichloropropene	<0.45	ppb	1.09	0.45	ppb
1,1,2-Trichloroethane	<0.53	ppb	1.09	0.53	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight* basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #12 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.51	ppb	1.09	0.51	ppb
Tetrachloroethene	10.4	ppb	1.09	0.31	ppb
Dibromochloromethane	<0.32	ppb	1.09	0.32	ppb
1,2-Dibromoethane	<0.55	ppb	1.09	0.55	ppb
Chlorobenzene	<0.32	ppb	1.09	0.32	ppb
1,1,1,2-Tetrachloroethane	<0.35	ppb	1.09	0.35	ppb
Ethylbenzene	<0.37	ppb	1.09	0.37	ppb
m,p-xylene	1.4	ppb	1.09	0.69	ppb
o-xylene	<0.31	ppb	1.09	0.31	ppb
Styrene	<0.32	ppb	1.09	0.32	ppb
Isopropylbenzene	<0.28	ppb	1.09	0.28	ppb
Bromoform	<0.52	ppb	1.09	0.52	ppb
1,1,2,2-Tetrachloroethane	<0.55	ppb	1.09	0.55	ppb
1,2,3-Trichloropropane	<0.5	ppb	1.09	0.5	ppb
n-Propylbenzene	<0.45	ppb	1.09	0.45	ppb
Bromobenzene	<0.48	ppb	1.09	0.48	ppb
1,3,5-Trimethylbenzene	<0.33	ppb	1.09	0.33	ppb
2-Chlorotoluene	<0.28	ppb	1.09	0.28	ppb
4-Chlorotoluene	<0.37	ppb	1.09	0.37	ppb
4-Isopropyltoluene	<0.39	ppb	1.09	0.39	ppb
1,2,4-Trimethylbenzene	0.92	ppb	1.09	0.45	ppb
sec-Butylbenzene	<0.39	ppb	1.09	0.39	ppb
tert-Butylbenzene	<0.57	ppb	1.09	0.57	ppb
1,3-Dichlorobenzene	<0.35	ppb	1.09	0.35	ppb
1,4-Dichlorobenzene	<0.35	ppb	1.09	0.35	ppb
n-Butylbenzene	<0.43	ppb	1.09	0.43	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.09	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #12 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.78**	ppb	1.09	0.78	ppb
1,2,4-Trichlorobenzene	**<0.45**	ppb	1.09	0.45	ppb
Hexachlorobutadiene	**<0.38**	ppb	1.09	0.38	ppb
Naphthalene	**<0.6**	ppb	1.09	0.6	ppb
1,2,3-Trichlorobenzene	**<0.33**	ppb	1.09	0.33	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6287
Collected: 04/09/98
Location: SS #12 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.7	ppb	1.10	0.7	ppb
Chloromethane	<0.37	ppb	1.10	0.37	ppb
Vinyl Chloride	<0.66	ppb	1.10	0.66	ppb
Bromomethane	<0.43	ppb	1.10	0.43	ppb
Chloroethane	<0.21	ppb	1.10	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.10	0.12	ppb
1,1-Dichloroethene	<0.23	ppb	1.10	0.23	ppb
Methylene Chloride	<0.65	ppb	1.10	0.65	ppb
t-1,2-Dichloroethene	<0.45	ppb	1.10	0.45	ppb
1,1-Dichloroethane	<0.18	ppb	1.10	0.18	ppb
2,2-Dichloropropane	<0.25	ppb	1.10	0.25	ppb
c-1,2-Dichloroethene	<0.55	ppb	1.10	0.55	ppb
Chloroform	<0.19	ppb	1.10	0.19	ppb
Bromochloromethane	<0.28	ppb	1.10	0.28	ppb
1,1,1-Trichloroethane	<0.31	ppb	1.10	0.31	ppb
1,1-Dichloropropene	<0.43	ppb	1.10	0.43	ppb
Carbon Tetrachloride	<0.3	ppb	1.10	0.3	ppb
1,2-Dichloroethane	<0.33	ppb	1.10	0.33	ppb
Benzene	<0.31	ppb	1.10	0.31	ppb
Trichloroethene	<0.33	ppb	1.10	0.33	ppb
1,2-Dichloropropane	<0.2	ppb	1.10	0.2	ppb
Bromodichloromethane	<0.21	ppb	1.10	0.21	ppb
Dibromomethane	<0.58	ppb	1.10	0.58	ppb
c-1,3-Dichloropropene	<0.28	ppb	1.10	0.28	ppb
Toluene	<0.36	ppb	1.10	0.36	ppb
t-1,3-Dichloropropene	<0.45	ppb	1.10	0.45	ppb
1,1,2-Trichloroethane	<0.54	ppb	1.10	0.54	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #12 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.52	ppb	1.10	0.52	ppb
Tetrachloroethene	2.7	ppb	1.10	0.31	ppb
Dibromochloromethane	<0.32	ppb	1.10	0.32	ppb
1,2-Dibromoethane	<0.55	ppb	1.10	0.55	ppb
Chlorobenzene	<0.32	ppb	1.10	0.32	ppb
1,1,1,2-Tetrachloroethane	<0.35	ppb	1.10	0.35	ppb
Ethylbenzene	<0.37	ppb	1.10	0.37	ppb
m,p-xylene	<0.69	ppb	1.10	0.69	ppb
o-xylene	<0.31	ppb	1.10	0.31	ppb
Styrene	<0.32	ppb	1.10	0.32	ppb
Isopropylbenzene	<0.29	ppb	1.10	0.29	ppb
Bromoform	<0.53	ppb	1.10	0.53	ppb
1,1,2,2-Tetrachloroethane	<0.55	ppb	1.10	0.55	ppb
1,2,3-Trichloropropane	<0.51	ppb	1.10	0.51	ppb
n-Propylbenzene	<0.45	ppb	1.10	0.45	ppb
Bromobenzene	<0.48	ppb	1.10	0.48	ppb
1,3,5-Trimethylbenzene	<0.33	ppb	1.10	0.33	ppb
2-Chlorotoluene	<0.29	ppb	1.10	0.29	ppb
4-Chlorotoluene	<0.37	ppb	1.10	0.37	ppb
4-Isopropyltoluene	<0.4	ppb	1.10	0.4	ppb
1,2,4-Trimethylbenzene	<0.45	ppb	1.10	0.45	ppb
sec-Butylbenzene	<0.4	ppb	1.10	0.4	ppb
tert-Butylbenzene	<0.57	ppb	1.10	0.57	ppb
1,3-Dichlorobenzene	<0.35	ppb	1.10	0.35	ppb
1,4-Dichlorobenzene	<0.35	ppb	1.10	0.35	ppb
n-Butylbenzene	<0.43	ppb	1.10	0.43	ppb
1,2-Dichlorobenzene	<0.3	ppb	1.10	0.3	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6287
Collected: 04/09/98
Location: SS #12 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/18/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.79**	ppb	1.10	0.79	ppb
1,2,4-Trichlorobenzene	**<0.45**	ppb	1.10	0.45	ppb
Hexachlorobutadiene	**<0.39**	ppb	1.10	0.39	ppb
Naphthalene	**<0.6**	ppb	1.10	0.6	ppb
1,2,3-Trichlorobenzene	**<0.33**	ppb	1.10	0.33	ppb

Reviewed by: _____

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis; Air MDLs based on 1 L of sample.* ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6287
Collected: 04/09/98
Location: SS #1 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**83.5**	%	1		%

Sample 2
Custody: G6287
Collected: 04/09/98
Location: SS #13 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**92.9**	%	1		%

Sample 3
Custody: G6287
Collected: 04/09/98
Location: SS #13 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**92.2**	%	1		%

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Total Solids

04/21/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6287
Received: 04/09/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6287
Collected: 04/09/98
Location: SS #12 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**91.9**	%	1		%

Sample 5
Custody: G6287
Collected: 04/09/98
Location: SS #12 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/14/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**90.5**	%	1		%

Reviewed by: Peggy Lange PW

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL
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NY NH MA VT
NJ RI DE ME
CT PA MD VA ___

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6287

Project Name: 213 Lakeville Rd | Project Manager: Jeff Bohlen

Sampler (Signature): [signature] (Print): Jeff Bohlen

Project Address: Lake Success

Bill to: Nelson Env. J/N: 15085 | ☐ Rush by / /

SAMPLE INFO | **Type:** SS = Split Spoon; G = Grab; C = Composite; B = Blank | **Matrix:** L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | * Air - Vol. (Liters) include Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location
1	4/1/98		SS	S	SS # 1 (30'-32')
2					SS # 13 (18'-20')
3					SS # 13 (30'-32')
4					SS # 12 (18'-20')
5					SS # 12 (26'-28')
6					
7					
8					
9					
10					
11					
12					
13					

601/8010 | 602/8020 | BTX/BTEX | MTBE | 624/8240/8260 | 625/8270/BN | PCB/Pesticides | Pet. Prods. | TCLP Metals | RCRA Metals | Reactivity | pH - Corrosivity | Ignitability | 418.1 - TRPH

Relinquished by (Signature): [signature]	Date 4/9/98 Time 1:40 pm	Printed Name & Agent: [illegible] (AEL)	Received by (Signature):	Date Time / Printed Name & Agent:
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions:	Disposal Facility:
Received for Lab by (Signature): Pauline Tinch	Date 4/9/98 Time 3:40 pm	Printed Name: Pauline	Number & Type of Containers: 2-8oz, 4-4oz, 4-2oz. 5°C	Preservatives:

4/10/98

Environmental Testing Laboratories, Inc.
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CASE NARRATIVE

Project **Custody Document G5379**

Print Date: 05/01/98

Handler: Jeff Bohlen

EPA624

The following compounds were calibrated at 50, 200, 500, 1000 and 1500 ppb levels in the initial calibration curve:

Acrolein
Acrylonitrile

M&P-Xylenes,2-Chloroethylvinyl ether and MTBE were calibrated at 10, 40, 100, 200 and 300 ppb levels.

1,4 Dioxane was calibrated at 30, 120, 300, 600 and 900 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples G5379-3 and 12 contained high amounts of Tetrachloroethene in the straight analysis. When dilutions were analyzed using duplicate vials, concentrations did not confirm. The original straight analysis result was reported.

Reviewed by: Peggy Longo

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 1
Custody: G5379
Collected: 04/16/98 2:05 PM
Location: GP-1 (46'-50')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**<0.10**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 1 (continued)
Custody: G5379
Collected: 04/16/98 2:05 PM
Location: GP-1 (46'-50')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 2
Custody: G5379
Collected: 04/16/98 2:15 PM
Location: GP-1 (38'-42')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**5.9**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 2 (continued)
Custody: G5379
Collected: 04/16/98 2:15 PM
Location: GP-1 (38'-42')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 3
Custody: G5379
Collected: 04/16/98 2:30 PM
Location: GP-1 (30'-34')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units	
Chloromethane	**<0.23**	ppb	1	0.23	ppb	
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb	
Bromomethane	**<0.33**	ppb	1	0.33	ppb	
Chloroethane	**<0.20**	ppb	1	0.20	ppb	
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb	
Acrolein	**<5.65**	ppb	1	5.65	ppb	
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb	
Dichloromethane	**<0.17**	ppb	1	0.17	ppb	
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb	
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb	
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb	
Chloroform	**<0.12**	ppb	1	0.12	ppb	
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb	
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb	
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb	
Benzene	**<0.13**	ppb	1	0.13	ppb	
Trichloroethene	**6.7**	ppb	1	0.16	ppb	
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb	
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb	
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb	
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb	
Toluene	**<0.09**	ppb	1	0.09	ppb	
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb	
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb	
Tetrachloroethene	**3830**	ppb	1	0.10	ppb	E
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb	
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb	
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb	

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 3 (continued)
Custody: G5379
Collected: 04/16/98 2:30 PM
Location: GP-1 (30'-34')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 4
Custody: G5379
Collected: 04/16/98 12:50 PM
Location: GP-2 (46'-50')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**1.7**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 4 (continued)
Custody: G5379
Collected: 04/16/98 12:50 PM
Location: GP-2 (46'-50')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 5
Custody: G5379
Collected: 04/16/98 1:00 PM
Location: GP-2 (38'-42')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**3.8**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 5 (continued)
Custody: G5379
Collected: 04/16/98 1:00 PM
Location: GP-2 (38'-42')
Remarks:

Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

05/01/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 6
Custody: G5379
Collected: 04/16/98 1:20 PM
Location: GP-2 (30'-34')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**16.4**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**<0.10**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 6 (continued)
Custody: G5379
Collected: 04/16/98 1:20 PM
Location: GP-2 (30'-34')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis*; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 7
Custody: G5379
Collected: 04/16/98 9:38 AM
Location: GP-3 (48'-52')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**3.1**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 7 (continued)
Custody: G5379
Collected: 04/16/98 9:38 AM
Location: GP-3 (48'-52')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 8
Custody: G5379
Collected: 04/16/98 9:47 AM
Location: GP-3 (40'-44')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**<0.10**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 8 (continued)
Custody: G5379
Collected: 04/16/98 9:47 AM
Location: GP-3 (40'-44')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 9
Custody: G5379
Collected: 04/16/98 10:00 AM
Location: GP-3 (32'-36')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**1.2**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**61.4**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 9 (continued)
Custody: G5379
Collected: 04/16/98 10:00 AM
Location: GP-3 (32'-36')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 10
Custody: G5379
Collected: 04/16/98 11:00 AM
Location: GP-4 (48'-52')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**<0.10**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 10 (continued)
Custody: G5379
Collected: 04/16/98 11:00 AM
Location: GP-4 (48'-52')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 11
Custody: G5379
Collected: 04/16/98 11:15 AM
Location: GP-4 (40'-44')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Chloromethane	**<0.23**	ppb	1	0.23	ppb
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb
Bromomethane	**<0.33**	ppb	1	0.33	ppb
Chloroethane	**<0.20**	ppb	1	0.20	ppb
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb
Acrolein	**<5.65**	ppb	1	5.65	ppb
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb
Dichloromethane	**<0.17**	ppb	1	0.17	ppb
t-1,2-Dichloroethene	**<0.16**	ppb	1	0.16	ppb
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb
Chloroform	**<0.12**	ppb	1	0.12	ppb
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb
Benzene	**<0.13**	ppb	1	0.13	ppb
Trichloroethene	**<0.16**	ppb	1	0.16	ppb
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb
Toluene	**<0.09**	ppb	1	0.09	ppb
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb
Tetrachloroethene	**<0.10**	ppb	1	0.10	ppb
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Manager: Jeff Bohlen

Sample 11 (continued)
Custody: G5379
Collected: 04/16/98 11:15 AM
Location: GP-4 (40'-44')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**<0.11**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**<0.14**	ppb	1	0.14	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 12
Custody: G5379
Collected: 04/16/98 11:50 AM
Location: GP-4 (32'-36')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units	
Chloromethane	**<0.23**	ppb	1	0.23	ppb	
Vinyl Chloride	**<0.13**	ppb	1	0.13	ppb	
Bromomethane	**<0.33**	ppb	1	0.33	ppb	
Chloroethane	**<0.20**	ppb	1	0.20	ppb	
Trichlorofluoromethane	**<0.15**	ppb	1	0.15	ppb	
Acrolein	**<5.65**	ppb	1	5.65	ppb	
1,1-Dichloroethene	**<0.17**	ppb	1	0.17	ppb	
Dichloromethane	**<0.17**	ppb	1	0.17	ppb	
t-1,2-Dichloroethene	**3.6**	ppb	1	0.16	ppb	
Acrylonitrile	**<4.32**	ppb	1	4.32	ppb	
1,1-Dichloroethane	**<0.13**	ppb	1	0.13	ppb	
Chloroform	**<0.12**	ppb	1	0.12	ppb	
1,1,1-Trichloroethane	**<0.13**	ppb	1	0.13	ppb	
Carbon Tetrachloride	**<0.11**	ppb	1	0.11	ppb	
1,2-Dichloroethane	**<0.17**	ppb	1	0.17	ppb	
Benzene	**3.8**	ppb	1	0.13	ppb	
Trichloroethene	**51.6**	ppb	1	0.16	ppb	
1,2-Dichloropropane	**<0.12**	ppb	1	0.12	ppb	
Bromodichloromethane	**<0.21**	ppb	1	0.21	ppb	
2-Chloroethylvinylether	**<1.03**	ppb	1	1.03	ppb	
1,3-Dichloropropene	**<0.12**	ppb	1	0.12	ppb	
Toluene	**<0.09**	ppb	1	0.09	ppb	
t-1,3-Dichloropropene	**<0.13**	ppb	1	0.13	ppb	
1,1,2-Trichloroethane	**<0.13**	ppb	1	0.13	ppb	
Tetrachloroethene	**7210**	ppb	1	0.10	ppb	E
Dibromochloromethane	**<0.14**	ppb	1	0.14	ppb	
Chlorobenzene	**<0.18**	ppb	1	0.18	ppb	
Ethylbenzene	**<0.13**	ppb	1	0.13	ppb	

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA 624 (GC/MS)

04/30/98

Project

Manager: Jeff Bohlen

Custody Document G5379
Received: 04/16/98 5:05 PM
Sampled by: Jeff Bohlen
Job Number:
Area: 218 Lakeville Road

Sample 12 (continued)
Custody: G5379
Collected: 04/16/98 11:50 AM
Location: GP-4 (32'-36')
Remarks:
Type: Grab
Matrix: Liquid

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Xylene	**<0.53**	ppb	1	0.53	ppb
Bromoform	**<0.13**	ppb	1	0.13	ppb
1,1,2,2-Tetrachloroethane	**<0.18**	ppb	1	0.18	ppb
1,3-Dichlorobenzene	**4.6**	ppb	1	0.11	ppb
1,4-Dichlorobenzene	**2.6**	ppb	1	0.14	ppb
1,2-Dichlorobenzene	**6.0**	ppb	1	0.14	ppb

Reviewed by:

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL
Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-8344

208 Route 109 • Farmingdale • New York 11735

NY NH MA VT
NJ RI DE ME
CT PA MD VA

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 5379

Project Name: 218 Lakeville Rd | Project Manager: Jeff Bohlen | Sampler (Signature): [signature] (Print): Jeff Bohlen

Project Address: Lake Success

Bill to: Hanson Env. J/N: 15285 | ☐ Rush by / /

SAMPLE INFO | Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank | Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | * Air - Vol. (Liters) include : Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	601/8010	602/8020	BTX/BTEX	MTBE	624/8240/8260	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1 - TRPH
1	4/16/98	2:05	G	L	GP-1 (46'-50')					X									
2		2:15			GP-1 (38'-42')														
3		2:30			GP-1 (30'-34')														
4		12:50			GP-2 (46'-50')														
5		1:00			GP-2 (38'-42')														
6		1:20			GP-2 (30'-34')														
7		9:38			GP-3 (48'-52')														
8		9:47			GP-3 (40'-44')														
9		10:00			GP-3 (32'-36')														
10		11:00			GP-4 (48'-52')														
11		11:15			GP-4 (40'-44')														
12	↓	11:50	↓	↓	GP-4 (32'-36')														
13																			

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent:
[signature]	4/16/98 3:40pm	Jeff Bohlen (AEL)			
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Comments & Special Instructions:		Disposal Facility:
[signature]	4/16/98 16:30	JOHN TEGINS-AEL			
Received for Lab by (Signature):	Date / Time	Printed Name:	Number & Type of Containers:		Preservatives:
[signature]	4/16/98 4:30pm	[signature]	24 - 40mL Jar Vials	4°C	HCL

4/16/98

Environmental Testing Laboratories, Inc.
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Case Narrative

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6288

Print Date: 05/21/98

EPA 624 & EPA 8260 :

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: Peggy Chiu

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6288
Collected: 04/07/98
Location: SS #5 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.72	ppb	1.13	0.72	ppb
Chloromethane	<0.38	ppb	1.13	0.38	ppb
Vinyl Chloride	<0.68	ppb	1.13	0.68	ppb
Bromomethane	<0.44	ppb	1.13	0.44	ppb
Chloroethane	<0.21	ppb	1.13	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.13	0.12	ppb
1,1-Dichloroethene	<0.24	ppb	1.13	0.24	ppb
Methylene Chloride	<0.67	ppb	1.13	0.67	ppb
t-1,2-Dichloroethene	<0.46	ppb	1.13	0.46	ppb
1,1-Dichloroethane	<0.18	ppb	1.13	0.18	ppb
2,2-Dichloropropane	<0.26	ppb	1.13	0.26	ppb
c-1,2-Dichloroethene	<0.57	ppb	1.13	0.57	ppb
Chloroform	<0.19	ppb	1.13	0.19	ppb
Bromochloromethane	<0.28	ppb	1.13	0.28	ppb
1,1,1-Trichloroethane	<0.32	ppb	1.13	0.32	ppb
1,1-Dichloropropene	<0.44	ppb	1.13	0.44	ppb
Carbon Tetrachloride	<0.31	ppb	1.13	0.31	ppb
1,2-Dichloroethane	<0.34	ppb	1.13	0.34	ppb
Benzene	<0.32	ppb	1.13	0.32	ppb
Trichloroethene	<0.34	ppb	1.13	0.34	ppb
1,2-Dichloropropane	<0.2	ppb	1.13	0.2	ppb
Bromodichloromethane	<0.21	ppb	1.13	0.21	ppb
Dibromomethane	<0.6	ppb	1.13	0.6	ppb
c-1,3-Dichloropropene	<0.28	ppb	1.13	0.28	ppb
Toluene	<0.37	ppb	1.13	0.37	ppb
t-1,3-Dichloropropene	<0.46	ppb	1.13	0.46	ppb
1,1,2-Trichloroethane	<0.55	ppb	1.13	0.55	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #5 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.53	ppb	1.13	0.53	ppb
Tetrachloroethene	16.4	ppb	1.13	0.32	ppb
Dibromochloromethane	<0.33	ppb	1.13	0.33	ppb
1,2-Dibromoethane	<0.57	ppb	1.13	0.57	ppb
Chlorobenzene	<0.33	ppb	1.13	0.33	ppb
1,1,1,2-Tetrachloroethane	<0.36	ppb	1.13	0.36	ppb
Ethylbenzene	<0.38	ppb	1.13	0.38	ppb
m,p-xylene	3.4	ppb	1.13	0.71	ppb
o-xylene	<0.32	ppb	1.13	0.32	ppb
Styrene	<0.33	ppb	1.13	0.33	ppb
Isopropylbenzene	<0.29	ppb	1.13	0.29	ppb
Bromoform	<0.54	ppb	1.13	0.54	ppb
1,1,2,2-Tetrachloroethane	<0.57	ppb	1.13	0.57	ppb
1,2,3-Trichloropropane	<0.52	ppb	1.13	0.52	ppb
n-Propylbenzene	<0.46	ppb	1.13	0.46	ppb
Bromobenzene	<0.5	ppb	1.13	0.5	ppb
1,3,5-Trimethylbenzene	1.7	ppb	1.13	0.34	ppb
2-Chlorotoluene	<0.29	ppb	1.13	0.29	ppb
4-Chlorotoluene	<0.38	ppb	1.13	0.38	ppb
4-Isopropyltoluene	<0.41	ppb	1.13	0.41	ppb
1,2,4-Trimethylbenzene	3.9	ppb	1.13	0.46	ppb
sec-Butylbenzene	<0.41	ppb	1.13	0.41	ppb
tert-Butylbenzene	<0.59	ppb	1.13	0.59	ppb
1,3-Dichlorobenzene	<0.36	ppb	1.13	0.36	ppb
1,4-Dichlorobenzene	1.3	ppb	1.13	0.36	ppb
n-Butylbenzene	<0.44	ppb	1.13	0.44	ppb
1,2-Dichlorobenzene	<0.31	ppb	1.13	0.31	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #5 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.81**	ppb	1.13	0.81	ppb
1,2,4-Trichlorobenzene	**<0.46**	ppb	1.13	0.46	ppb
Hexachlorobutadiene	**<0.4**	ppb	1.13	0.4	ppb
Naphthalene	**<0.62**	ppb	1.13	0.62	ppb
1,2,3-Trichlorobenzene	**<0.34**	ppb	1.13	0.34	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6288
Collected: 04/07/98
Location: SS #5 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.72	ppb	1.13	0.72	ppb
Chloromethane	<0.38	ppb	1.13	0.38	ppb
Vinyl Chloride	<0.68	ppb	1.13	0.68	ppb
Bromomethane	<0.44	ppb	1.13	0.44	ppb
Chloroethane	<0.21	ppb	1.13	0.21	ppb
Trichlorofluoromethane	<0.12	ppb	1.13	0.12	ppb
1,1-Dichloroethene	<0.24	ppb	1.13	0.24	ppb
Methylene Chloride	<0.67	ppb	1.13	0.67	ppb
t-1,2-Dichloroethene	<0.46	ppb	1.13	0.46	ppb
1,1-Dichloroethane	<0.18	ppb	1.13	0.18	ppb
2,2-Dichloropropane	<0.26	ppb	1.13	0.26	ppb
c-1,2-Dichloroethene	3.4	ppb	1.13	0.57	ppb
Chloroform	<0.19	ppb	1.13	0.19	ppb
Bromochloromethane	<0.28	ppb	1.13	0.28	ppb
1,1,1-Trichloroethane	<0.32	ppb	1.13	0.32	ppb
1,1-Dichloropropene	<0.44	ppb	1.13	0.44	ppb
Carbon Tetrachloride	<0.31	ppb	1.13	0.31	ppb
1,2-Dichloroethane	<0.34	ppb	1.13	0.34	ppb
Benzene	<0.32	ppb	1.13	0.32	ppb
Trichloroethene	<0.34	ppb	1.13	0.34	ppb
1,2-Dichloropropane	<0.2	ppb	1.13	0.2	ppb
Bromodichloromethane	<0.21	ppb	1.13	0.21	ppb
Dibromomethane	<0.6	ppb	1.13	0.6	ppb
c-1,3-Dichloropropene	<0.28	ppb	1.13	0.28	ppb
Toluene	<0.37	ppb	1.13	0.37	ppb
t-1,3-Dichloropropene	<0.46	ppb	1.13	0.46	ppb
1,1,2-Trichloroethane	<0.55	ppb	1.13	0.55	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #5 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.53	ppb	1.13	0.53	ppb
Tetrachloroethene	60.3	ppb	1.13	0.32	ppb
Dibromochloromethane	<0.33	ppb	1.13	0.33	ppb
1,2-Dibromoethane	<0.57	ppb	1.13	0.57	ppb
Chlorobenzene	<0.33	ppb	1.13	0.33	ppb
1,1,1,2-Tetrachloroethane	<0.36	ppb	1.13	0.36	ppb
Ethylbenzene	<0.38	ppb	1.13	0.38	ppb
m,p-xylene	<0.71	ppb	1.13	0.71	ppb
o-xylene	<0.32	ppb	1.13	0.32	ppb
Styrene	<0.33	ppb	1.13	0.33	ppb
Isopropylbenzene	<0.29	ppb	1.13	0.29	ppb
Bromoform	<0.54	ppb	1.13	0.54	ppb
1,1,2,2-Tetrachloroethane	<0.57	ppb	1.13	0.57	ppb
1,2,3-Trichloropropane	<0.52	ppb	1.13	0.52	ppb
n-Propylbenzene	<0.46	ppb	1.13	0.46	ppb
Bromobenzene	<0.5	ppb	1.13	0.5	ppb
1,3,5-Trimethylbenzene	<0.34	ppb	1.13	0.34	ppb
2-Chlorotoluene	<0.29	ppb	1.13	0.29	ppb
4-Chlorotoluene	<0.38	ppb	1.13	0.38	ppb
4-Isopropyltoluene	<0.41	ppb	1.13	0.41	ppb
1,2,4-Trimethylbenzene	<0.46	ppb	1.13	0.46	ppb
sec-Butylbenzene	<0.41	ppb	1.13	0.41	ppb
tert-Butylbenzene	<0.59	ppb	1.13	0.59	ppb
1,3-Dichlorobenzene	<0.36	ppb	1.13	0.36	ppb
1,4-Dichlorobenzene	<0.36	ppb	1.13	0.36	ppb
n-Butylbenzene	<0.44	ppb	1.13	0.44	ppb
1,2-Dichlorobenzene	<0.31	ppb	1.13	0.31	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #5 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.81**	ppb	1.13	0.81	ppb
1,2,4-Trichlorobenzene	**<0.46**	ppb	1.13	0.46	ppb
Hexachlorobutadiene	**<0.4**	ppb	1.13	0.4	ppb
Naphthalene	**<0.62**	ppb	1.13	0.62	ppb
1,2,3-Trichlorobenzene	**<0.34**	ppb	1.13	0.34	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6288
Collected: 04/07/98
Location: SS #6 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<1300	ppb	1,448	1300	ppb
Chloromethane	<870	ppb	1,448	870	ppb
Vinyl Chloride	<650	ppb	1,448	650	ppb
Bromomethane	<960	ppb	1,448	960	ppb
Chloroethane	<1200	ppb	1,448	1200	ppb
Trichlorofluoromethane	<650	ppb	1,448	650	ppb
1,1-Dichloroethene	<700	ppb	1,448	700	ppb
Methylene Chloride	<430	ppb	1,448	430	ppb
t-1,2-Dichloroethene	<410	ppb	1,448	410	ppb
1,1-Dichloroethane	<260	ppb	1,448	260	ppb
2,2-Dichloropropane	<590	ppb	1,448	590	ppb
c-1,2-Dichloroethene	<490	ppb	1,448	490	ppb
Chloroform	<380	ppb	1,448	380	ppb
Bromochloromethane	<430	ppb	1,448	430	ppb
1,1,1-Trichloroethane	<520	ppb	1,448	520	ppb
1,1-Dichloropropene	<2140	ppb	1,448	2140	ppb
Carbon Tetrachloride	<510	ppb	1,448	510	ppb
1,2-Dichloroethane	<280	ppb	1,448	280	ppb
Benzene	<620	ppb	1,448	620	ppb
Trichloroethene	<390	ppb	1,448	390	ppb
1,2-Dichloropropane	<390	ppb	1,448	390	ppb
Bromodichloromethane	<170	ppb	1,448	170	ppb
Dibromomethane	<450	ppb	1,448	450	ppb
c-1,3-Dichloropropene	<280	ppb	1,448	280	ppb
Toluene	<670	ppb	1,448	670	ppb
t-1,3-Dichloropropene	<300	ppb	1,448	300	ppb
1,1,2-Trichloroethane	<540	ppb	1,448	540	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #6 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<160	ppb	1,448	160	ppb
Tetrachloroethene	32100	ppb	1,448	420	ppb
Dibromochloromethane	<260	ppb	1,448	260	ppb
1,2-Dibromoethane	<200	ppb	1,448	200	ppb
Chlorobenzene	<320	ppb	1,448	320	ppb
1,1,1,2-Tetrachloroethane	<460	ppb	1,448	460	ppb
Ethylbenzene	<300	ppb	1,448	300	ppb
m,p-xylene	<650	ppb	1,448	650	ppb
o-xylene	<390	ppb	1,448	390	ppb
Styrene	3030	ppb	1,448	430	ppb
Isopropylbenzene	<300	ppb	1,448	300	ppb
Bromoform	<290	ppb	1,448	290	ppb
1,1,2,2-Tetrachloroethane	<200	ppb	1,448	200	ppb
1,2,3-Trichloropropane	<1000	ppb	1,448	1000	ppb
n-Propylbenzene	<1000	ppb	1,448	1000	ppb
Bromobenzene	<280	ppb	1,448	280	ppb
1,3,5-Trimethylbenzene	<1740	ppb	1,448	1740	ppb
2-Chlorotoluene	<390	ppb	1,448	390	ppb
4-Chlorotoluene	<200	ppb	1,448	200	ppb
4-Isopropyltoluene	<450	ppb	1,448	450	ppb
1,2,4-Trimethylbenzene	<4780	ppb	1,448	4780	ppb
sec-Butylbenzene	<520	ppb	1,448	520	ppb
tert-Butylbenzene	<430	ppb	1,448	430	ppb
1,3-Dichlorobenzene	<160	ppb	1,448	160	ppb
1,4-Dichlorobenzene	<200	ppb	1,448	200	ppb
n-Butylbenzene	<460	ppb	1,448	460	ppb
1,2-Dichlorobenzene	<280	ppb	1,448	280	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #6 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<650**	ppb	1,448	650	ppb
1,2,4-Trichlorobenzene	**<390**	ppb	1,448	390	ppb
Hexachlorobutadiene	**<460**	ppb	1,448	460	ppb
Naphthalene	**<260**	ppb	1,448	260	ppb
1,2,3-Trichlorobenzene	**<190**	ppb	1,448	190	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6288
Collected: 04/07/98
Location: SS #6 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.68	ppb	1.06	0.68	ppb
Chloromethane	<0.36	ppb	1.06	0.36	ppb
Vinyl Chloride	<0.64	ppb	1.06	0.64	ppb
Bromomethane	<0.41	ppb	1.06	0.41	ppb
Chloroethane	<0.2	ppb	1.06	0.2	ppb
Trichlorofluoromethane	<0.12	ppb	1.06	0.12	ppb
1,1-Dichloroethene	<0.22	ppb	1.06	0.22	ppb
Methylene Chloride	<0.63	ppb	1.06	0.63	ppb
t-1,2-Dichloroethene	<0.43	ppb	1.06	0.43	ppb
1,1-Dichloroethane	<0.17	ppb	1.06	0.17	ppb
2,2-Dichloropropane	<0.24	ppb	1.06	0.24	ppb
c-1,2-Dichloroethene	1.4	ppb	1.06	0.53	ppb
Chloroform	<0.18	ppb	1.06	0.18	ppb
Bromochloromethane	<0.27	ppb	1.06	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.06	0.3	ppb
1,1-Dichloropropene	<0.41	ppb	1.06	0.41	ppb
Carbon Tetrachloride	<0.29	ppb	1.06	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.06	0.32	ppb
Benzene	<0.3	ppb	1.06	0.3	ppb
Trichloroethene	<0.32	ppb	1.06	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.06	0.19	ppb
Bromodichloromethane	<0.2	ppb	1.06	0.2	ppb
Dibromomethane	<0.56	ppb	1.06	0.56	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.06	0.27	ppb
Toluene	<0.35	ppb	1.06	0.35	ppb
t-1,3-Dichloropropene	<0.43	ppb	1.06	0.43	ppb
1,1,2-Trichloroethane	<0.52	ppb	1.06	0.52	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #6 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.5	ppb	1.06	0.5	ppb
Tetrachloroethene	8.0	ppb	5.3	1.5	ppb
Dibromochloromethane	<0.31	ppb	1.06	0.31	ppb
1,2-Dibromoethane	<0.53	ppb	1.06	0.53	ppb
Chlorobenzene	<0.31	ppb	1.06	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.34	ppb	1.06	0.34	ppb
Ethylbenzene	<0.36	ppb	1.06	0.36	ppb
m,p-xylene	<0.67	ppb	1.06	0.67	ppb
o-xylene	<0.3	ppb	1.06	0.3	ppb
Styrene	<0.31	ppb	1.06	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.06	0.28	ppb
Bromoform	<0.51	ppb	1.06	0.51	ppb
1,1,2,2-Tetrachloroethane	<0.53	ppb	1.06	0.53	ppb
1,2,3-Trichloropropane	<0.49	ppb	1.06	0.49	ppb
n-Propylbenzene	<0.43	ppb	1.06	0.43	ppb
Bromobenzene	<0.47	ppb	1.06	0.47	ppb
1,3,5-Trimethylbenzene	<0.32	ppb	1.06	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.06	0.28	ppb
4-Chlorotoluene	<0.36	ppb	1.06	0.36	ppb
4-Isopropyltoluene	<0.38	ppb	1.06	0.38	ppb
1,2,4-Trimethylbenzene	<0.43	ppb	1.06	0.43	ppb
sec-Butylbenzene	<0.38	ppb	1.06	0.38	ppb
tert-Butylbenzene	<0.55	ppb	1.06	0.55	ppb
1,3-Dichlorobenzene	<0.34	ppb	1.06	0.34	ppb
1,4-Dichlorobenzene	<0.34	ppb	1.06	0.34	ppb
n-Butylbenzene	<0.41	ppb	1.06	0.41	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.06	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6288
Collected: 04/07/98
Location: SS #6 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.76**	ppb	1.06	0.76	ppb
1,2,4-Trichlorobenzene	**<0.43**	ppb	1.06	0.43	ppb
Hexachlorobutadiene	**<0.37**	ppb	1.06	0.37	ppb
Naphthalene	**1.3**	ppb	1.06	0.58	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.06	0.32	ppb

Reviewed by: Patricia Werner

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Ketones & Ethers (624/8260)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6288
Collected: 04/07/98
Location: SS #6 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	**<4170**	ppb	1,448	4170	ppb

Sample 5
Custody: G6288
Collected: 04/07/98
Location: SS #6 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/11/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	**<0.71**	ppb	1.06	0.71	ppb

Reviewed by: Patricia Werner

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - Total Solids

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6288
Collected: 04/07/98
Location: SS #5 (18'-20')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/09/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**88.4**	%	1		%

Sample 3
Custody: G6288
Collected: 04/07/98
Location: SS #5 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/09/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**88.2**	%	1		%

Sample 4
Custody: G6288
Collected: 04/07/98
Location: SS #6 (0'-2')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/09/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**86.3**	%	1		%

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ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Total Solids

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6288
Received: 04/07/98 4:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6288
Collected: 04/07/98
Location: SS #6 (26'-28')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/09/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**94.3**	%	1		%

Reviewed by: Patricia Werner PD

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL
Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-8344

208 Route 109 • Farmingdale • New York 11735

NY NH MA VT
NJ RI DE ME
CT PA MD VA

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6288

Project Name: [illegible] Project Manager: Jeff Bohlen

Project Address: [illegible] Success

Bill to: [illegible] J/N: 95085 ☐ Rush by / /

Sampler (Signature): [signature] (Print): Jeff Bohlen

SAMPLE INFO

Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank
Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe
* Air - include Vol. (Liters) Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location
1	4/7/98		G	L	MW-4
2	"		S	S	SS#5 (18'-20')
3	"		"	"	SS#5 (28'-30')
4	"		"	"	SS#6 (0'-2')
5	"		"	"	SS#6 (26'-28')
6					
7					
8					
9					
10					
11					
12					
13					

601/8010 | 602/8020 | BTX/BTEX | MTBE | 624/8240/8260 | 625/8270/BN | PCB/Pesticides | Pet. Prods. | TCLP Metals | RCRA Metals | Reactivity | pH - Corrosivity | Ignitability | 418.1 - TRPH

RCRA

Relinquished by (Signature): [signature]	Date 4/7/98 Time 4:10 Pm	Printed Name & Agent: Jeff Bohlen (NEL)	Received by (Signature):	Date Time	Printed Name & Agent:
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions:		Disposal Facility:
Received for Lab by (Signature): [signature]	Date 4/7/98 Time 4:10 pm	Printed Name: [illegible]	Number & Type of Containers: 2 VOAs 3 8oz + 5-2oz 6c		Preservatives: HCL

4/7/98

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

Case Narrative

Project

218 Lakeville Rd
Lake Success, NY
Handler: Jeff Bohlen

Custody Document G6286

Print Date: 05/21/98

EPA 8260:

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 10, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: Peggy Lodge

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6286
Collected: 04/13/98
Location: SS #9 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.68	ppb	1.07	0.68	ppb
Chloromethane	<0.36	ppb	1.07	0.36	ppb
Vinyl Chloride	<0.64	ppb	1.07	0.64	ppb
Bromomethane	<0.42	ppb	1.07	0.42	ppb
Chloroethane	<0.2	ppb	1.07	0.2	ppb
Trichlorofluoromethane	<0.12	ppb	1.07	0.12	ppb
1,1-Dichloroethene	<0.22	ppb	1.07	0.22	ppb
Methylene Chloride	<0.63	ppb	1.07	0.63	ppb
t-1,2-Dichloroethene	<0.44	ppb	1.07	0.44	ppb
1,1-Dichloroethane	<0.17	ppb	1.07	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.07	0.25	ppb
c-1,2-Dichloroethene	<0.54	ppb	1.07	0.54	ppb
Chloroform	<0.18	ppb	1.07	0.18	ppb
Bromochloromethane	<0.27	ppb	1.07	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.07	0.3	ppb
1,1-Dichloropropene	<0.42	ppb	1.07	0.42	ppb
Carbon Tetrachloride	<0.29	ppb	1.07	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.07	0.32	ppb
Benzene	<0.3	ppb	1.07	0.3	ppb
Trichloroethene	<0.32	ppb	1.07	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.07	0.19	ppb
Bromodichloromethane	<0.2	ppb	1.07	0.2	ppb
Dibromomethane	<0.57	ppb	1.07	0.57	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.07	0.27	ppb
Toluene	<0.35	ppb	1.07	0.35	ppb
t-1,3-Dichloropropene	<0.44	ppb	1.07	0.44	ppb
1,1,2-Trichloroethane	<0.52	ppb	1.07	0.52	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #9 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.5	ppb	1.07	0.5	ppb
Tetrachloroethene	8.3	ppb	1.07	0.3	ppb
Dibromochloromethane	<0.31	ppb	1.07	0.31	ppb
1,2-Dibromoethane	<0.54	ppb	1.07	0.54	ppb
Chlorobenzene	<0.31	ppb	1.07	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.34	ppb	1.07	0.34	ppb
Ethylbenzene	<0.36	ppb	1.07	0.36	ppb
m,p-xylene	1.2	ppb	1.07	0.67	ppb
o-xylene	<0.3	ppb	1.07	0.3	ppb
Styrene	<0.31	ppb	1.07	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.07	0.28	ppb
Bromoform	<0.51	ppb	1.07	0.51	ppb
1,1,2,2-Tetrachloroethane	<0.54	ppb	1.07	0.54	ppb
1,2,3-Trichloropropane	<0.49	ppb	1.07	0.49	ppb
n-Propylbenzene	<0.44	ppb	1.07	0.44	ppb
Bromobenzene	<0.47	ppb	1.07	0.47	ppb
1,3,5-Trimethylbenzene	<0.32	ppb	1.07	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.07	0.28	ppb
4-Chlorotoluene	<0.36	ppb	1.07	0.36	ppb
4-Isopropyltoluene	<0.39	ppb	1.07	0.39	ppb
1,2,4-Trimethylbenzene	<0.44	ppb	1.07	0.44	ppb
sec-Butylbenzene	<0.39	ppb	1.07	0.39	ppb
tert-Butylbenzene	<0.56	ppb	1.07	0.56	ppb
1,3-Dichlorobenzene	<0.34	ppb	1.07	0.34	ppb
1,4-Dichlorobenzene	<0.34	ppb	1.07	0.34	ppb
n-Butylbenzene	<0.42	ppb	1.07	0.42	ppb
1,2-Dichlorobenzene	<0.29	ppb	1.07	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #9 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.77**	ppb	1.07	0.77	ppb
1,2,4-Trichlorobenzene	**<0.44**	ppb	1.07	0.44	ppb
Hexachlorobutadiene	**<0.37**	ppb	1.07	0.37	ppb
Naphthalene	**<0.59**	ppb	1.07	0.59	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.07	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2
Custody: G6286
Collected: 04/13/98
Location: SS #8 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.76	ppb	1.18	0.76	ppb
Chloromethane	<0.4	ppb	1.18	0.4	ppb
Vinyl Chloride	<0.71	ppb	1.18	0.71	ppb
Bromomethane	<0.46	ppb	1.18	0.46	ppb
Chloroethane	<0.22	ppb	1.18	0.22	ppb
Trichlorofluoromethane	<0.13	ppb	1.18	0.13	ppb
1,1-Dichloroethene	<0.25	ppb	1.18	0.25	ppb
Methylene Chloride	<0.7	ppb	1.18	0.7	ppb
t-1,2-Dichloroethene	<0.48	ppb	1.18	0.48	ppb
1,1-Dichloroethane	<0.19	ppb	1.18	0.19	ppb
2,2-Dichloropropane	<0.27	ppb	1.18	0.27	ppb
c-1,2-Dichloroethene	<0.59	ppb	1.18	0.59	ppb
Chloroform	<0.2	ppb	1.18	0.2	ppb
Bromochloromethane	<0.29	ppb	1.18	0.29	ppb
1,1,1-Trichloroethane	<0.33	ppb	1.18	0.33	ppb
1,1-Dichloropropene	<0.46	ppb	1.18	0.46	ppb
Carbon Tetrachloride	<0.32	ppb	1.18	0.32	ppb
1,2-Dichloroethane	<0.35	ppb	1.18	0.35	ppb
Benzene	1.5	ppb	1.18	0.33	ppb
Trichloroethene	<0.35	ppb	1.18	0.35	ppb
1,2-Dichloropropane	<0.21	ppb	1.18	0.21	ppb
Bromodichloromethane	<0.22	ppb	1.18	0.22	ppb
Dibromomethane	<0.63	ppb	1.18	0.63	ppb
c-1,3-Dichloropropene	<0.29	ppb	1.18	0.29	ppb
Toluene	<0.39	ppb	1.18	0.39	ppb
t-1,3-Dichloropropene	<0.48	ppb	1.18	0.48	ppb
1,1,2-Trichloroethane	<0.58	ppb	1.18	0.58	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #8 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.55	ppb	1.18	0.55	ppb
Tetrachloroethene	<0.33	ppb	1.18	0.33	ppb
Dibromochloromethane	<0.34	ppb	1.18	0.34	ppb
1,2-Dibromoethane	<0.59	ppb	1.18	0.59	ppb
Chlorobenzene	<0.34	ppb	1.18	0.34	ppb
1,1,1,2-Tetrachloroethane	<0.38	ppb	1.18	0.38	ppb
Ethylbenzene	<0.4	ppb	1.18	0.4	ppb
m,p-xylene	2.1	ppb	1.18	0.74	ppb
o-xylene	<0.33	ppb	1.18	0.33	ppb
Styrene	<0.34	ppb	1.18	0.34	ppb
Isopropylbenzene	<0.31	ppb	1.18	0.31	ppb
Bromoform	<0.57	ppb	1.18	0.57	ppb
1,1,2,2-Tetrachloroethane	<0.59	ppb	1.18	0.59	ppb
1,2,3-Trichloropropane	<0.54	ppb	1.18	0.54	ppb
n-Propylbenzene	<0.48	ppb	1.18	0.48	ppb
Bromobenzene	<0.52	ppb	1.18	0.52	ppb
1,3,5-Trimethylbenzene	1.2	ppb	1.18	0.35	ppb
2-Chlorotoluene	<0.31	ppb	1.18	0.31	ppb
4-Chlorotoluene	<0.4	ppb	1.18	0.4	ppb
4-Isopropyltoluene	<0.42	ppb	1.18	0.42	ppb
1,2,4-Trimethylbenzene	1.6	ppb	1.18	0.48	ppb
sec-Butylbenzene	<0.42	ppb	1.18	0.42	ppb
tert-Butylbenzene	<0.61	ppb	1.18	0.61	ppb
1,3-Dichlorobenzene	<0.38	ppb	1.18	0.38	ppb
1,4-Dichlorobenzene	<0.38	ppb	1.18	0.38	ppb
n-Butylbenzene	<0.46	ppb	1.18	0.46	ppb
1,2-Dichlorobenzene	<0.32	ppb	1.18	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 2 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #8 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.85**	ppb	1.18	0.85	ppb
1,2,4-Trichlorobenzene	**<0.48**	ppb	1.18	0.48	ppb
Hexachlorobutadiene	**<0.41**	ppb	1.18	0.41	ppb
Naphthalene	**<0.65**	ppb	1.18	0.65	ppb
1,2,3-Trichlorobenzene	**<0.35**	ppb	1.18	0.35	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3
Custody: G6286
Collected: 04/13/98
Location: SS #10 (20'-22')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units	
Dichlorodifluoromethane	<120	ppb	141	120	ppb	
Chloromethane	<85	ppb	141	85	ppb	
Vinyl Chloride	<63	ppb	141	63	ppb	
Bromomethane	<93	ppb	141	93	ppb	
Chloroethane	<110	ppb	141	110	ppb	
Trichlorofluoromethane	<63	ppb	141	63	ppb	
1,1-Dichloroethene	<68	ppb	141	68	ppb	
Methylene Chloride	<42	ppb	141	42	ppb	
t-1,2-Dichloroethene	<39	ppb	141	39	ppb	
1,1-Dichloroethane	<25	ppb	141	25	ppb	
2,2-Dichloropropane	<58	ppb	141	58	ppb	
c-1,2-Dichloroethene	1080	ppb	141	48	ppb	
Chloroform	<37	ppb	141	37	ppb	
Bromochloromethane	<42	ppb	141	42	ppb	
1,1,1-Trichloroethane	<51	ppb	141	51	ppb	
1,1-Dichloropropene	<209	ppb	141	209	ppb	
Carbon Tetrachloride	<49	ppb	141	49	ppb	
1,2-Dichloroethane	<27	ppb	141	27	ppb	
Benzene	<61	ppb	141	61	ppb	
Trichloroethene	4750	ppb	141	38	ppb	B
1,2-Dichloropropane	<38	ppb	141	38	ppb	
Bromodichloromethane	<17	ppb	141	17	ppb	
Dibromomethane	<44	ppb	141	44	ppb	
c-1,3-Dichloropropene	<27	ppb	141	27	ppb	
Toluene	<65	ppb	141	65	ppb	
t-1,3-Dichloropropene	<30	ppb	141	30	ppb	
1,1,2-Trichloroethane	<52	ppb	141	52	ppb	

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #10 (20'-22')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<16	ppb	141	16	ppb
Tetrachloroethene	34800	ppb	1,414	410	ppb
Dibromochloromethane	<25	ppb	141	25	ppb
1,2-Dibromoethane	<20	ppb	141	20	ppb
Chlorobenzene	<31	ppb	141	31	ppb
1,1,1,2-Tetrachloroethane	<45	ppb	141	45	ppb
Ethylbenzene	<30	ppb	141	30	ppb
m,p-xylene	<63	ppb	141	63	ppb
o-xylene	<38	ppb	141	38	ppb
Styrene	<42	ppb	141	42	ppb
Isopropylbenzene	<30	ppb	141	30	ppb
Bromoform	<28	ppb	141	28	ppb
1,1,2,2-Tetrachloroethane	<20	ppb	141	20	ppb
1,2,3-Trichloropropane	<100	ppb	141	100	ppb
n-Propylbenzene	387	ppb	141	99	ppb
Bromobenzene	<27	ppb	141	27	ppb
1,3,5-Trimethylbenzene	728	ppb	141	169	ppb
2-Chlorotoluene	<38	ppb	141	38	ppb
4-Chlorotoluene	<20	ppb	141	20	ppb
4-Isopropyltoluene	1190	ppb	141	44	ppb
1,2,4-Trimethylbenzene	2830	ppb	141	465	ppb
sec-Butylbenzene	239	ppb	141	51	ppb
tert-Butylbenzene	<42	ppb	141	42	ppb
1,3-Dichlorobenzene	11600	ppb	141	16	ppb
1,4-Dichlorobenzene	7320	ppb	141	20	ppb
n-Butylbenzene	617	ppb	141	45	ppb
1,2-Dichlorobenzene	11400	ppb	141	27	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. *Soil sample based on dry weight basis;* Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 3 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #10 (20'-22')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<63**	ppb	141	63	ppb
1,2,4-Trichlorobenzene	**1750**	ppb	141	38	ppb
Hexachlorobutadiene	**882**	ppb	141	45	ppb
Naphthalene	**1390**	ppb	141	25	ppb
1,2,3-Trichlorobenzene	**643**	ppb	141	18	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6286
Collected: 04/13/98
Location: SS #10 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.68	ppb	1.07	0.68	ppb
Chloromethane	<0.36	ppb	1.07	0.36	ppb
Vinyl Chloride	<0.64	ppb	1.07	0.64	ppb
Bromomethane	<0.42	ppb	1.07	0.42	ppb
Chloroethane	<0.2	ppb	1.07	0.2	ppb
Trichlorofluoromethane	<0.12	ppb	1.07	0.12	ppb
1,1-Dichloroethene	<0.22	ppb	1.07	0.22	ppb
Methylene Chloride	<0.63	ppb	1.07	0.63	ppb
t-1,2-Dichloroethene	<0.44	ppb	1.07	0.44	ppb
1,1-Dichloroethane	<0.17	ppb	1.07	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.07	0.25	ppb
c-1,2-Dichloroethene	<0.54	ppb	1.07	0.54	ppb
Chloroform	<0.18	ppb	1.07	0.18	ppb
Bromochloromethane	<0.27	ppb	1.07	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.07	0.3	ppb
1,1-Dichloropropene	<0.42	ppb	1.07	0.42	ppb
Carbon Tetrachloride	<0.29	ppb	1.07	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.07	0.32	ppb
Benzene	<0.3	ppb	1.07	0.3	ppb
Trichloroethene	<0.32	ppb	1.07	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.07	0.19	ppb
Bromodichloromethane	<0.2	ppb	1.07	0.2	ppb
Dibromomethane	<0.57	ppb	1.07	0.57	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.07	0.27	ppb
Toluene	<0.35	ppb	1.07	0.35	ppb
t-1,3-Dichloropropene	<0.44	ppb	1.07	0.44	ppb
1,1,2-Trichloroethane	<0.52	ppb	1.07	0.52	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #10 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.5	ppb	1.07	0.5	ppb
Tetrachloroethene	4.8	ppb	1.07	0.3	ppb
Dibromochloromethane	<0.31	ppb	1.07	0.31	ppb
1,2-Dibromoethane	<0.54	ppb	1.07	0.54	ppb
Chlorobenzene	<0.31	ppb	1.07	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.34	ppb	1.07	0.34	ppb
Ethylbenzene	<0.36	ppb	1.07	0.36	ppb
m,p-xylene	<0.67	ppb	1.07	0.67	ppb
o-xylene	<0.3	ppb	1.07	0.3	ppb
Styrene	<0.31	ppb	1.07	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.07	0.28	ppb
Bromoform	<0.51	ppb	1.07	0.51	ppb
1,1,2,2-Tetrachloroethane	<0.54	ppb	1.07	0.54	ppb
1,2,3-Trichloropropane	<0.49	ppb	1.07	0.49	ppb
n-Propylbenzene	<0.44	ppb	1.07	0.44	ppb
Bromobenzene	<0.47	ppb	1.07	0.47	ppb
1,3,5-Trimethylbenzene	<0.32	ppb	1.07	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.07	0.28	ppb
4-Chlorotoluene	<0.36	ppb	1.07	0.36	ppb
4-Isopropyltoluene	<0.39	ppb	1.07	0.39	ppb
1,2,4-Trimethylbenzene	<0.44	ppb	1.07	0.44	ppb
sec-Butylbenzene	<0.39	ppb	1.07	0.39	ppb
tert-Butylbenzene	<0.56	ppb	1.07	0.56	ppb
1,3-Dichlorobenzene	2.3	ppb	1.07	0.34	ppb
1,4-Dichlorobenzene	<0.34	ppb	1.07	0.34	ppb
n-Butylbenzene	<0.42	ppb	1.07	0.42	ppb
1,2-Dichlorobenzene	2.7	ppb	1.07	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #10 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.77**	ppb	1.07	0.77	ppb
1,2,4-Trichlorobenzene	**<0.44**	ppb	1.07	0.44	ppb
Hexachlorobutadiene	**<0.37**	ppb	1.07	0.37	ppb
Naphthalene	**<0.59**	ppb	1.07	0.59	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.07	0.32	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5
Custody: G6286
Collected: 04/13/98
Location: SS #8 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
Dichlorodifluoromethane	<0.68	ppb	1.07	0.68	ppb
Chloromethane	<0.36	ppb	1.07	0.36	ppb
Vinyl Chloride	<0.64	ppb	1.07	0.64	ppb
Bromomethane	<0.42	ppb	1.07	0.42	ppb
Chloroethane	<0.2	ppb	1.07	0.2	ppb
Trichlorofluoromethane	<0.12	ppb	1.07	0.12	ppb
1,1-Dichloroethene	<0.22	ppb	1.07	0.22	ppb
Methylene Chloride	<0.63	ppb	1.07	0.63	ppb
t-1,2-Dichloroethene	<0.44	ppb	1.07	0.44	ppb
1,1-Dichloroethane	<0.17	ppb	1.07	0.17	ppb
2,2-Dichloropropane	<0.25	ppb	1.07	0.25	ppb
c-1,2-Dichloroethene	<0.54	ppb	1.07	0.54	ppb
Chloroform	<0.18	ppb	1.07	0.18	ppb
Bromochloromethane	<0.27	ppb	1.07	0.27	ppb
1,1,1-Trichloroethane	<0.3	ppb	1.07	0.3	ppb
1,1-Dichloropropene	<0.42	ppb	1.07	0.42	ppb
Carbon Tetrachloride	<0.29	ppb	1.07	0.29	ppb
1,2-Dichloroethane	<0.32	ppb	1.07	0.32	ppb
Benzene	<0.3	ppb	1.07	0.3	ppb
Trichloroethene	<0.32	ppb	1.07	0.32	ppb
1,2-Dichloropropane	<0.19	ppb	1.07	0.19	ppb
Bromodichloromethane	<0.2	ppb	1.07	0.2	ppb
Dibromomethane	<0.57	ppb	1.07	0.57	ppb
c-1,3-Dichloropropene	<0.27	ppb	1.07	0.27	ppb
Toluene	<0.35	ppb	1.07	0.35	ppb
t-1,3-Dichloropropene	<0.44	ppb	1.07	0.44	ppb
1,1,2-Trichloroethane	<0.52	ppb	1.07	0.52	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #8 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,3-Dichloropropane	<0.5	ppb	1.07	0.5	ppb
Tetrachloroethene	10.7	ppb	1.07	0.3	ppb
Dibromochloromethane	<0.31	ppb	1.07	0.31	ppb
1,2-Dibromoethane	<0.54	ppb	1.07	0.54	ppb
Chlorobenzene	<0.31	ppb	1.07	0.31	ppb
1,1,1,2-Tetrachloroethane	<0.34	ppb	1.07	0.34	ppb
Ethylbenzene	<0.36	ppb	1.07	0.36	ppb
m,p-xylene	1.1	ppb	1.07	0.67	ppb
o-xylene	<0.3	ppb	1.07	0.3	ppb
Styrene	<0.31	ppb	1.07	0.31	ppb
Isopropylbenzene	<0.28	ppb	1.07	0.28	ppb
Bromoform	<0.51	ppb	1.07	0.51	ppb
1,1,2,2-Tetrachloroethane	<0.54	ppb	1.07	0.54	ppb
1,2,3-Trichloropropane	<0.49	ppb	1.07	0.49	ppb
n-Propylbenzene	<0.44	ppb	1.07	0.44	ppb
Bromobenzene	<0.47	ppb	1.07	0.47	ppb
1,3,5-Trimethylbenzene	<0.32	ppb	1.07	0.32	ppb
2-Chlorotoluene	<0.28	ppb	1.07	0.28	ppb
4-Chlorotoluene	<0.36	ppb	1.07	0.36	ppb
4-Isopropyltoluene	<0.39	ppb	1.07	0.39	ppb
1,2,4-Trimethylbenzene	<0.44	ppb	1.07	0.44	ppb
sec-Butylbenzene	<0.39	ppb	1.07	0.39	ppb
tert-Butylbenzene	<0.56	ppb	1.07	0.56	ppb
1,3-Dichlorobenzene	1.1	ppb	1.07	0.34	ppb
1,4-Dichlorobenzene	<0.34	ppb	1.07	0.34	ppb
n-Butylbenzene	<0.42	ppb	1.07	0.42	ppb
1,2-Dichlorobenzene	1.2	ppb	1.07	0.29	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - EPA SW 846 8260

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 5 (continued)
Custody: G6286
Collected: 04/13/98
Location: SS #8 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
1,2-Dibromo-3-chloropropane	**<0.77**	ppb	1.07	0.77	ppb
1,2,4-Trichlorobenzene	**<0.44**	ppb	1.07	0.44	ppb
Hexachlorobutadiene	**<0.37**	ppb	1.07	0.37	ppb
Naphthalene	**<0.59**	ppb	1.07	0.59	ppb
1,2,3-Trichlorobenzene	**<0.32**	ppb	1.07	0.32	ppb

Reviewed by: Patricia Werner

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Ketones & Ethers (624/8260)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6286
Collected: 04/13/98
Location: SS #9 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	<0.72	ppb	1.07	0.72	ppb

Sample 2
Custody: G6286
Collected: 04/13/98
Location: SS #8 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	38.8	ppb	1.18	0.79	ppb

Sample 3
Custody: G6286
Collected: 04/13/98
Location: SS #10 (20'-22')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	468	ppb	141	406	ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Ketones & Ethers (624/8260)

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6286
Collected: 04/13/98
Location: SS #10 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	**8.8**	ppb	1.07	0.72	ppb

Sample 5
Custody: G6286
Collected: 04/13/98
Location: SS #8 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/22/98
Remarks: See Case Narrative

Analyte	Concentration	Units	Dilution	MDL	Units
MTBE	**6.4**	ppb	1.07	0.72	ppb

Reviewed by: Patricia Werner

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Total Solids

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 1
Custody: G6286
Collected: 04/13/98
Location: SS #9 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/15/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**93.6**	%	1		%

Sample 2
Custody: G6286
Collected: 04/13/98
Location: SS #8 (2'-4')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/15/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**85.1**	%	1		%

Sample 3
Custody: G6286
Collected: 04/13/98
Location: SS #10 (20'-22')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/15/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**88.4**	%	1		%

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - Total Solids

04/27/98

Project

218 Lakeville Rd
Lake Success, NY
Manager: Jeff Bohlen

Custody Document G6286
Received: 04/13/98 5:10 PM
Sampled by: Jeff Bohlen
Job Number:

Sample 4
Custody: G6286
Collected: 04/13/98
Location: SS #10 (28'-30')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/15/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**93.7**	%	1		%

Sample 5
Custody: G6286
Collected: 04/13/98
Location: SS #8 (30'-32')
Remarks:

Type: Split Spoon
Matrix: Soil

Analysis Information
Analyzed: 04/15/98
Remarks:

Analyte	Concentration	Units	Dilution	MDL	Units
% Solids	**93.7**	%	1		%

Reviewed by: Patricia Werner

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

ETL
Environmental Testing Laboratories, Inc.

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208 Route 109 • Farmingdale • New York 11735

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SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 6286

Project Name: [illegible] Project Manager: [illegible]

Project Address: [illegible]

Bill to: Arcon Env. J/N: 95085 ☐ Rush by / /

Sampler (Signature): [illegible] (Print): [illegible]

SAMPLE INFO — **Type:** SS = Split Spoon; G = Grab; C = Composite; B = Blank. **Matrix:** L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe. * Air - Vol. (Liters) include : Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	601/8010	602/8020	BTX/BTEX	MTBE	624/8240/8260	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1 - TRPH
1			SS	S	SS #9 (28' 30')				X										
2	↓		↓	↓	SS #8 (2' 4')				↓										
3					SS #10 (20' 22')														
4					SS #10 (28' 30')														
5	↓		↓	↓	SS #5 (30' 32')				↓										
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

Relinquished by (Signature): [illegible]	Date 9/13/98 Time	Printed Name & Agent: [illegible]	Received by (Signature):	Date Time	Printed Name & Agent:
Relinquished by (Signature): [illegible]	Date 9/13/98 Time 5:10 PM	Printed Name & Agent: J. TEGINS (AEL)	Comments & Special Instructions:		Disposal Facility:
Received for Lab by (Signature): [illegible]	Date 9/13/98 Time 5:10 PM	Printed Name: [illegible]	Number & Type of Containers: 5-8oz, 3-4oz, 2-2oz (5°C)		Preservatives:

9/14/98

Soil Sampling Data Sheets

LABORATORY WORKSHEET:

Nassau County Department of Health

Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 Routine
2 Resample
3 Special
4 Complaint
5 Other

Lab No. -R-98-00554

Field No. Soil Boring SS#

Well No.

NYS Well Number

Source Information (Please Print)

Premise: Imperial Cleaners

Address: 218 Lakeville Road

Town: Lake Success

Collection Point: Soil Boring SS#1

[redacted] 20 Feet Deep

	Month	Day	Year
Date Collected	4	8	98
Date Received	APR	08	[redacted]
Date Reported	APR	14	[redacted]
Collection Time	2:15		
Collected By	RW		

Sampler's Comments:

Brown/tan/[redacted] medium sand with a trace of gravel

HNu =

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water —	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00554
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Soil Boring S S # 1 At 20 Feet Deep
Date Sampled: 04/08/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - ng/l WATER - ug/l SOIL - ng/g

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00554
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Soil Boring S S # 1 At 20 Feet Deep
Date Sampled: 04/08/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

(X) Sample is in an Eco Test Labs Jar (Sorry)

1 [ ] Routine
2 [ ] Resample
3 [ ] Special
4 [ ] Complaint
5 [ ] Other

Lab No. TR-98-00557

D

Field No. SOIL BORING #2 (SS#2)

Well No.

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point: SOIL BORING #2
30-32 Feet Deep

	Month	Day	Year
Date Collected	4	8	98
Date Received			
Date Reported			

Collection Time: 10:45 A.M.
Collected By: RW

Sampler's Comments:

Tan/Brown/grey medium sand with trace of gravel
HNU = 100

TRIP BLANK CHECK HERE [ ] FIELD BLANK CHECK HERE [ ]

1 [ ] Environmental Management
2 [ ] Water Protection
4 [ ] Environmental Sanitation
6 [ ] Department of Public Works
7 [ ] Sagamore Hill National Historic Site
9 [X] Other (specify) Environmental Engineering

SAMPLE TYPE

	AQUEOUS				NON-AQUEOUS
	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(1) Volatile Organic Compounds (VOC's)
Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00557
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Soil Boring # 2 30-32 Feet Deep
Date Sampled: 04/08/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - ng/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health

Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00556 D

Field No. Soil Boring #2 (SS#

Well No.

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL CLEANERS

Address: 218 LAKEVILLE ROAD

Town: LAKE SUCCESS

Collection Point: SOIL BORING #2

24-26 Feet Deep

	Month	Day	Year
Date Collected	4	8	98
Date Received		08	1998
Date Reported		12	1998
Collection Time	9:55 a.m.		
Collected By	RW		

Sampler's Comments:

SS #2 24-26 feet deep

HNu = 0.0

Brown/tan/grey Medium sand with trace of gravel

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00555
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Soil Boring # 2 24-26 Feet Deep
Date Sampled: 04/02/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00555

Field No. Boring inside Dupont = 2

Well No.

NYS Well Number

Source information (Please Print)

Premise: Imperial Cleaners
Address: 218 Lakeville Road
Town: Lake Success
Collection Point: Boring inside DW #2 24-26 Feet Deep

	Month	Day	Year
Date Collected	4	8	98
Date Received	APRIL		1998
Date Reported	APR	14	1998
Collection Time	12:50 p.m.		
Collected By	RW		

Sampler's Comments:

HNU = 0.0

Brown/tan/grey medium sand with a trace of gravel.

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00555
Premise: Imperial Cleaners - 218 Lakeville Road Lake Success
Matrix: Soil
Site/Source: Boring Inside D W # 2 24-26 Feet Deep
Date Sampled: 04/08/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m,p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1,3,5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1,2,4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1,2,4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1,2,3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether		
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab # TR-98-00559

Field No.

Well No. Boring in Drywell #2

NYS Well Number

Source Information (Please Print)

Premise: IMPERIAL CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point: Boring inside DW #2 18-20 Feet Deep

Date Collected: Month 4 Day 8
Date Received: APR
Date Reported: APR
Collection Time: 12:4
Collected By: RW

Sampler's Comments:

HNU = .1

at the botton of the drywell #2 first 2 feet of the boring.

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Mana
2 ☐ Water Protection
4 ☐ Environmental Sanita
6 ☐ Department of Public
7 ☐ Sagamore Hill Nation
9 ☒ Other (specify) Er Engineerin

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil Drywell Sec
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00553
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Boring Inside D W # 2 18-20 Feet Deep
Date Sampled: 04/08/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	250			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00538

Field No. Soil Boring SS #4

Well No.

NYS Well Number

Source information (Please Print)

Premise IMPERIAL CLEANERS
Address 218 LAKEVILLE ROAD
Town LAKE SUCCESS
Collection Point SOIL BORING
SS#4 26-28 Feet Deep

	Month	Day	Year
Date Collected	4	6	98
Date Received			
Date Reported			
Collection Time	2:30 p.m.		
Collected By	RW		

Sampler's Comments:

Dark Brown/grey medium/fine sand with a trace of gravel

HNu reading = 384

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00538
Premise: **Imperial Cleaners** - 218 Lakeville Road, Lake Success
Matrix: **Soil**
Site/Source: Soil Boring 25-28 Feet Deep
Date Sampled: 04/06/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	13000			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 Routine
2 Resample
3 Special
4 Complaint
5 Other

Lab No. [illegible]-00539 D

Field No. Soil Boring SS #7 INSIDE Drywell #1

Well No.

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point: SOIL BORING SS #7 22-24 Feet Deep

	Month	Day	Year
Date Collected	4	6	98
Date Received	[illegible]		
Date Reported	[illegible]		
Collection Time	4:00		
Collected By	RW		

Sampler's Comments:
Inside Drywell #1
Dark Brown/grey medium fine sand with a trace of gravel.
Perc odor noted. HNU = 1548

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 Environmental Management
2 Water Protection
4 Environmental Sanitation
6 Department of Public Works
7 Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water —	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00539
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Soil Boring 22-24 Feet Deep
Date Sampled: 04/06/98
Date of Report: 04/23/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	5000	<5000	Benzene	5000	<5000
Chloromethane	5000	<5000	Toluene	5000	<5000
Vinyl Chloride	5000	<5000	Chlorobenzene	5000	<5000
Bromomethane	5000	<5000	Ethylbenzene	5000	<5000
Chloroethane	5000	<5000	m/p-Xylene	5000	<5000
Trichlorofluoromethane	5000	<5000	o-Xylene	5000	<5000
1,1-Dichloroethylene	5000	<5000	Styrene	5000	<5000
Methylene Chloride	5000	<5000	Isopropylbenzene	5000	<5000
t-1,2-Dichloroethylene	5000	<5000	n-Propylbenzene	5000	<5000
1,1-Dichloroethane	5000	<5000	Bromobenzene	5000	<5000
2,2-Dichloropropane	5000	<5000	1/3/5-Trimethylbenzene	5000	<5000
c-1,2-Dichloroethylene	5000	<5000	2-Chlorotoluene	5000	<5000
Chloroform	5000	<5000	4-Chlorotoluene	5000	<5000
Bromochloromethane	5000	<5000	t-Butylbenzene	5000	<5000
1,1,1-Trichloroethane	5000	<5000	1/2/4-Trimethylbenzene	5000	<5000
1,1-Dichloropropene	5000	<5000	s-Butylbenzene	5000	<5000
Carbon Tetrachloride	5000	<5000	p-Isopropyltoluene	5000	<5000
1,2-Dichloroethane	5000	<5000	m-Dichlorobenzene	5000	<5000
Trichloroethylene	5000	<5000	p-Dichlorobenzene	5000	<5000
1,2-Dichloropropane	5000	<5000	n-Butylbenzene	5000	<5000
Bromodichloromethane	5000	<5000	o-Dichlorobenzene	5000	6100
Dibromomethane	5000	<5000	1/2/4-Trichlorobenzene	5000	<5000
c-1,3-Dichloropropene	5000	<5000	Hexachlorobutadiene	5000	<5000
t-1,3-Dichloropropene	5000	<5000	Naphthalene	5000	<5000
1,1,2-Trichloroethane	5000	<5000	1/2/3-Trichlorobenzene	5000	<5000
1,3-Dichloropropane	5000	<5000	Methyl-t-Butyl Ether	5000	<5000
Tetrachloroethylene	5000	1600000			
Dibromochloromethane	5000	<5000			
1,2-Dibromoethane	5000	<5000			
1,1,1,2-Tetrachloroethane	5000	<5000			
Bromoform	5000	<5000			
1,1,2,2-Tetrachloroethane	5000	<5000			
1,2,3-Trichloropropane	5000	<5000			
1,2-Dibromo-3-Chloropropane	5000	<5000			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

2/A 5/6/98
→ RW

Lab No. TR-98-00588

D

Field No. SS #10
Leaching pool #2
Through center

Well No.

NYS Well Number

Source Information (Please Print)

Premise IMPERIAL CLEANERS
Address 218 LAKEVILLE ROAD
Town LAKE SUCCESS
Collection Point THROUGH CENTER OF LEACHING POOL #2

	Month	Day	Year
Date Collected	4	13	98
Date Received	4	13	98
Date Reported	[illegible]	[illegible]	[illegible]
Collection Time	12:50 p.m.		
Collected By	RW		

Sampler's Comments: 20-22 Feet Deep
TAN/BROWN/GRAY SAND
HNU = 580

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(1)	Volatile Organic Compounds (VOC's)
	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00588
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Center Leaching Pool No. 2, 20-22 Feet
Date Sampled: 04/13/98
Date of Report: 05/04/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	360
c-1,2-Dichloroethylene	200	910	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	990
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	390
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	5300
Trichloroethylene	200	1700	p-Dichlorobenzene	200	2600
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	4000
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	810
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	650
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	350
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	6200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - ng/l WATER - ug/l SOIL - ng/g

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00528
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Center Leaching Pool No. 2, 20-22 Feet
Date Sampled: 04/13/98
Date of Report: 05/04/98

TENTATIVELY IDENTIFIED COMPOUNDS

	APPROX. CONC. (ng/g)
Octane, 2,6-dimethyl-	1300
Decane	1600
Undecane	2800
Undecane, 3-methyl-	470
Dodecane	2600
1-Octanol,2-butyl-	630
Benzene, 1,2,3-trimethyl-	660
Naphthalene, decahydro-2-methyl-	760
Naphthalene, decahydro-1,6-dimeth	400
trans-anti-1-Methyl-Decahydronaph	750

Other unidentified hydrocarbon and aromatic compounds present.

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00589

Field No. SS#10 through center of Leaching pool #2

Well No. 0

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point: LEACHING POOL #2
28-30 Feet Deep

	Month	Day	Year
Date Collected	4	13	98
Date Received	4	13	98
Date Reported	[illegible]		
Collection Time	1:40 PM.		
Collected By	RW		

Sampler's Comments:

Brown / Gray Sand

HNu = 27.1

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00583
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Soil
Site/Source: Center Leaching Pool No. 2, 28-30 Feet
Date Sampled: 04/13/98
Date of Report: 04/16/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00590 D

Field No. SS #10
Through center of Leaching Pool #2

Well No. 0

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point: LEAKING POOL #2
30-32 Feet Deep

	Month	Day	Year
Date Collected	4	13	98
Date Received	4	13	98
Date Reported	APR	15	1998
Collection Time	1:55		
Collected By	RW		

Sampler's Comments:

Tan / Brown sand
HNU = 1.0

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(11)	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(1)	Volatile Organic Compounds (VOC's)
3	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

ion Number: TR-98-00590
e: Imperial Cleaners - 218 Lakeville Road, Lake Success
mple: Soil
Site/Source: Center Leaching Pool No. 2, 30-32 Feet
Date Sampled: 04/13/98
Date of Report: 04/16/98

VOLATILE ORGANIC ANALYSIS

	MRC (ng/g)	RESULT (ng/g)		MRC (ng/g)	RESULT (ng/g)
Dichlorodifluoromethane	200	<200	Benzene	200	<200
Chloromethane	200	<200	Toluene	200	<200
Vinyl Chloride	200	<200	Chlorobenzene	200	<200
Bromomethane	200	<200	Ethylbenzene	200	<200
Chloroethane	200	<200	m/p-Xylene	200	<200
Trichlorofluoromethane	200	<200	o-Xylene	200	<200
1,1-Dichloroethylene	200	<200	Styrene	200	<200
Methylene Chloride	200	<200	Isopropylbenzene	200	<200
t-1,2-Dichloroethylene	200	<200	n-Propylbenzene	200	<200
1,1-Dichloroethane	200	<200	Bromobenzene	200	<200
2,2-Dichloropropane	200	<200	1/3/5-Trimethylbenzene	200	<200
c-1,2-Dichloroethylene	200	<200	2-Chlorotoluene	200	<200
Chloroform	200	<200	4-Chlorotoluene	200	<200
Bromochloromethane	200	<200	t-Butylbenzene	200	<200
1,1,1-Trichloroethane	200	<200	1/2/4-Trimethylbenzene	200	<200
1,1-Dichloropropene	200	<200	s-Butylbenzene	200	<200
Carbon Tetrachloride	200	<200	p-Isopropyltoluene	200	<200
1,2-Dichloroethane	200	<200	m-Dichlorobenzene	200	<200
Trichloroethylene	200	<200	p-Dichlorobenzene	200	<200
1,2-Dichloropropane	200	<200	n-Butylbenzene	200	<200
Bromodichloromethane	200	<200	o-Dichlorobenzene	200	<200
Dibromomethane	200	<200	1/2/4-Trichlorobenzene	200	<200
c-1,3-Dichloropropene	200	<200	Hexachlorobutadiene	200	<200
t-1,3-Dichloropropene	200	<200	Naphthalene	200	<200
1,1,2-Trichloroethane	200	<200	1/2/3-Trichlorobenzene	200	<200
1,3-Dichloropropane	200	<200	Methyl-t-Butyl Ether	200	<200
Tetrachloroethylene	200	<200			
Dibromochloromethane	200	<200			
1,2-Dibromoethane	200	<200			
1,1,1,2-Tetrachloroethane	200	<200			
Bromoform	200	<200			
1,1,2,2-Tetrachloroethane	200	<200			
1,2,3-Trichloropropane	200	<200			
1,2-Dibromo-3-Chloropropane	200	<200			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - ng/l WATER - ug/l SOIL - ng/g

Perched Water Data Sheets

LABORATORY WORKSHEET

Nassau County Department of Health

Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00525 D

Field No.

Well No. 1

NYS Well Number

Source information (Please Print)

Premise: IMPERIAL DRY CLEANERS

Address: 218 LAKEVILLE ROAD

Town: LAKE SUCCESS

Collection Point:

	Month	Day	Year
Date Collected	4	3	98
Date Received	APR 13 1998		
Date Reported	APR 14 1998		
Collection Time	3:00 P.M.		
Collected By	Robert Weitzman		

Sampler's Comments:

Monitoring well #1

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	11	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
(4)	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00526
Premise: **Imperial Dry Cleaners** - 218 Lakeville Road, Lake Success
Matrix: **Monitoring Well**
Site/Source: **Monitoring Well 1**
Date Sampled: **04/03/98**
Date of Report: **04/14/98**

VOLATILE ORGANIC ANALYSIS

	MRC (ug/l)	RESULT (ug/l)		MRC (ug/l)	RESULT (ug/l)
Dichlorodifluoromethane	0.5	<0.5	Benzene	0.5	<0.5
Chloromethane	0.5	<0.5	Toluene	0.5	<0.5
Vinyl Chloride	0.5	<0.5	Chlorobenzene	0.5	<0.5
Bromomethane	0.5	<0.5	Ethylbenzene	0.5	<0.5
Chloroethane	0.5	<0.5	m/p-Xylene	0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	o-Xylene	0.5	<0.5
1,1-Dichloroethylene	0.5	<0.5	Styrene	0.5	<0.5
Methylene Chloride	0.5	<0.5	Isopropylbenzene	0.5	<0.5
t-1,2-Dichloroethylene	0.5	<0.5	n-Propylbenzene	0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	Bromobenzene	0.5	<0.5
2,2-Dichloropropane	0.5	<0.5	1/3/5-Trimethylbenzene	0.5	<0.5
c-1,2-Dichloroethylene	0.5	8	2-Chlorotoluene	0.5	<0.5
Chloroform	0.5	<0.5	4-Chlorotoluene	0.5	<0.5
Bromochloromethane	0.5	<0.5	t-Butylbenzene	0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	1/2/4-Trimethylbenzene	0.5	<0.5
1,1-Dichloropropene	0.5	<0.5	s-Butylbenzene	0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	p-Isopropyltoluene	0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	m-Dichlorobenzene	0.5	<0.5
Trichloroethylene	0.5	3	p-Dichlorobenzene	0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	n-Butylbenzene	0.5	<0.5
Bromodichloromethane	0.5	<0.5	o-Dichlorobenzene	0.5	<0.5
Dibromomethane	0.5	<0.5	1/2/4-Trichlorobenzene	0.5	<0.5
c-1,3-Dichloropropene	0.5	<0.5	Hexachlorobutadiene	0.5	<0.5
t-1,3-Dichloropropene	0.5	<0.5	Naphthalene	0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	1/2/3-Trichlorobenzene	0.5	<0.5
1,3-Dichloropropane	0.5	<0.5	Methyl-t-Butyl Ether	0.5	3
Tetrachloroethylene	0.5	140			
Dibromochloromethane	0.5	<0.5			
1,2-Dibromoethane	0.5	<0.5			
1,1,1,2-Tetrachloroethane	0.5	<0.5			
Bromoform	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
1,2,3-Trichloropropane	0.5	<0.5			
1,2-Dibromo-3-Chloropropane	0.5	<0.5			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

! 1 [ ] Routine
2 [ ] Resample
3 [ ] Special
4 [ ] Complaint
5 [ ] Other

Lab No. TR-98-00527 D

Field No.

Well No. 2

NYS Well Number

Source Information (Please Print)

Premise IMPERIAL DRY CLEANERS
Address 218 LAKEVILLE ROAD
Town LAKE SUCCESS
Collection Point

	Month	Day	Year
Date Collected	4	3	98
Date Received	[illegible]	[illegible]	[illegible]
Date Reported	[illegible]	[illegible]	[illegible]
Collection Time	3:10 PM		
Collected By	RW		

Sampler's Comments:

Monitoring Well #2

TRIP BLANK CHECK HERE [ ] FIELD BLANK CHECK HERE [ ]

1 [ ] Environmental Management
2 [ ] Water Protection
4 [ ] Environmental Sanitation
6 [ ] Department of Public Works
7 [ ] Sagamore Hill National Historic Site
9 [X] Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	11	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
(4)	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-93-00527
Premise: Imperial Dry Cleaners - 213 Lakeville Road, Lake Success
Matrix: Monitoring Well
Site/Source: Monitoring Well 2
Date Sampled: 04/03/93
Date of Report: 04/08/93

VOLATILE ORGANIC ANALYSIS

	MRC (ug/l)	RESULT (ug/l)		MRC (ug/l)	RESULT (ug/l)
Dichlorodifluoromethane	0.5	<0.5	Benzene	0.5	<0.5
Chloromethane	0.5	<0.5	Toluene	0.5	<0.5
Vinyl Chloride	0.5	<0.5	Chlorobenzene	0.5	<0.5
Bromomethane	0.5	<0.5	Ethylbenzene	0.5	<0.5
Chloroethane	0.5	<0.5	m/p-Xylene	0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	o-Xylene	0.5	<0.5
1,1-Dichloroethylene	0.5	<0.5	Styrene	0.5	<0.5
Methylene Chloride	0.5	<0.5	Isopropylbenzene	0.5	<0.5
t-1,2-Dichloroethylene	0.5	<0.5	n-Propylbenzene	0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	Bromobenzene	0.5	<0.5
2,2-Dichloropropane	0.5	<0.5	1/3/5-Trimethylbenzene	0.5	<0.5
c-1,2-Dichloroethylene	0.5	<0.5	2-Chlorotoluene	0.5	<0.5
Chloroform	0.5	<0.5	4-Chlorotoluene	0.5	<0.5
Bromochloromethane	0.5	<0.5	t-Butylbenzene	0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	1/2/4-Trimethylbenzene	0.5	<0.5
1,1-Dichloropropene	0.5	<0.5	s-Butylbenzene	0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	p-Isopropyltoluene	0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	m-Dichlorobenzene	0.5	<0.5
Trichloroethylene	0.5	<0.5	p-Dichlorobenzene	0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	n-Butylbenzene	0.5	<0.5
Bromodichloromethane	0.5	<0.5	o-Dichlorobenzene	0.5	<0.5
Dibromomethane	0.5	<0.5	1/2/4-Trichlorobenzene	0.5	<0.5
c-1,3-Dichloropropene	0.5	<0.5	Hexachlorobutadiene	0.5	<0.5
t-1,3-Dichloropropene	0.5	<0.5	Naphthalene	0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	1/2/3-Trichlorobenzene	0.5	<0.5
1,3-Dichloropropane	0.5	<0.5	Methyl-t-Butyl Ether	0.5	<0.5
Tetrachloroethylene	0.5	2			
Dibromochloromethane	0.5	<0.5			
1,2-Dibromoethane	0.5	<0.5			
1,1,1,2-Tetrachloroethane	0.5	<0.5			
Bromoform	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
1,2,3-Trichloropropane	0.5	<0.5			
1,2-Dibromo-3-Chloropropane	0.5	<0.5			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00528

Field No. mA → RW 5/1/98

Well No. 3

NYS Well Number

Source Information (Please Print)

Premise IMPERIAL DRY CLEANERS
Address 218 LAKEVILLE ROAD
Town LAKE SUCCESS
Collection Point

	Month	Day	Year
Date Collected	4	3	98
Date Received	APR	03	1998
Date Reported	[redacted]		
Collection Time	3:25		
Collected By	RW		

Sampler's Comments:

Monitoring Well #3

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	11	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
(4)	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00525
Premise: Imperial Dry Cleaners - 218 Lakeville Road, Lake Success
Matrix: Monitoring Well
Site/Source: Monitoring Well 3
Date Sampled: 04/03/98
Date of Report: 04/24/98

VOLATILE ORGANIC ANALYSIS

	MRC (ug/l)	RESULT (ug/l)		MRC (ug/l)	RESULT (ug/l)
Dichlorodifluoromethane	0.5	<0.5	Benzene	0.5	<0.5
Chloromethane	0.5	<0.5	Toluene	0.5	<0.5
Vinyl Chloride	0.5	<0.5	Chlorobenzene	0.5	<0.5
Bromomethane	0.5	<0.5	Ethylbenzene	0.5	<0.5
Chloroethane	0.5	<0.5	m/p-Xylene	0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	o-Xylene	0.5	<0.5
1,1-Dichloroethylene	0.5	<0.5	Styrene	0.5	<0.5
Methylene Chloride	0.5	<0.5	Isopropylbenzene	0.5	<0.5
t-1,2-Dichloroethylene	0.5	<0.5	n-Propylbenzene	0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	Bromobenzene	0.5	<0.5
2,2-Dichloropropane	0.5	<0.5	1/3/5-Trimethylbenzene	0.5	<0.5
c-1,2-Dichloroethylene	0.5	<0.5	2-Chlorotoluene	0.5	<0.5
Chloroform	0.5	<0.5	4-Chlorotoluene	0.5	<0.5
Bromochloromethane	0.5	<0.5	t-Butylbenzene	0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	1/2/4-Trimethylbenzene	0.5	<0.5
1,1-Dichloropropene	0.5	<0.5	s-Butylbenzene	0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	p-Isopropyltoluene	0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	m-Dichlorobenzene	0.5	<0.5
Trichloroethylene	0.5	<0.5	p-Dichlorobenzene	0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	n-Butylbenzene	0.5	<0.5
Bromodichloromethane	0.5	<0.5	o-Dichlorobenzene	0.5	<0.5
Dibromomethane	0.5	<0.5	1/2/4-Trichlorobenzene	0.5	<0.5
c-1,3-Dichloropropene	0.5	<0.5	Hexachlorobutadiene	0.5	<0.5
t-1,3-Dichloropropene	0.5	<0.5	Naphthalene	0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	1/2/3-Trichlorobenzene	0.5	<0.5
1,3-Dichloropropane	0.5	<0.5	Methyl-t-Butyl Ether	0.5	2
Tetrachloroethylene	0.5	23			
Dibromochloromethane	0.5	<0.5			
1,2-Dibromoethane	0.5	<0.5			
1,1,1,2-Tetrachloroethane	0.5	<0.5			
Bromoform	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
1,2,3-Trichloropropane	0.5	<0.5			
1,2-Dibromo-3-Chloropropane	0.5	<0.5			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

LABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab No. TR-98-00542

Field No.

Well No. Monitoring Well #4 Groundwater

NYS Well Number

Source Information (Please Print)

Premise: Imperial Cleaners
Address: 218 Lakeville Road
Town: Lake Success
Collection Point: monitoring well #4

	Month	Day	Year
Date Collected	4	7	98
Date Received	4	7	98
Date Reported	APR	15	[illegible]
Collection Time	3:00 pm		
Collected By	RW		

Sampler's Comments:

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1 ☐ Environmental Management
2 ☐ Water Protection
4 ☐ Environmental Sanitation
6 ☐ Department of Public Works
7 ☐ Sagamore Hill National Historic Site
9 ☒ Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	11	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
(4)	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(A)	Volatile Organic Compounds (VOC's)
B	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00542
Premise: Imperial Cleaners - 218 Lakeville Road, Lake Success
Matrix: Monitoring Well
Site/Source: Monitoring Well No. 4
Date Sampled: 04/07/98
Date of Report: 04/15/98

VOLATILE ORGANIC ANALYSIS

	MRC (ug/l)	RESULT (ug/l)		MRC (ug/l)	RESULT (ug/l)
Dichlorodifluoromethane	0.5	1	Benzene	0.5	0.5
Chloromethane	0.5	<0.5	Toluene	0.5	<0.5
Vinyl Chloride	0.5	<0.5	Chlorobenzene	0.5	<0.5
Bromomethane	0.5	<0.5	Ethylbenzene	0.5	<0.5
Chloroethane	0.5	<0.5	m/p-Xylene	0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	o-Xylene	0.5	<0.5
1,1-Dichloroethylene	0.5	<0.5	Styrene	0.5	<0.5
Methylene Chloride	0.5	<0.5	Isopropylbenzene	0.5	<0.5
t-1,2-Dichloroethylene	0.5	<0.5	n-Propylbenzene	0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	Bromobenzene	0.5	<0.5
2,2-Dichloropropane	0.5	<0.5	1/3/5-Trimethylbenzene	0.5	<0.5
c-1,2-Dichloroethylene	0.5	<0.5	2-Chlorotoluene	0.5	<0.5
Chloroform	0.5	<0.5	4-Chlorotoluene	0.5	<0.5
Bromochloromethane	0.5	<0.5	t-Butylbenzene	0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	1/2/4-Trimethylbenzene	0.5	<0.5
1,1-Dichloropropene	0.5	<0.5	s-Butylbenzene	0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	p-Isopropyltoluene	0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	m-Dichlorobenzene	0.5	<0.5
Trichloroethylene	0.5	1	p-Dichlorobenzene	0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	n-Butylbenzene	0.5	<0.5
Bromodichloromethane	0.5	<0.5	o-Dichlorobenzene	0.5	<0.5
Dibromomethane	0.5	<0.5	1/2/4-Trichlorobenzene	0.5	<0.5
c-1,3-Dichloropropene	0.5	<0.5	Hexachlorobutadiene	0.5	<0.5
t-1,3-Dichloropropene	0.5	<0.5	Naphthalene	0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	1/2/3-Trichlorobenzene	0.5	<0.5
1,3-Dichloropropane	0.5	<0.5	Methyl-t-Butyl Ether	0.5	1
Tetrachloroethylene	0.5	99			
Dibromochloromethane	0.5	<0.5			
1,2-Dibromoethane	0.5	<0.5			
1,1,1,2-Tetrachloroethane	0.5	<0.5			
Bromoform	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
1,2,3-Trichloropropane	0.5	<0.5			
1,2-Dibromo-3-Chloropropane	0.5	<0.5			

Comments: Chlorodifluoromethane tentatively identified at approximately 14ug/l.

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

ABORATORY WORKSHEET

Nassau County Department of Health
Division of Public Health Laboratories

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

1	Routine
2	Resample
3	Special
4	Complaint
5	Other

LCD No. TR-98-00529

Field No.

Well No. 5

NYS Well Number

Source Information (Please Print)

Premise: IMPERIAL DRY CLEANERS
Address: 218 LAKEVILLE ROAD
Town: LAKE SUCCESS
Collection Point:

	Month	Day	Year
Date Collected	4	3	98
Date Received	APR		
Date Reported	APR 1		
Collection Time	3:15		
Collected By	RW		

Sampler's Comments:

Monitoring Well #5

TRIP BLANK CHECK HERE ☐ FIELD BLANK CHECK HERE ☐

1	Environmental Management
2	Water Protection
4	Environmental Sanitation
6	Department of Public Works
7	Sagamore Hill National Historic Site
9 ☒	Other (specify) Environmental Engineering

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	11	Soil
2	Non-Community Well	7	Waste Water	12	Sludge
3	Private Well	8	Industrial Effluent	13	Waste Solvent
(4)	Monitoring Well	9	Raw Supply Water	14	Oil
16	Bottled Water	10	Distribution Water	15	Other (specify)

ANALYSIS TYPE

(2)	Volatile Organic Compounds (VOC's)
3	Other (specify)

Examiner's comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Accession Number: TR-98-00529
Premise: Imperial Dry Cleaners - 218 Lakeville Road, Lake Success
Matrix: Monitoring Well
Site/Source: Monitoring Well 5
Date Sampled: 04/03/98
Date of Report: 04/14/98

VOLATILE ORGANIC ANALYSIS

	MRC (ug/l)	RESULT (ug/l)		MRC (ug/l)	RESULT (ug/l)
Dichlorodifluoromethane	0.5	<0.5	Benzene	0.5	<0.5
Chloromethane	0.5	<0.5	Toluene	0.5	<0.5
Vinyl Chloride	0.5	<0.5	Chlorobenzene	0.5	<0.5
Bromomethane	0.5	<0.5	Ethylbenzene	0.5	<0.5
Chloroethane	0.5	<0.5	m/p-Xylene	0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	o-Xylene	0.5	<0.5
1,1-Dichloroethylene	0.5	<0.5	Styrene	0.5	<0.5
Methylene Chloride	0.5	<0.5	Isopropylbenzene	0.5	<0.5
t-1,2-Dichloroethylene	0.5	<0.5	n-Propylbenzene	0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	Bromobenzene	0.5	<0.5
2,2-Dichloropropane	0.5	<0.5	1/3/5-Trimethylbenzene	0.5	<0.5
c-1,2-Dichloroethylene	0.5	<0.5	2-Chlorotoluene	0.5	<0.5
Chloroform	0.5	<0.5	4-Chlorotoluene	0.5	<0.5
Bromochloromethane	0.5	<0.5	t-Butylbenzene	0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	1/2/4-Trimethylbenzene	0.5	<0.5
1,1-Dichloropropene	0.5	<0.5	s-Butylbenzene	0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	p-Isopropyltoluene	0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	m-Dichlorobenzene	0.5	<0.5
Trichloroethylene	0.5	<0.5	p-Dichlorobenzene	0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	n-Butylbenzene	0.5	<0.5
Bromodichloromethane	0.5	<0.5	o-Dichlorobenzene	0.5	<0.5
Dibromomethane	0.5	<0.5	1/2/4-Trichlorobenzene	0.5	<0.5
c-1,3-Dichloropropene	0.5	<0.5	Hexachlorobutadiene	0.5	<0.5
t-1,3-Dichloropropene	0.5	<0.5	Naphthalene	0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	1/2/3-Trichlorobenzene	0.5	<0.5
1,3-Dichloropropane	0.5	<0.5	Methyl-t-Butyl Ether	0.5	1
Tetrachloroethylene	0.5	78			
Dibromochloromethane	0.5	<0.5			
1,2-Dibromoethane	0.5	<0.5			
1,1,1,2-Tetrachloroethane	0.5	<0.5			
Bromoform	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
1,2,3-Trichloropropane	0.5	<0.5			
1,2-Dibromo-3-Chloropropane	0.5	<0.5			

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

Soil Gas Survey Report

Imperial Cleaners
218 Lakeville Road
Lake Success, New York

Voluntary Cleanup Program Site No. V-00244-1

October 24, 2000

Prepared by:

Anson Environmental Ltd.
771 New York Avenue
Huntington, New York 11743

Table of Contents

1.0 Executive Summary

On June 21, 2000, Anson Environmental Ltd. (AEL) visited the subject site to perform limited soil gas survey. A total of eight soil gas samples were collected from the same number of borings. In addition, a field blank sample of ambient air was also collected. The nine soil gas samples were collected in individual Tedlar air bags and subsequently delivered to Environmental Testing Laboratories, Farmingdale, New York, where they were analyzed for concentrations of volatile organic compounds (VOCs) using EPA Method 8260. This report describes the technique used to collect the soil gas samples and summarizes the results of the laboratory analyses of the samples.

2.0 Soil Gas Sampling Technique

Using a Geoprobe unit mounted on an all-terrain-vehicle (ATV), soil gas samples were collected from eight borings locations on or adjacent to 218 Lakeville Road. At each location, the Geoprobe unit was positioned over the boring point and a clean drive point adapter with a new expendable point was driven to the desired depth. The drive point adapters and stainless steel tubing connectors were cleaned with Alconox and double rinsed between each use.

After the drive point reached the desired depth below grade (DBG), the probe rod was retracted approximately 6-inches to create a void that allowed the migration of the soil gas sample into the bottom of the drive point adaptor.

Next, a clean unused piece of one-quarter inch polyethylene tubing was attached to the stainless adaptor. The tubing was then inserted into the probe rod and extended to the bottom. Using a counter-clockwise circular motion, the tubing was threaded to the drive point adaptor and tightened to compress the "O" ring seal.

After connecting the polyethylene tubing to the "down-hole" drive point adaptor, the tubing was purged by drawing a measured volume of soil gas/vapor through the tubing using a vacuum/volume system mounted on the ATV. The tubing connected to the drive point adaptor was then disconnected from the vacuum system and attached directly to a Tedlar air bag. The air bag was then opened and placed in a vacuum-sealed container. The container was then evacuated by the vacuum system, drawing soil gas from the void space below the adaptor and into the air bag. The container was then opened and the air bag was closed and prepared for delivery to the laboratory for analysis.

3.0 Soil Gas Sampling Locations

Six soil gas samples were collected on the property adjacent and south of Drywell No. 1 (DW#1) located at the southwest corner of 218 Lakeville Road (Figure 1). The first gas sample designated SGJT-1 was collected approximately 20-feet south of DW#1 and 24-feet depth below grade (DBG). The 24-feet DBG was selected to encounter the clay

formation that reportedly exists 14 –feet DBG at the rear of 218 Lakeville Road. The second soil gas sample designated SGJT-2 was collected approximately 30-feet south of DW#1 and also at 24-feet depth DBG.

Since the clay formation was not encountered, the NYSDEC observer agreed with AEL to collect all remaining samples 15-feet DBG.

The third, fourth, fifth and sixth soil gas samples were collected at approximately 15-feet DBG and at 40, 50, 60 and 70-feet, respectively, from DW#1. The aforementioned soil gas samples are designated SGJT-3, SGJT-4, SGJT-5 and SGJT-6, respectively.

A seventh soil gas sample designated SGJT-7 was collected from a boring located approximately 51-feet east of DW#1. The soil gas sample was also collected at 15-feet DBG.

The eighth soil gas sample designated SGJT-8 was collected from a boring located approximately 40-feet north of DW#1. Again, the soil gas sample was collected at 15-feet DBG.

4.0 Laboratory Analytical Results

As previously stated, the collected soil gas samples were delivered to a New York State certified laboratory where they were analyzed for concentrations of VOCs using EPA Method 8260. Table 1 summarizes the laboratory analytical reports for the collected soil gas samples. Table 1 lists the concentrations of VOCs that were detected above the laboratory method detection limit (MDL). The complete laboratory analytical report for each collected sample is in Appendix 1. The most significant VOCs detected by the laboratory above their MDL are tetrachloroethene and its breakdown products.

4.1. Data Usability Summary Report

This limited soil gas survey was performed to determine if the soil contamination plume extended beyond the property occupied by Imperial Cleaners. The results of this soil gas survey demonstrate that the plume does indeed extend off-site in the south and southeast direction. Based on the laboratory analysis for concentrations of volatile organic compounds (VOCs) using EPA Method 8260 a more extensive soil investigation is necessary.

The data collected during the limited soil gas survey does not meet NYSDEC guidelines for a Data Usability Summary Report (DUSR) because the samples were not analyzed in accordance with the requirements for ASP Category B or USEPA CLP deliverables. The report containing the results of the next soil gas and soil survey will include a DUSR.

5.0 Conclusions

While there are no published NYSDEC guidelines for concentrations of tetrachlorethene detected in soil gas samples, the results of the soil gas survey at 218 Lakeville Road indicates that a soil contamination plume may exist on the site and adjacent properties. The results of this survey indicate the presence of a contaminated soil gas plume that extends south of Drywell 1 (DW#1) to a minimum distance of 70-feet and to the east-southeast from DW#1 to a minimum distance of 51-feet. Based upon this information and the vicinity topography, the contaminated soil gas plume may also extend southeast, southwest and west of the site. A more thorough off-site investigation work plan will be developed and implemented to determine the extent and nature of the off-site soil gas, soil and groundwater contamination.

To confirm the extent of the soil contamination plume, AEL recommends that both soil and gas samples be collected at locations on the adjacent properties for field tests and laboratory analysis. AEL is preparing a work plan for performing this new investigation that will be submitted shortly.

Table 1 (Revised)

Concentrations of VOCs Detected in Collected Soil Gas Samples

Site Location: Imperial Cleaners

Sample Date: June 21, 2000 File: Gas Table Rev.

Sample DBG	SGJT-1 24 ft (ug/M3)	SGJT-2 24 ft (ug/M3)	SGJT-3 15 ft (ug/M3)	SGJT-4 15 ft (ug/M3)	SGJT-5 15 ft (ug/M3)	SGJT-6 15 ft (ug/M3)	SGJT-7 15 ft (ug/M3)	SGJT-8 15 ft (ug/M3)	Field Blank (ug/M3)
Analyte									
Vinyl Chloride	1,550	688	376	nd	nd	nd	234	nd	nd
1,1-Dichloroethene	303	143	nd	nd	nd	nd	nd	nd	nd
t-1,2-Dichloroethene	4,240	1,780	662	185	nd	nd	304	nd	nd
c-1,2-Dichloroethene	329,000	131,000	41,600	14,700	2,550	284	24,100	6,460	nd
Chloroform	nd	nd	nd	nd	nd	nd	nd	646	nd
Trichloroethene	61,100	30,200	13,500	3,970	1,150	170	8,470	3,560	nd
Toluene	220	203	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1,440,000	1,280,000	397,000	135,000	49,300	7,780	535,000	29,800	309
MTBE	nd	525	232	nd	nd	270	nd	nd	nd

DBG = depth below grade nd = not detected

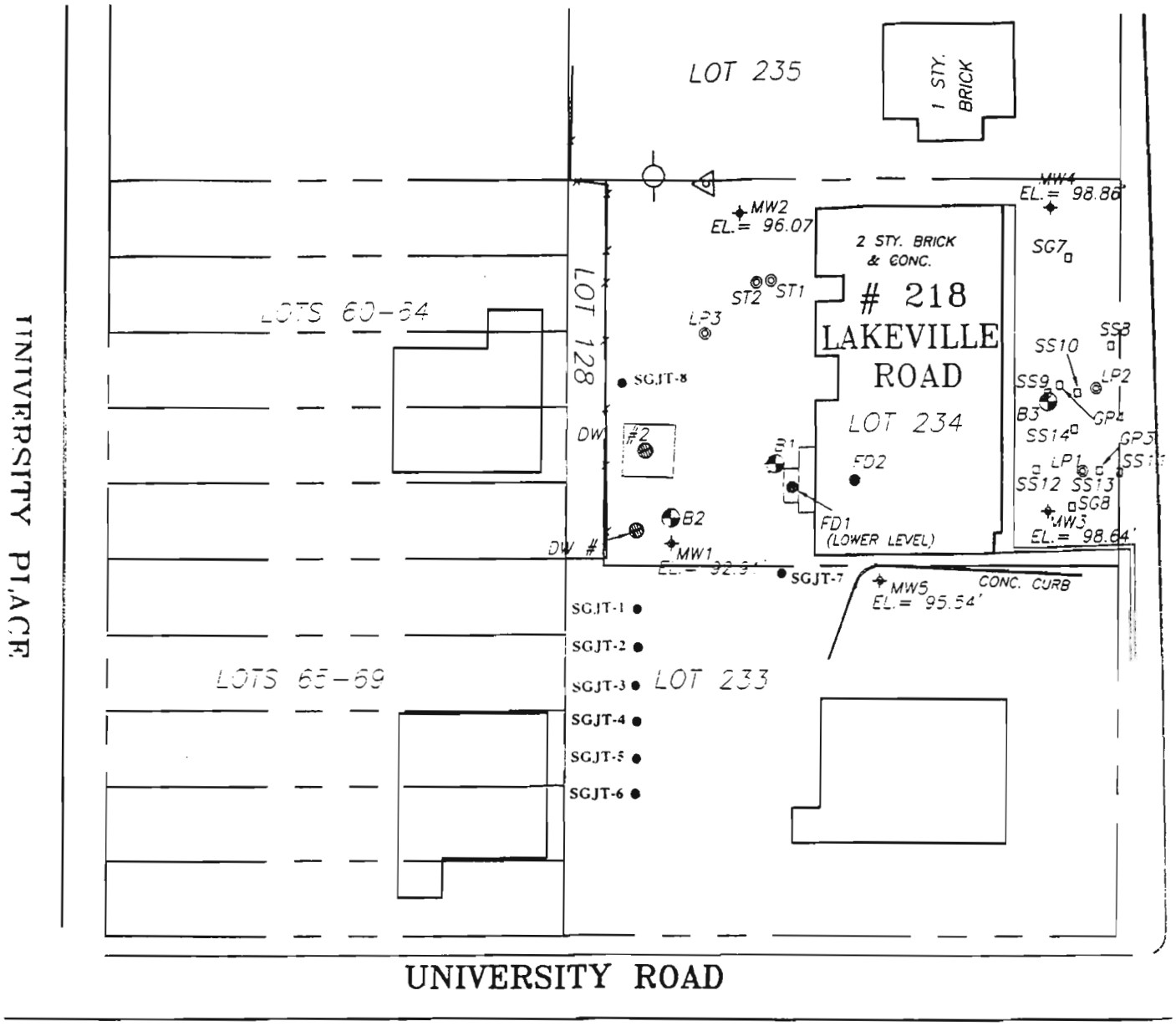
LOT 235
1 STY. BRICK
MW4
EL.= 98.86'
MW2
EL.= 96.07'
2 STY. BRICK & CONC.
SG7
218 LAKEVILLE ROAD
LOT 234
ST2
ST1
LP3
LOTS 60-64
LOT 128
SGJT-8
SS8
SS10
SS9
LP2
B3
GP4
SS14
GP5
SS11
LP1
SS12
SS13
SG8
MW3
EL.= 98.64'
DW
#2
B1
FD2
B2
FD1
(LOWER LEVEL)
DW #
MW1
EL.= 92.91'
SGJT-7
MW5
EL.= 95.54'
CONC. CURB
SGJT-1
SGJT-2
SGJT-3
SGJT-4
SGJT-5
SGJT-6
LOTS 65-69
LOT 233
UNIVERSITY PLACE
UNIVERSITY ROAD

Figure 1

Appendix 1

Laboratory Analytical Reports for Collected Soil Gas Samples

Site Location:
Imperial Cleaners
218 Lakeville Road
Lake Success, NY

Sample Date: June 21, 2000

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

Custody Document G7475
Received: 6/22/00 09:00
Sampled by: J. Tegins

Project: Imperial Cleaners
771 New York Avenue
Huntington,
NY

Manager: Dean Anson

Respectfully submitted,
Environmental Testing Laboratories,Inc.

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
VA Cert. # 108
NH Cert. # 252592-BA
MA Cert. # NY061
RI Cert. # 161
PA Cert. # 68-535

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-1
Client Sample ID: SGJT-1
Matrix: Air
Remarks: See case narrative

Collected: 6/21/00 11:30
Type: Grab

Analyzed: 6/28/00

Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.25	0.25	U
74-87-3	Chloromethane	0.24	0.24	U
75-01-4	Vinyl Chloride	0.25	**1550**	
74-83-9	Bromomethane	0.26	0.26	U
75-00-3	Chloroethane	0.54	0.54	U
75-69-4	Trichlorofluoromethane	0.32	0.32	U
75-35-4	1,1-Dichloroethene	0.19	**303**	
75-09-2	Methylene Chloride	0.40	0.40	U
156-60-5	t-1,2-Dichloroethene	107	**4240**	
75-34-3	1,1-Dichloroethane	0.16	0.16	U
590-20-7	2,2-Dichloropropane	0.21	0.21	U
156-59-2	c-1,2-Dichloroethene	11300	**329000**	
67-66-3	Chloroform	91.1	91.1	U
74-97-5	Bromochloromethane	0.19	0.19	U
71-55-6	1,1,1-Trichloroethane	0.19	0.19	U
563-58-6	1,1-Dichloropropene	0.14	0.14	U
56-23-5	Carbon Tetrachloride	0.23	0.23	U
107-06-2	1,2 Dichloroethane	0.40	0.40	U
71-43-2	Benzene	91.1	91.1	U
79-01-6	Trichloroethene	9110	**61100**	
78-87-5	1,2-Dichloropropane	45.6	45.6	U
75-27-4	Bromodichloromethane	37.5	37.5	U
74-95-3	Dibromomethane	80.4	80.4	U
10061-01-5	c-1,3-Dichloropropene	50.9	50.9	U
108-88-3	Toluene	50.9	**220**	
10061-02-6	t-1,3-Dichloropropene	56.3	56.3	U
79-00-5	1,1,2-Trichloroethane	59.0	59.0	U
142-28-9	1,3-Dichloropropane	0.26	0.26	U
127-18-4	Tetrachloroethene	4560	**1440000**	
124-48-1	Dibromochloromethane	0.29	0.29	U
106-93-4	1,2-Dibromoethane	0.23	0.23	U
108-90-7	Chlorobenzene	0.21	0.21	U
630-20-6	1,1,1,2-Tetrachloroethane	40.2	40.2	U
100-41-4	Ethylbenzene	0.18	0.18	U
108-38-3	m,p-xylene	0.48	0.48	U
95-47-6	o-xylene	0.26	0.26	U
100-42-5	Styrene	0.22	0.22	U
98-82-8	Isopropylbenzene	0.21	0.21	U
75-25-2	Bromoform	0.27	0.27	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-1-continue
Client Sample ID: SGJT-1 Collected: 6/21/00 11:30
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.29	0.29	U
96-18-4	1,2,3-Trichloropropane	0.35	0.35	U
103-65-1	n-Propylbenzene	0.21	0.21	U
108-86-1	Bromobenzene	0.27	0.27	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	U
95-49-8	2-Chlorotoluene	0.20	0.20	U
106-43-4	4-Chlorotoluene	0.23	0.23	U
99-87-6	4-Isopropyltoluene	34.8	34.8	U
95-63-6	1,2,4-trimethylbenzene	0.25	0.25	U
135-98-8	sec-Butylbenzene	50.9	50.9	U
98-06-6	tert-Butylbenzene	50.9	50.9	U
541-73-1	1,3 Dichlorobenzene	32.2	32.2	U
106-46-7	1,4-Dichlorobenzene	56.3	56.3	U
104-51-8	n-Butylbenzene	0.21	0.21	U
95-50-1	1,2-Dichlorobenzene	0.25	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	0.56	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.23	U
87-68-3	Hexachlorobutadiene	0.19	0.19	U
91-20-3	Naphthalene	0.21	0.21	U
87-61-6	1,2,3-Trichlorobenzene	0.25	0.25	U
1634-04-4	MTBE	67.0	67.0	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-2

Client Sample ID: SGJT-2

Collected: 6/21/00 12:00

Matrix: Air

Type: Grab

Remarks: See case narrative

Analyzed: 6/28/00

Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.16	0.16	U
74-87-3	Chloromethane	0.15	0.15	U
75-01-4	Vinyl Chloride	0.16	**688**	
74-83-9	Bromomethane	0.16	0.16	U
75-00-3	Chloroethane	0.34	0.34	U
75-69-4	Trichlorofluoromethane	0.20	0.20	U
75-35-4	1,1-Dichloroethene	0.12	**143**	
75-09-2	Methylene Chloride	0.25	0.25	U
156-60-5	t-1,2-Dichloroethene	68.0	**1780**	
75-34-3	1,1-Dichloroethane	0.10	0.10	U
590-20-7	2,2-Dichloropropane	0.13	0.13	U
156-59-2	c-1,2-Dichloroethene	7140	**131000**	
67-66-3	Chloroform	57.8	57.8	U
74-97-5	Bromochloromethane	0.12	0.12	U
71-55-6	1,1,1-Trichloroethane	0.12	0.12	U
563-58-6	1,1-Dichloropropene	0.087	0.087	U
56-23-5	Carbon Tetrachloride	0.14	0.14	U
107-06-2	1,2 Dichloroethane	0.25	0.25	U
71-43-2	Benzene	57.8	57.8	U
79-01-6	Trichloroethene	5780	**30200**	
78-87-5	1,2-Dichloropropane	28.9	28.9	U
75-27-4	Bromodichloromethane	23.8	23.8	U
74-95-3	Dibromomethane	51.0	51.0	U
10061-01-5	c-1,3-Dichloropropene	32.3	32.3	U
108-88-3	Toluene	32.3	**203**	
10061-02-6	t-1,3-Dichloropropene	35.7	35.7	U
79-00-5	1,1,2-Trichloroethane	37.4	37.4	U
142-28-9	1,3-Dichloropropane	0.16	0.16	U
127-18-4	Tetrachloroethene	2890	**1280000**	
124-48-1	Dibromochloromethane	0.19	0.19	U
106-93-4	1,2-Dibromoethane	0.14	0.14	U
108-90-7	Chlorobenzene	0.13	0.13	U
630-20-6	1,1,1,2-Tetrachloroethane	25.5	25.5	U
100-41-4	Ethylbenzene	0.12	0.12	U
108-38-3	m,p-xylene	0.31	0.31	U
95-47-6	o-xylene	0.17	0.17	U
100-42-5	Styrene	0.14	0.14	U
98-82-8	Isopropylbenzene	0.13	0.13	U
75-25-2	Bromoform	0.17	0.17	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-2-continue
Client Sample ID: SGJT-2 Collected: 6/21/00 12:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.19	0.19	U
96-18-4	1,2,3-Trichloropropane	0.22	0.22	U
103-65-1	n-Propylbenzene	0.13	0.13	U
108-86-1	Bromobenzene	0.17	0.17	U
108-67-8	1,3,5-Trimethylbenzene	0.13	0.13	U
95-49-8	2-Chlorotoluene	0.13	0.13	U
106-43-4	4-Chlorotoluene	0.15	0.15	U
99-87-6	4-Isopropyltoluene	22.1	22.1	U
95-63-6	1,2,4-trimethylbenzene	0.16	0.16	U
135-98-8	sec-Butylbenzene	32.3	32.3	U
98-06-6	tert-Butylbenzene	32.3	32.3	U
541-73-1	1,3 Dichlorobenzene	20.4	20.4	U
106-46-7	1,4-Dichlorobenzene	35.7	35.7	U
104-51-8	n-Butylbenzene	0.14	0.14	U
95-50-1	1,2-Dichlorobenzene	0.16	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	0.36	0.36	U
120-82-1	1,2,4-Trichlorobenzene	0.14	0.14	U
87-68-3	Hexachlorobutadiene	0.12	0.12	U
91-20-3	Naphthalene	0.13	0.13	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	U
1634-04-4	MTBE	42.5	525	

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-3

Client Sample ID: SGJT-3 Collected: 6/21/00 12:30

Matrix: Air Type: Grab

Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.27	0.27	U
74-87-3	Chloromethane	0.25	0.25	U
75-01-4	Vinyl Chloride	0.27	**376**	
74-83-9	Bromomethane	0.27	0.27	U
75-00-3	Chloroethane	0.57	0.57	U
75-69-4	Trichlorofluoromethane	0.34	0.34	U
75-35-4	1,1-Dichloroethene	0.20	0.20	U
75-09-2	Methylene Chloride	0.42	0.42	U
156-60-5	t-1,2-Dichloroethene	113	**662**	
75-34-3	1,1-Dichloroethane	0.17	0.17	U
590-20-7	2,2-Dichloropropane	0.22	0.22	U
156-59-2	c-1,2-Dichloroethene	11900	**41600**	
67-66-3	Chloroform	96.2	96.2	U
74-97-5	Bromochloromethane	0.20	0.20	U
71-55-6	1,1,1-Trichloroethane	0.20	0.20	U
563-58-6	1,1-Dichloropropene	0.14	0.14	U
56-23-5	Carbon Tetrachloride	0.24	0.24	U
107-06-2	1,2 Dichloroethane	0.42	0.42	U
71-43-2	Benzene	96.2	96.2	U
79-01-6	Trichloroethene	79.2	**13500**	
78-87-5	1,2-Dichloropropane	48.1	48.1	U
75-27-4	Bromodichloromethane	39.6	39.6	U
74-95-3	Dibromomethane	84.9	84.9	U
10061-01-5	c-1,3-Dichloropropene	53.8	53.8	U
108-88-3	Toluene	53.8	53.8	U
10061-02-6	t-1,3-Dichloropropene	59.4	59.4	U
79-00-5	1,1,2-Trichloroethane	62.3	62.3	U
142-28-9	1,3-Dichloropropane	0.27	0.27	U
127-18-4	Tetrachloroethene	4810	**397000**	
124-48-1	Dibromochloromethane	0.31	0.31	U
106-93-4	1,2-Dibromoethane	0.24	0.24	U
108-90-7	Chlorobenzene	0.22	0.22	U
630-20-6	1,1,1,2-Tetrachloroethane	42.5	42.5	U
100-41-4	Ethylbenzene	0.19	0.19	U
108-38-3	m,p-xylene	0.51	0.51	U
95-47-6	o-xylene	0.28	0.28	U
100-42-5	Styrene	0.23	0.23	U
98-82-8	Isopropylbenzene	0.22	0.22	U
75-25-2	Bromoform	0.28	0.28	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-3-continue
Client Sample ID: SGJT-3 Collected: 6/21/00 12:30
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.31	0.31	U
96-18-4	1,2,3-Trichloropropane	0.37	0.37	U
103-65-1	n-Propylbenzene	0.22	0.22	U
108-86-1	Bromobenzene	0.28	0.28	U
108-67-8	1,3,5-Trimethylbenzene	0.22	0.22	U
95-49-8	2-Chlorotoluene	0.22	0.22	U
106-43-4	4-Chlorotoluene	0.25	0.25	U
99-87-6	4-Isopropyltoluene	36.8	36.8	U
95-63-6	1,2,4-trimethylbenzene	0.27	0.27	U
135-98-8	sec-Butylbenzene	53.8	53.8	U
98-06-6	tert-Butylbenzene	53.8	53.8	U
541-73-1	1,3 Dichlorobenzene	34.0	34.0	U
106-46-7	1,4-Dichlorobenzene	59.4	59.4	U
104-51-8	n-Butylbenzene	0.23	0.23	U
95-50-1	1,2-Dichlorobenzene	0.26	0.26	U
96-12-8	1,2-Dibromo-3-chloropropane	0.59	0.59	U
120-82-1	1,2,4-Trichlorobenzene	0.24	0.24	U
87-68-3	Hexachlorobutadiene	0.20	0.20	U
91-20-3	Naphthalene	0.22	0.22	U
87-61-6	1,2,3-Trichlorobenzene	0.26	0.26	U
1634-04-4	MTBE	70.8	**232**	

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-4
Client Sample ID: SGJT-4 Collected: 6/21/00 13:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.21	0.21	U
74-87-3	Chloromethane	0.19	0.19	U
75-01-4	Vinyl Chloride	0.21	0.21	U
74-83-9	Bromomethane	0.21	0.21	U
75-00-3	Chloroethane	0.44	0.44	U
75-69-4	Trichlorofluoromethane	0.26	0.26	U
75-35-4	1,1-Dichloroethene	0.15	0.15	U
75-09-2	Methylene Chloride	0.33	0.33	U
156-60-5	t-1,2-Dichloroethene	88.0	**185**	
75-34-3	1,1-Dichloroethane	0.13	0.13	U
590-20-7	2,2-Dichloropropane	0.17	0.17	U
156-59-2	c-1,2-Dichloroethene	0.16	**14700**	
67-66-3	Chloroform	74.8	74.8	U
74-97-5	Bromochloromethane	0.16	0.16	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	U
563-58-6	1,1-Dichloropropene	0.11	0.11	U
56-23-5	Carbon Tetrachloride	0.19	0.19	U
107-06-2	1,2 Dichloroethane	0.33	0.33	U
71-43-2	Benzene	74.8	74.8	U
79-01-6	Trichloroethene	61.6	**3970**	
78-87-5	1,2-Dichloropropane	37.4	37.4	U
75-27-4	Bromodichloromethane	30.8	30.8	U
74-95-3	Dibromomethane	66.0	66.0	U
10061-01-5	c-1,3-Dichloropropene	41.8	41.8	U
108-88-3	Toluene	41.8	41.8	U
10061-02-6	t-1,3-Dichloropropene	46.2	46.2	U
79-00-5	1,1,2-Trichloroethane	48.4	48.4	U
142-28-9	1,3-Dichloropropane	0.21	0.21	U
127-18-4	Tetrachloroethene	374	**135000**	
124-48-1	Dibromochloromethane	0.24	0.24	U
106-93-4	1,2-Dibromoethane	0.19	0.19	U
108-90-7	Chlorobenzene	0.17	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	33.0	33.0	U
100-41-4	Ethylbenzene	0.15	0.15	U
108-38-3	m,p-xylene	0.40	0.40	U
95-47-6	o-xylene	0.22	0.22	U
100-42-5	Styrene	0.18	0.18	U
98-82-8	Isopropylbenzene	0.17	0.17	U
75-25-2	Bromoform	0.22	0.22	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-4-continue
Client Sample ID: SGJT-4 Collected: 6/21/00 13:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.24	0.24	U
96-18-4	1,2,3-Trichloropropane	0.29	0.29	U
103-65-1	n-Propylbenzene	0.17	0.17	U
108-86-1	Bromobenzene	0.22	0.22	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.17	U
95-49-8	2-Chlorotoluene	0.17	0.17	U
106-43-4	4-Chlorotoluene	0.19	0.19	U
99-87-6	4-Isopropyltoluene	28.6	28.6	U
95-63-6	1,2,4-trimethylbenzene	0.21	0.21	U
135-98-8	sec-Butylbenzene	41.8	41.8	U
98-06-6	tert-Butylbenzene	41.8	41.8	U
541-73-1	1,3 Dichlorobenzene	26.4	26.4	U
106-46-7	1,4-Dichlorobenzene	46.2	46.2	U
104-51-8	n-Butylbenzene	0.18	0.18	U
95-50-1	1,2-Dichlorobenzene	0.20	0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.46	0.46	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.19	U
87-68-3	Hexachlorobutadiene	0.16	0.16	U
91-20-3	Naphthalene	0.17	0.17	U
87-61-6	1,2,3-Trichlorobenzene	0.20	0.20	U
1634-04-4	MTBE	55.0	55.0	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-5

Client Sample ID: SGJT-5 Collected: 6/21/00 13:30

Matrix: Air Type: Grab

Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.16	0.16	U
74-87-3	Chloromethane	0.15	0.15	U
75-01-4	Vinyl Chloride	0.16	0.16	U
74-83-9	Bromomethane	0.16	0.16	U
75-00-3	Chloroethane	0.33	0.33	U
75-69-4	Trichlorofluoromethane	0.20	0.20	U
75-35-4	1,1-Dichloroethene	0.12	0.12	U
75-09-2	Methylene Chloride	0.25	0.25	U
156-60-5	t-1,2-Dichloroethene	66.8	66.8	U
75-34-3	1,1-Dichloroethane	0.099	0.099	U
590-20-7	2,2-Dichloropropane	0.13	0.13	U
156-59-2	c-1,2-Dichloroethene	0.12	**2550**	
67-66-3	Chloroform	56.8	56.8	U
74-97-5	Bromochloromethane	0.12	0.12	U
71-55-6	1,1,1-Trichloroethane	0.12	0.12	U
563-58-6	1,1-Dichloropropene	0.085	0.085	U
56-23-5	Carbon Tetrachloride	0.14	0.14	U
107-06-2	1,2 Dichloroethane	0.25	0.25	U
71-43-2	Benzene	56.8	56.8	U
79-01-6	Trichloroethene	46.8	**1150**	
78-87-5	1,2-Dichloropropane	28.4	28.4	U
75-27-4	Bromodichloromethane	23.4	23.4	U
74-95-3	Dibromomethane	50.1	50.1	U
10061-01-5	c-1,3-Dichloropropene	31.7	31.7	U
108-88-3	Toluene	31.7	31.7	U
10061-02-6	t-1,3-Dichloropropene	35.1	35.1	U
79-00-5	1,1,2-Trichloroethane	36.7	36.7	U
142-28-9	1,3-Dichloropropane	0.16	0.16	U
127-18-4	Tetrachloroethene	284	**49300**	
124-48-1	Dibromochloromethane	0.18	0.18	U
106-93-4	1,2-Dibromoethane	0.14	0.14	U
108-90-7	Chlorobenzene	0.13	0.13	U
630-20-6	1,1,1,2-Tetrachloroethane	25.0	25.0	U
100-41-4	Ethylbenzene	0.11	0.11	U
108-38-3	m,p-xylene	0.30	0.30	U
95-47-6	o-xylene	0.16	0.16	U
100-42-5	Styrene	0.14	0.14	U
98-82-8	Isopropylbenzene	0.13	0.13	U
75-25-2	Bromoform	0.17	0.17	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-5-continue
Client Sample ID: SGJT-5 Collected: 6/21/00 13:30
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.18	0.18	U
96-18-4	1,2,3-Trichloropropane	0.22	0.22	U
103-65-1	n-Propylbenzene	0.13	0.13	U
108-86-1	Bromobenzene	0.17	0.17	U
108-67-8	1,3,5-Trimethylbenzene	0.13	0.13	U
95-49-8	2-Chlorotoluene	0.13	0.13	U
106-43-4	4-Chlorotoluene	0.15	0.15	U
99-87-6	4-Isopropyltoluene	21.7	21.7	U
95-63-6	1,2,4-trimethylbenzene	0.16	0.16	U
135-98-8	sec-Butylbenzene	31.7	31.7	U
98-06-6	tert-Butylbenzene	31.7	31.7	U
541-73-1	1,3 Dichlorobenzene	20.0	20.0	U
106-46-7	1,4-Dichlorobenzene	35.1	35.1	U
104-51-8	n-Butylbenzene	0.13	0.13	U
95-50-1	1,2-Dichlorobenzene	0.16	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	0.35	0.35	U
120-82-1	1,2,4-Trichlorobenzene	0.14	0.14	U
87-68-3	Hexachlorobutadiene	0.12	0.12	U
91-20-3	Naphthalene	0.13	0.13	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	U
1634-04-4	MTBE	41.8	41.8	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-6
Client Sample ID: SGJT-6 Collected: 6/21/00 14:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.19	0.19	U
74-87-3	Chloromethane	0.18	0.18	U
75-01-4	Vinyl Chloride	0.19	0.19	U
74-83-9	Bromomethane	0.19	0.19	U
75-00-3	Chloroethane	0.41	0.41	U
75-69-4	Trichlorofluoromethane	0.24	0.24	U
75-35-4	1,1-Dichloroethene	0.14	0.14	U
75-09-2	Methylene Chloride	0.30	0.30	U
156-60-5	t-1,2-Dichloroethene	81.2	81.2	U
75-34-3	1,1-Dichloroethane	0.12	0.12	U
590-20-7	2,2-Dichloropropane	0.16	0.16	U
156-59-2	c-1,2-Dichloroethene	0.15	**284**	
67-66-3	Chloroform	69.0	69.0	U
74-97-5	Bromochloromethane	0.15	0.15	U
71-55-6	1,1,1-Trichloroethane	0.14	0.14	U
563-58-6	1,1-Dichloropropene	0.10	0.10	U
56-23-5	Carbon Tetrachloride	0.17	0.17	U
107-06-2	1,2 Dichloroethane	0.30	0.30	U
71-43-2	Benzene	69.0	69.0	U
79-01-6	Trichloroethene	56.8	**170**	
78-87-5	1,2-Dichloropropane	34.5	34.5	U
75-27-4	Bromodichloromethane	28.4	28.4	U
74-95-3	Dibromomethane	60.9	60.9	U
10061-01-5	c-1,3-Dichloropropene	38.6	38.6	U
108-88-3	Toluene	38.6	38.6	U
10061-02-6	t-1,3-Dichloropropene	42.6	42.6	U
79-00-5	1,1,2-Trichloroethane	44.7	44.7	U
142-28-9	1,3-Dichloropropane	0.20	0.20	U
127-18-4	Tetrachloroethene	0.13	**7780**	
124-48-1	Dibromochloromethane	0.22	0.22	U
106-93-4	1,2-Dibromoethane	0.17	0.17	U
108-90-7	Chlorobenzene	0.16	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	30.5	30.5	U
100-41-4	Ethylbenzene	0.14	0.14	U
108-38-3	m,p-xylene	0.37	0.37	U
95-47-6	o-xylene	0.20	0.20	U
100-42-5	Styrene	0.17	0.17	U
98-82-8	Isopropylbenzene	0.16	0.16	U
75-25-2	Bromoform	0.20	0.20	U

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-6-continue

Client Sample ID: SGJT-6 Collected: 6/21/00 14:00

Matrix: Air Type: Grab

Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	U
96-18-4	1,2,3-Trichloropropane	0.26	0.26	U
103-65-1	n-Propylbenzene	0.16	0.16	U
108-86-1	Bromobenzene	0.20	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.15	U
95-49-8	2-Chlorotoluene	0.15	0.15	U
106-43-4	4-Chlorotoluene	0.18	0.18	U
99-87-6	4-Isopropyltoluene	26.4	26.4	U
95-63-6	1.2,4-trimethylbenzene	0.19	0.19	U
135-98-8	sec-Butylbenzene	38.6	38.6	U
98-06-6	tert-Butylbenzene	38.6	38.6	U
541-73-1	1,3 Dichlorobenzene	24.4	24.4	U
106-46-7	1,4-Dichlorobenzene	42.6	42.6	U
104-51-8	n-Butylbenzene	0.16	0.16	U
95-50-1	1,2-Dichlorobenzene	0.19	0.19	U
96-12-8	1,2-Dibromo-3-chloropropane	0.43	0.43	U
120-82-1	1,2,4-Trichlorobenzene	0.17	0.17	U
87-68-3	Hexachlorobutadiene	0.15	0.15	U
91-20-3	Naphthalene	0.16	0.16	U
87-61-6	1,2,3-Trichlorobenzene	0.19	0.19	U
1634-04-4	MTBE	50.8	270	

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ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-7
Client Sample ID: SGJT-7 Collected: 6/21/00 14:30
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.18	0.18	U
74-87-3	Chloromethane	0.17	0.17	U
75-01-4	Vinyl Chloride	0.18	**234**	
74-83-9	Bromomethane	0.18	0.18	U
75-00-3	Chloroethane	0.38	0.38	U
75-69-4	Trichlorofluoromethane	0.23	0.23	U
75-35-4	1,1-Dichloroethene	0.13	0.13	U
75-09-2	Methylene Chloride	0.28	0.28	U
156-60-5	t-1,2-Dichloroethene	76.0	**304**	
75-34-3	1,1-Dichloroethane	0.11	0.11	U
590-20-7	2,2-Dichloropropane	0.15	0.15	U
156-59-2	c-1,2-Dichloroethene	0.14	**24100**	
67-66-3	Chloroform	64.6	64.6	U
74-97-5	Bromochloromethane	0.14	0.14	U
71-55-6	1,1,1-Trichloroethane	0.13	0.13	U
563-58-6	1,1-Dichloropropene	0.097	0.097	U
56-23-5	Carbon Tetrachloride	0.16	0.16	U
107-06-2	1,2 Dichloroethane	0.28	0.28	U
71-43-2	Benzene	64.6	64.6	U
79-01-6	Trichloroethene	53.2	**8470**	
78-87-5	1,2-Dichloropropane	32.3	32.3	U
75-27-4	Bromodichloromethane	26.6	26.6	U
74-95-3	Dibromomethane	57.0	57.0	U
10061-01-5	c-1,3-Dichloropropene	36.1	36.1	U
108-88-3	Toluene	36.1	36.1	U
10061-02-6	t-1,3-Dichloropropene	39.9	39.9	U
79-00-5	1,1,2-Trichloroethane	41.8	41.8	U
142-28-9	1,3-Dichloropropane	0.18	0.18	U
127-18-4	Tetrachloroethene	3230	**535000**	
124-48-1	Dibromochloromethane	0.21	0.21	U
106-93-4	1,2-Dibromoethane	0.16	0.16	U
108-90-7	Chlorobenzene	0.15	0.15	U
630-20-6	1,1,1,2-Tetrachloroethane	28.5	28.5	U
100-41-4	Ethylbenzene	0.13	0.13	U
108-38-3	m,p-xylene	0.34	0.34	U
95-47-6	o-xylene	0.19	0.19	U
100-42-5	Styrene	0.16	0.16	U
98-82-8	Isopropylbenzene	0.15	0.15	U
75-25-2	Bromoform	0.19	0.19	U

Environmental Testing Laboratories, Inc.

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7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-7-continue
Client Sample ID: SGJT-7 Collected: 6/21/00 14:30
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	U
96-18-4	1,2,3-Trichloropropane	0.25	0.25	U
103-65-1	n-Propylbenzene	0.15	0.15	U
108-86-1	Bromobenzene	0.19	0.19	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	U
95-49-8	2-Chlorotoluene	0.14	0.14	U
106-43-4	4-Chlorotoluene	0.17	0.17	U
99-87-6	4-Isopropyltoluene	24.7	24.7	U
95-63-6	1.2,4-trimethylbenzene	0.18	0.18	U
135-98-8	sec-Butylbenzene	36.1	36.1	U
98-06-6	tert-Butylbenzene	36.1	36.1	U
541-73-1	1.3 Dichlorobenzene	22.8	22.8	U
106-46-7	1.4-Dichlorobenzene	39.9	39.9	U
104-51-8	n-Butylbenzene	0.15	0.15	U
95-50-1	1.2-Dichlorobenzene	0.18	0.18	U
96-12-8	1.2-Dibromo-3-chloropropane	0.40	0.40	U
120-82-1	1.2.4-Trichlorobenzene	0.16	0.16	U
87-68-3	Hexachlorobutadiene	0.14	0.14	U
91-20-3	Naphthalene	0.15	0.15	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	U
1634-04-4	MTBE	47.5	47.5	U

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7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-8
Client Sample ID: SGJT-8 Collected: 6/21/00 15:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	0.15	0.15	U
74-87-3	Chloromethane	0.14	0.14	U
75-01-4	Vinyl Chloride	0.15	0.15	U
74-83-9	Bromomethane	0.15	0.15	U
75-00-3	Chloroethane	0.31	0.31	U
75-69-4	Trichlorofluoromethane	0.19	0.19	U
75-35-4	1,1-Dichloroethene	0.11	0.11	U
75-09-2	Methylene Chloride	0.23	0.23	U
156-60-5	t-1,2-Dichloroethene	62.0	62.0	U
75-34-3	1,1-Dichloroethane	0.091	0.091	U
590-20-7	2,2-Dichloropropane	0.12	0.12	U
156-59-2	c-1,2-Dichloroethene	0.11	**6460**	
67-66-3	Chloroform	52.7	**646**	
74-97-5	Bromochloromethane	0.11	0.11	U
71-55-6	1,1,1-Trichloroethane	0.11	0.11	U
563-58-6	1,1-Dichloropropene	0.079	0.079	U
56-23-5	Carbon Tetrachloride	0.13	0.13	U
107-06-2	1,2 Dichloroethane	0.23	0.23	U
71-43-2	Benzene	52.7	52.7	U
79-01-6	Trichloroethene	43.4	**3560**	
78-87-5	1,2-Dichloropropane	26.4	26.4	U
75-27-4	Bromodichloromethane	21.7	21.7	U
74-95-3	Dibromomethane	46.5	46.5	U
10061-01-5	c-1,3-Dichloropropene	29.5	29.5	U
108-88-3	Toluene	29.5	29.5	U
10061-02-6	t-1,3-Dichloropropene	32.5	32.5	U
79-00-5	1,1,2-Trichloroethane	34.1	34.1	U
142-28-9	1,3-Dichloropropane	0.15	0.15	U
127-18-4	Tetrachloroethene	0.98	**29800**	
124-48-1	Dibromochloromethane	0.17	0.17	U
106-93-4	1,2-Dibromoethane	0.13	0.13	U
108-90-7	Chlorobenzene	0.12	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	23.3	23.3	U
100-41-4	Ethylbenzene	0.11	0.11	U
108-38-3	m,p-xylene	0.28	0.28	U
95-47-6	o-xylene	0.15	0.15	U
100-42-5	Styrene	0.13	0.13	U
98-82-8	Isopropylbenzene	0.12	0.12	U
75-25-2	Bromoform	0.15	0.15	U

Environmental Testing Laboratories, Inc.

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7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-8-continue
Client Sample ID: SGJT-8 Collected: 6/21/00 15:00
Matrix: Air Type: Grab
Remarks: See case narrative

Analyzed: 6/28/00 Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	0.17	0.17	U
96-18-4	1,2,3-Trichloropropane	0.20	0.20	U
103-65-1	n-Propylbenzene	0.12	0.12	U
108-86-1	Bromobenzene	0.16	0.16	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	U
95-49-8	2-Chlorotoluene	0.12	0.12	U
106-43-4	4-Chlorotoluene	0.13	0.13	U
99-87-6	4-Isopropyltoluene	20.1	20.1	U
95-63-6	1,2,4-trimethylbenzene	0.15	0.15	U
135-98-8	sec-Butylbenzene	29.5	29.5	U
98-06-6	tert-Butylbenzene	29.5	29.5	U
541-73-1	1,3 Dichlorobenzene	18.6	18.6	U
106-46-7	1,4-Dichlorobenzene	32.5	32.5	U
104-51-8	n-Butylbenzene	0.12	0.12	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	U
120-82-1	1,2,4-Trichlorobenzene	0.13	0.13	U
87-68-3	Hexachlorobutadiene	0.11	0.11	U
91-20-3	Naphthalene	0.12	0.12	U
87-61-6	1,2,3-Trichlorobenzene	0.14	0.14	U
1634-04-4	MTBE	38.8	38.8	U

Environmental Testing Laboratories, Inc.

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7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-9
Client Sample ID: Field Blank
Matrix: Air
Remarks: See case narrative

Collected: 6/21/00 15:30
Type: Blank

Analyzed: 6/28/00
Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
75-71-8	Dichlorodifluoromethane	94.5	94.5	U
74-87-3	Chloromethane	61.5	61.5	U
75-01-4	Vinyl Chloride	61.5	61.5	U
74-83-9	Bromomethane	93.0	93.0	U
75-00-3	Chloroethane	105	105	U
75-69-4	Trichlorofluoromethane	28.5	28.5	U
75-35-4	1,1-Dichloroethene	42.0	42.0	U
75-09-2	Methylene Chloride	208	208	U
156-60-5	t-1,2-Dichloroethene	61.5	61.5	U
75-34-3	1,1-Dichloroethane	64.5	64.5	U
590-20-7	2,2-Dichloropropane	45.0	45.0	U
156-59-2	c-1,2-Dichloroethene	63.0	63.0	U
67-66-3	Chloroform	39.0	39.0	U
74-97-5	Bromochloromethane	84.0	84.0	U
71-55-6	1,1,1-Trichloroethane	46.5	46.5	U
563-58-6	1,1-Dichloropropene	165	165	U
56-23-5	Carbon Tetrachloride	45.0	45.0	U
107-06-2	1,2 Dichloroethane	70.5	70.5	U
71-43-2	Benzene	33.0	33.0	U
79-01-6	Trichloroethene	51.0	51.0	U
78-87-5	1,2-Dichloropropane	40.5	40.5	U
75-27-4	Bromodichloromethane	24.0	24.0	U
74-95-3	Dibromomethane	34.5	34.5	U
10061-01-5	c-1,3-Dichloropropene	120	120	U
108-88-3	Toluene	31.5	31.5	U
10061-02-6	t-1,3-Dichloropropene	118	118	U
79-00-5	1,1,2-Trichloroethane	25.5	25.5	U
142-28-9	1,3-Dichloropropane	46.5	46.5	U
127-18-4	Tetrachloroethene	25.5	**309**	
124-48-1	Dibromochloromethane	27.0	27.0	U
106-93-4	1,2-Dibromoethane	25.5	25.5	U
108-90-7	Chlorobenzene	24.0	24.0	U
630-20-6	1,1,1,2-Tetrachloroethane	28.5	28.5	U
100-41-4	Ethylbenzene	25.5	25.5	U
108-38-3	m,p-xylene	39.0	39.0	U
95-47-6	o-xylene	31.5	31.5	U
100-42-5	Styrene	18.0	18.0	U
98-82-8	Isopropylbenzene	15.0	15.0	U
75-25-2	Bromoform	33.0	33.0	U

Environmental Testing Laboratories, Inc.

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7/6/00

ANALYSIS REPORT - EPA 8260 in Air

Sample: G7475-9-continue
Client Sample ID: Field Blank
Matrix: Air
Remarks: See case narrative

Collected: 6/21/00 15:30
Type: Blank

Analyzed: 6/28/00

Units: ug/M3

CAS No	Analyte	MDL	Concentration	Q
79-34-5	1,1,2,2-Tetrachloroethane	48.0	48.0	U
96-18-4	1,2,3-Trichloropropane	108	108	U
103-65-1	n-Propylbenzene	33.0	33.0	U
108-86-1	Bromobenzene	45.0	45.0	U
108-67-8	1,3,5-Trimethylbenzene	25.5	25.5	U
95-49-8	2-Chlorotoluene	30.0	30.0	U
106-43-4	4-Chlorotoluene	48.0	48.0	U
99-87-6	4-Isopropyltoluene	22.5	22.5	U
95-63-6	1,2,4-trimethylbenzene	24.0	24.0	U
135-98-8	sec-Butylbenzene	30.0	30.0	U
98-06-6	tert-Butylbenzene	22.5	22.5	U
541-73-1	1,3 Dichlorobenzene	28.5	28.5	U
106-46-7	1,4-Dichlorobenzene	36.0	36.0	U
104-51-8	n-Butylbenzene	33.0	33.0	U
95-50-1	1,2-Dichlorobenzene	16.5	16.5	U
96-12-8	1,2-Dibromo-3-chloropropane	36.0	36.0	U
120-82-1	1,2,4-Trichlorobenzene	36.0	36.0	U
87-68-3	Hexachlorobutadiene	18.0	18.0	U
91-20-3	Naphthalene	31.5	31.5	U
87-61-6	1,2,3-Trichlorobenzene	126	126	U
1634-04-4	MTBE	93.0	93.0	U

Environmental Testing Laboratories, Inc.
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7/6/00

CASE NARRATIVE

AIR8260

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl,2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

7/6/00

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - Concentration qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - Method qualifiers are as follows:

A	-	Flame AA
AS	-	Semi-automated Spectrophotometric
AV	-	Automated Cold Vapor AA
C	-	Manual Spectrophotometric
F	-	Furnace AA
NR	-	The analyte is not required to be analyzed.
P	-	ICP
T	-	Titrimetric

ETL
Environmental Testing Laboratories, Inc.

208 Route 109 • Farmingdale • New York 11735

516-249-1456
516-249-3150
FAX 516-249-8344

(NY) NH MA VT
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CT PA MD VA

SOIL, WATER & AIR ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

G 7475

SHIPPING COPY

Project Name: IMPERIAL CLEANERS Project Manager: DEAN ANSIN

Sampler (Signature): [signature] (Print): J. TEGINS

Project Address: 771 NEW YORK AVE., HUNTINGTON, NY 11743

Bill to: ANSON ENV. J/N: 95085 ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe * Air - include Vol. (Liters) Flow (CFM)

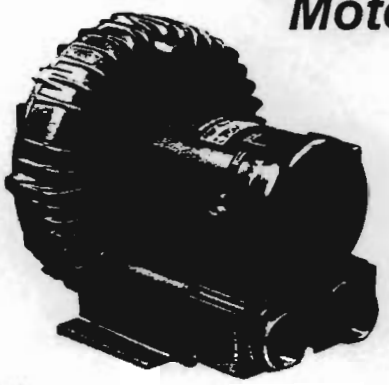
ID	Date	Time	Type	Matrix	Sample Location	601/8010	602/8020	BTX/BTEX	MTBE	624/8240/8260	625/8270/BN	PCB/Pesticides	Pet. Prods.	TCLP Metals	RCRA Metals	Reactivity	pH - Corrosivity	Ignitability	418.1-TRPH
1	6/21/00	1130	G	AIR	SG JT-1					1									
2	6/21/00	1200	G	↓	SG JT-2					1									
3	6/21/00	1230	G	↓	SG JT-3					1									
4	6/21/00	1300	G	↓	SG JT-4					1									
5	6/21/00	1330	G	↓	SG JT-5					1									
6	6/21/00	1400	G	↓	SG JT-6					1									
7	6/21/00	1430	G	↓	SG JT-7					1									
8	6/21/00	1500	G	↓	SG JT-8					1									
9	6/21/00	1530	G	AIR	FIELD BLANK					1									
10																			
11																			
12																			
13																			

Relinquished by (Signature): [signature]	Date 6/22/00 Time 0900	Printed Name & Agent: J. TEGINS ANSON	Received by (Signature):	Date Time	Printed Name & Agent:
Relinquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions: EPA 8260		Disposal Facility:
Received for Lab by (Signature): [signature]	Date 6/23/00 Time 0900	Printed Name: C. [illegible]	Number & Type of Containers: 9 TEDLAR AIR BAGS		Preservatives: NA [signature] 6/23/00

Oilless Regenerative Blowers, Motor Mounted

GAST

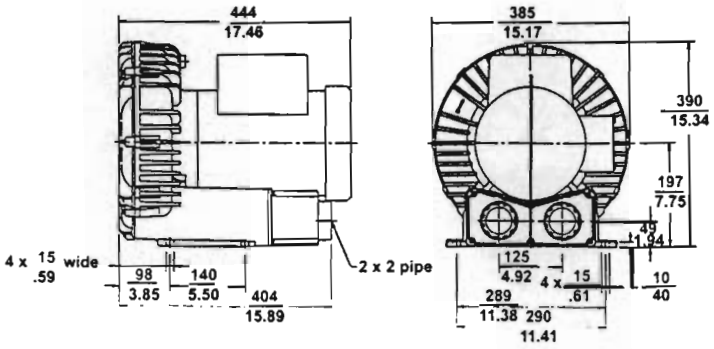
REGENAIR® R6 Series



MODEL R6150J-2

95" H_2O MAX. PRESSURE, 210 cfm OPEN FLOW
85" H_2O MAX. VACUUM

(mm) (Inches)



PRODUCT FEATURES

- Oilless operation
- UL and CSA approved open, drip proof motor with permanently sealed ball bearings. Class F insulation
- CE compliant - Declaration of Conformity on file
- Automatic restart thermal protection
- Can be mounted in any plane

RECOMMENDED ACCESSORIES

- Pressure gauge AE133
- Inlet filter (pressure) AJ126F
- Vacuum gauge AE134
- Muffler AJ121F
- Inline filter (vacuum) AJ151G
- Pressure/vacuum relief valve AG258

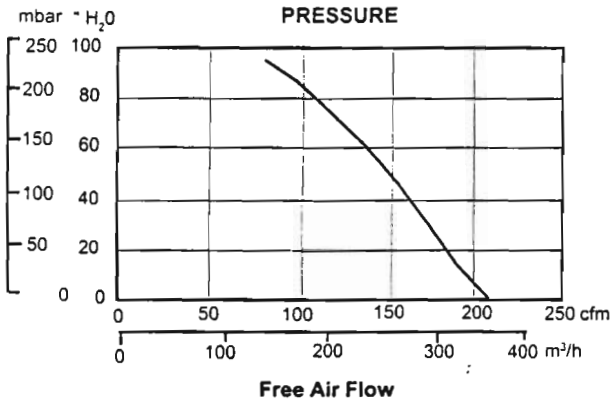
Product Specifications

Recommended NEMA starter size for motor -2

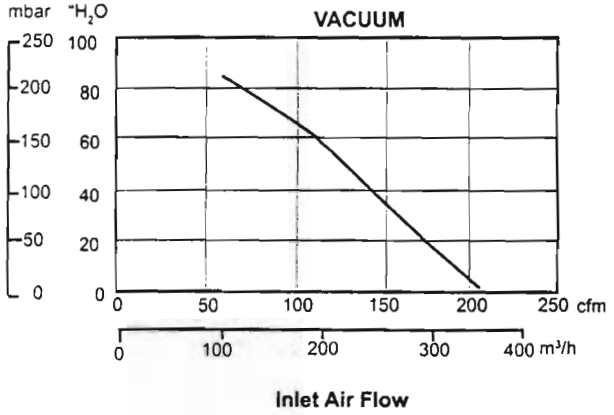
Specifications subject to change without notice.

Model Number	Motor Specs	Full Load Amps	Locked Rotor Amps	Hp	kW	RPM	Max. Vacuum "H_2O	Max. Vacuum mbar	Max. Pressure "H_2O	Max. Pressure mbar	Max. Flow cfm	Max. Flow m^3h	Net Wt. lbs.	Net Wt. kg
R6150J-2	230-60-1	22.3	96	5	3,7	3450	85	212	95	237	210	357	112	50,8

Product Performance (Metric, U.S.)



Free Air Flow



Inlet Air Flow

Pressure vs. Air Temp Rise Over Ambient (°F)

In. H_2O	60 Hz
0	15
20	25
40	37
60	52
80	75
90	83
95	96

Pressure vs. K Watts Input

In. H_2O	60 Hz
0	1.6
20	2.1
40	2.6
60	3.2
80	3.8
90	4.1
95	4.3

Vacuum vs. Air Temp Rise Over Ambient (°F)

In. H_2O	60 Hz
0	17
20	25
40	35
60	52
80	91
85	105

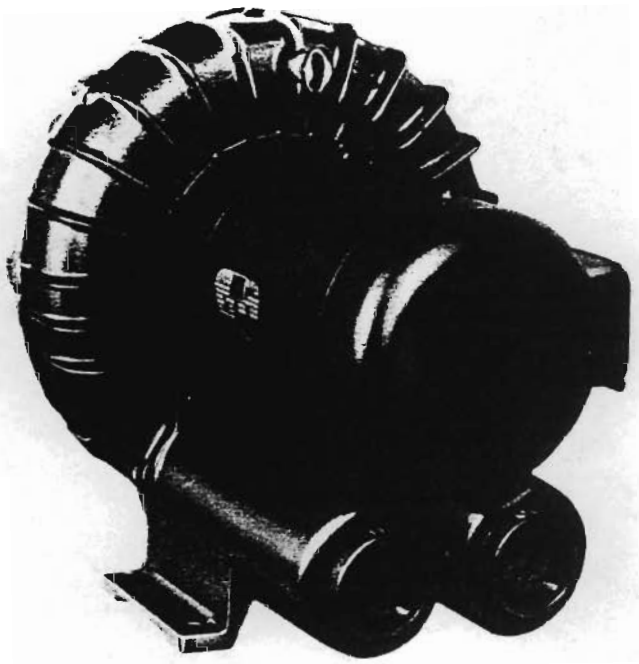
Vacuum vs. K Watts Input

In. H_2O	60 Hz
0	1.7
20	2.0
40	2.4
60	2.9
80	3.5
85	3.6

Oilless Regenerative Blower, Motor Mounted to 290 cfm

GAST

REGENAIR® R6P Series



MODEL R6P335A
30″ H_2O MAX. PRESSURE, 285 CFM OPEN FLOW
35″ H_2O MAX. VACUUM, 270 CFM OPEN FLOW

MODEL R6P350A
60″ H_2O MAX. PRESSURE, 290 CFM OPEN FLOW
70″ H_2O MAX. VACUUM, 270 CFM OPEN FLOW

MODEL R6P355A
110″ H_2O MAX. PRESSURE, 280 CFM OPEN FLOW
90″ H_2O MAX. VACUUM, 260 CFM OPEN FLOW

PRODUCT FEATURES

- Oilless operation
- TEFC motor mounted
- Can be mounted in any plane
- Rugged construction/low maintenance
- Class F insulation on motors

COMMON MOTOR OPTIONS

- 208-230/460V, 60 Hz; 190-220/380-415V, 50 Hz, three phase

RECOMMENDED ACCESSORIES

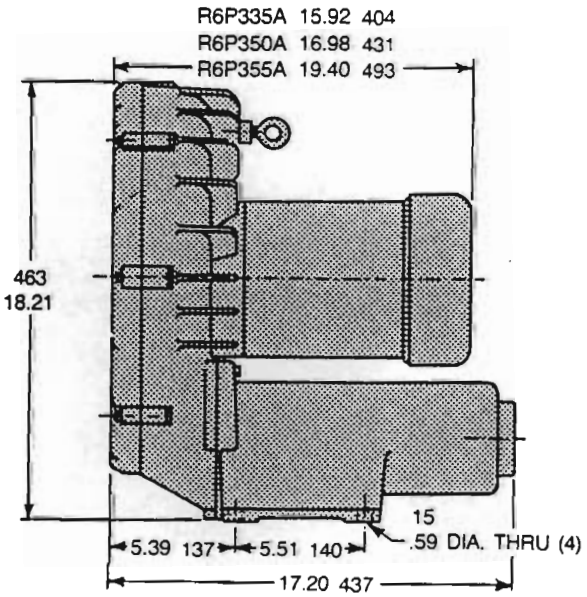
- Pressure gauge AE133
- Filter AJ126F (pressure)
- Vacuum gauge AE134
- In-line filter AJ151G (vacuum)
- Muffler AJ121F
- Relief valve AG258
- Nema motor starter size – 0/0 (R6P335A), 1/0 (R6P350A, R6P355A), for 60 Hz operation
- Moisture separator RMS300 (vacuum)

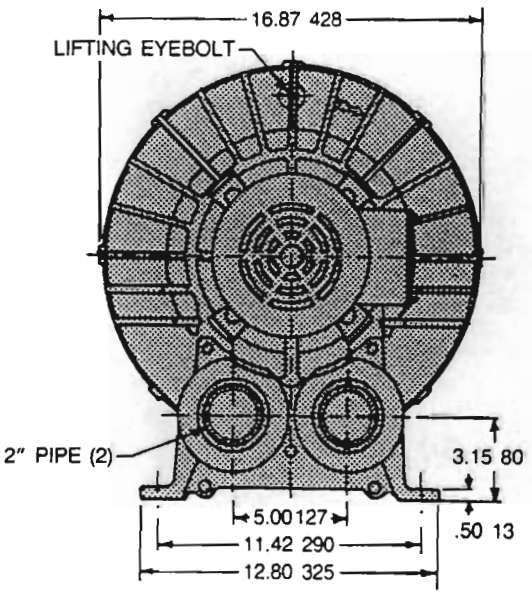
Various brand name motors are used on any model at the discretion of Gast Mfg. Corp.

Important Notice:

Pictorial, performance and dimensional data is subject to change without notice.

Product Dimensions Metric (mm) U.S. Imperial (inches)





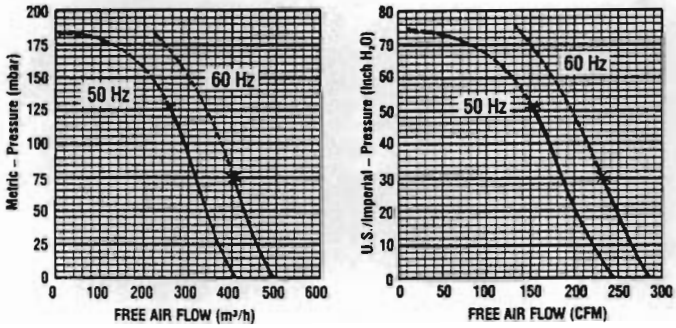
Product Specifications

Model Number	Motor Specs	Full Load Amps	Locked Rotor Amps	HP	RPM	Max Vac		Max Pressure		Max Flow		Net Wt.	
						"H_2O	mbar	"H_2O	mbar	cfm	m^3h	lbs.	kg
R6P335A	190-220/380-415-50-3	8-8/4-3.9	50 @ 460V	2.5	2850	60	149	50	125	245	416	150	68
	208-230/460-60-3	9.7-8.8/4.4		3.5	3450	35	87	30	75	285	484		
R6P350A	190-220/380-415-50-3	14.4-13.4/7.2-6.8	125 @ 230V	4.8	2850	70	174	70	174	245	416	176	80
	208-230/460-60-3	13.0-12.0/6.0		5	3450	70	174	60	149	290	493		
R6P355A	190-220/380-415-50-3	14.2-13.4/7.1	83 @ 460V	5	2850	70	174	85	212	235	399	215	98
	208-230/460-60-3	19.5-18.2/9.1		5.5	3450	90	224	110	274	280	476		

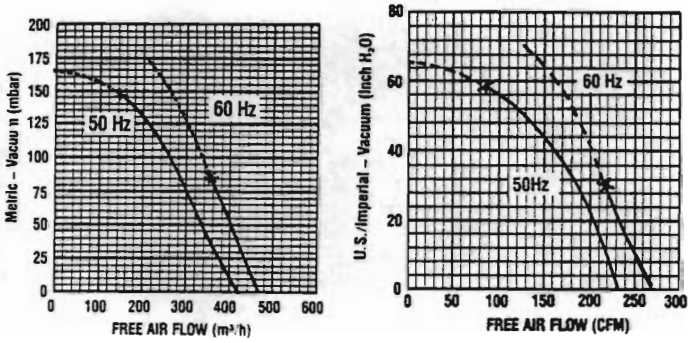
Product Performance (Metric U.S. Imperial)

R6P335A

Pressure

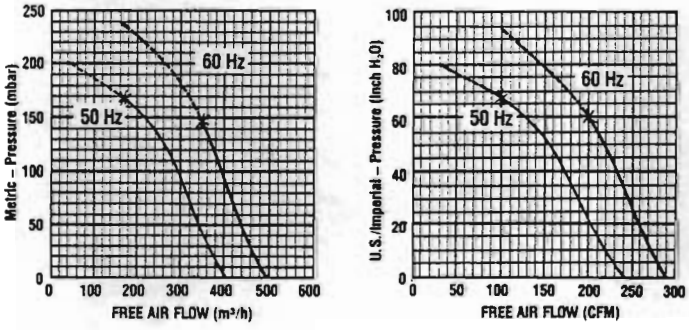


Vacuum



R6P350A

Pressure



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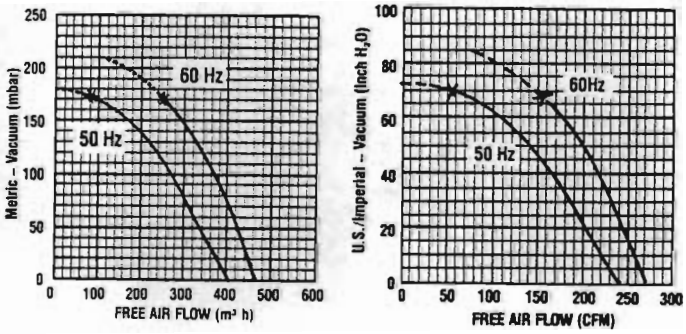
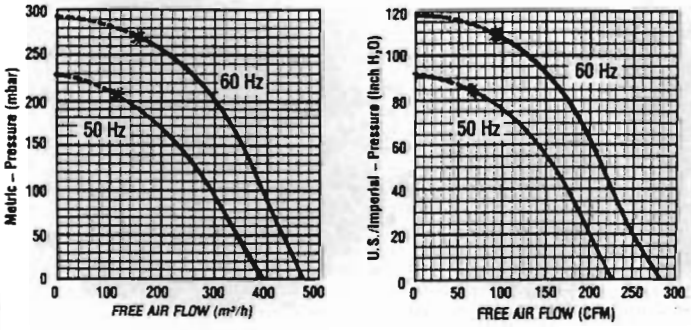
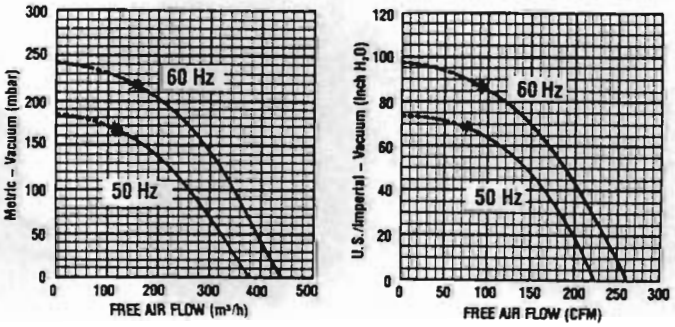


R6P355A

Pressure



Vacuum



*Recommended maximum duty.

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READ THESE INSTRUCTIONS THOROUGHLY BEFORE STARTUP. IMPROPER STARTUP COULD RESULT IN AN UNSAFE CONDITION.

INSTALLATION & OPERATING INSTRUCTIONS CARBTROL® VAPOR PHASE CANISTERS

CANISTER PREPARATION

When vapors contact activated carbon, the bed temperature may increase due to water vapor and contaminant chemical heat of adsorption.

Where organic contaminant concentrations above 500 ppm_V are expected, contact Carbtrol Corp. for evaluation of the potential for heat buildup.

When the Carbtrol canister is initially installed, maintain a continuous air flow through the canister for the first 24 hours of operation, and monitor the effluent gas temperature. A rise in the gas temperature of greater than 50°F is an indication of excessive heat generation. Under these conditions, the unit should be removed from service and the cause of the excessive heat generation should be determined.

Where the reaction of the contaminated gas stream with activated carbon is unknown, Carbtrol recommends thoroughly wetting the carbon with water prior to startup. The following procedure is recommended for wetting the carbon bed:

> Remove the plastic shipping plugs from the inlet and outlet ports. Insert a hose into the outlet port and fill the canister with water. The filled canister must be allowed to stand for at least one hour.
>
> Remove the water before the canister is put into service using the 3/4" drain bung located in the lower side of the canister. Close the 3/4" drain bung before putting the canister into operation.

INSTALLATION

To put the Carbtrol canister into service, place the canister in an accessible area, preferably close to the exhaust vent to be treated. Connect a full size process exhaust vent hose to the canister inlet port. Where required, a full sized vent line can be connected to the canister outlet port to direct treated gases from the immediate area.

Carbtrol canisters are not to be used for explosive gas applications. Where upset conditions may cause exceedence of the LEL (lower explosive limit), flame arresters and/or nitrogen blanketing of the process should be considered.

OPERATION

As the contaminated process exhaust gas passes through the canister, the granular activated carbon adsorbs the impurities while the purified process gas is discharged from the canister. After continued use, the carbon will become saturated with impurities and will require replacement.

Gas discharging from the canister should be tested regularly to determine when the carbon bed is nearing saturation. Properly scheduled testing of the discharge gas will indicate when breakthrough has occurred and the canister should be changed. To insure that additional canisters are immediately available, a replacement Carbtrol canister should be kept in stock.

The capacity of the activated carbon varies with the type and concentration of impurities in the gases handled. Therefore, the determination of effective canister life for a specific use will come with the practical experience of using it under a specific set of operating conditions.

Operating pressure for Carbtrol canisters should not exceed 10 psig.

Install appropriate shipping plugs and follow all State and Federal EPA Regulations when regenerating or disposing of spent carbon canisters.

WARNING:

A. Activated carbon can react adversely with some contaminants, which can cause excessive heat buildup. If the effect of the contaminant you wish to treat on activated carbon is unknown, then it must first be tested.

B. The initial heat of adsorption that occurs when vapors first contact activated carbon causes a rise of temperature in the carbon bed. As recommended above, maintained air flow or wetting of the carbon bed will minimize the initial heat buildup.

C. Carbtrol canisters should not be used with flammable vapors or flammable gas mixtures.

D. Activated carbon depletes oxygen in enclosed spaces. Follow NIOSH guidelines for safety in enclosed spaces.

WARRANTY

This product is designed to remove toxic pollutants from air. However, there is no assurance of its capacity. SELLER WARRANTS THAT THE GOODS ARE AS DESCRIBED. BUT NO OTHER IS GIVEN, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Seller will not be liable for loss or damage to property or any incidental or consequential loss or expense from property damage due directly or indirectly from the use of the product.

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READ THESE INSTRUCTIONS THOROUGHLY BEFORE STARTUP. IMPROPER STARTUP COULD RESULT IN AN UNSAFE CONDITION.

INSTALLATION AND OPERATING INSTRUCTIONS G-6 VAPOR PHASE CARBTROL® ADSORBERS

ADSORBER PREPARATION

When vapors contact activated carbon, the bed temperature may increase due to water vapor and contaminant chemical heat of adsorption.

Where organic concentrations above 500 ppm_V are expected, contact Carbtrol Corp. for evaluation of the potential for heat buildup.

When the Carbtrol adsorber is initially installed, maintain a continuous air flow through the adsorber for the first 24 hours of operation, and monitor the effluent gas temperature. A rise in the gas temperature of greater than 50°F is an indication of excessive heat generation. Under these conditions, the unit should be removed from service and the cause of the excessive heat generation should be determined.

Where the reaction of the contaminated gas stream with activated carbon is unknown, Carbtrol recommends thoroughly wetting the carbon with water prior to startup. The following procedure is recommended for wetting the carbon bed:

> Remove the plastic shipping plugs from the inlet and outlet ports. Insert a hose into the outlet port and fill the adsorber with water. The filled adsorber must be allowed to stand for at least one hour.
>
> Remove the water before the adsorber is put into service using the 1" bottom drain coupling. Replace the 3/4" drain plug before putting the adsorber into operation.

INSTALLATION

To put the Carbtrol G-6 Adsorber into service, place the adsorber on a well drained, level grade or concrete pad in an accessible area, preferably close to the exhaust vent to be treated. Connect a full size pipe or hose from the process exhaust to the inlet port. Where required, a full sized vent line can be connected to the adsorber outlet port to direct treated gases from the immediate area.

Before operating the G-6 Adsorber, a minimum size 8 AWG copper grounding cable should be connected between thte cable clamp provided on the adsorber support steel, and the building electrical grounding system. If a grounding system is not available, this grounding cable should be connected to a suitably driven ground rod. (See N.E.C. Section 250.83).

Carbtrol adsorbers are not to be used for explosive gas applications. Where upset conditions may cause exceedence of the LEL (lower explosive limit), flame arresters and/or nitrogen blanketing of the process should be considered.

OPERATION

As the contaminated process exhaust gas passes through the adsorber, the granular activated carbon adsorbs the impurities while the purified process gas is discharged from the adsorber. After continued use, the carbon will become saturated with impurities and will require replacement.

Gas discharging from the G-6 Adsorber should be tested regularly to determine when the carbon bed is nearing saturation. Properly scheduled testing of the discharge gas will indicate when breakthrough has occurred and the adsorber should be changed.

The capacity of the activated carbon varies with the type and concentration of impurities in the gases handled. Therefore, the determination of effective adsorber life for a specific use will come with the practical experience of using it under a specific set of operating conditions.

It is recommended that an additional G-6 Adsorber be kept on site, so that when breakthrough of the on-line adsorber occurs, a replacement unit is readily available.

If it is required that the spare G-6 Adsorber should be arranged as a fully piped and ready stand-by unit to allow immediate use, a pipe and valve assembly can be provided to accomplish this switchover and adsorber changeout. Contact the factory for details.

Operating pressure for CARBTROL G-6 Adsorbers should not exceed 9 psig.

Install appropriate shipping plugs and follow all State and Federal EPA regulations when re-shipping spent carbon adsorbers.

WARNING:

A. Activated carbon can react adversely with some contaminants, which can cause excessive heat buildup. If the effect of the contaminant you wish to treat on activated carbon is unknown, then it must first be tested.

B. The initial heat of adsorption that occurs when vapors first contact activated carbon causes a rise of temperature in the carbon bed. As recommended above, maintained air flow or wetting of the carbon bed will minimize the initial heat buildup.

C. Carbtrol adsorbers should not be used with flammable vapors or flammable gas mixtures.

D. Activated carbon depletes oxygen in enclosed spaces. Follow NIOSH guidelines for safety in enclosed spaces.

WARRANTY

This product is designed to remove toxic pollutants from air. However, there is no assurance of its capacity. SELLER WARRANTS THAT THE GOODS ARE AS DESCRIBED. BUT NO OTHER WARRANTY IS GIVEN, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Seller will not be liable for loss or damage to property or any incidental or consequential loss or expense from property damage due directly or indirectly from the use of the product.

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INSTALLATION AND OPERATING INSTRUCTIONS CARBTROL® VAPOR PHASE CANISTERS WITH POTASSIUM HYDROXIDE IMPREGNATED CARBON

CANISTER PREPARATION

When vapors first contact the impregnated carbon, the bed temperature may increase due to the initial heat of adsorption. Maintaining a continuous air flow through the canister for the first 24 hours of canister use will diffuse any heat buildup. If it is not possible to maintain air flow through the canister for the initial 24 hours of operation, consult Carbtrol for specific startup recommendations.

INSTALLATION

To put the Carbtrol canister into service, place the canister in an accessible area, preferably close to the exhaust vent to be treated. Connect a full size process exhaust vent hose to the canister inlet port. Where required, a full sized vent line can be connected to the canister outlet port to direct treated gases from the immediate area.

OPERATION

As the contaminated process exhaust gas passes through the canister, the impregnated granular activated carbon adsorbs the impurities while the purified process gas is discharged from the canister. After continued use, the impregnated carbon will become saturated with impurities and will require replacement.

Gas discharging from the canister should be tested regularly to determine when the carbon bed is nearing saturation. Properly scheduled testing of the discharge gas will indicate when breakthrough has occurred and the canister should be changed. To insure that additional canisters are immediately available, a replacement Carbtrol canister should be kept in stock.

The capacity of the impregnated activated carbon varies with the type and concentration of impurities in the gases handled. Therefore, the determination of effective canister life for a specific use will come with the practical experience of using it under a specific set of operating conditions.

Operating pressure for CARBTROL® canisters should not exceed 10 psig.

Install appropriate shipping plugs and follow all State and Federal EPA Regulations when disposing of spent carbon canisters.

WARNING:

A. Activated carbon has been known to react adversely with some contaminants. If the effect of the contaminant you wish to treat on activated carbon is unknown, then it must first be tested.

B. The initial heat of adsorption that occurs when vapors first contact impregnated activated carbon causes a rise of temperature in the carbon bed. As recommended above, maintained air flow will minimize the initial heat buildup.

C. Wet impregnated activated carbon can cause skin burns.

D. Carbtrol plastic canisters are not recommended for use with flammable vapors or flammable gas mixtures.

E. Activated carbon depletes oxygen in enclosed spaces. Follow NIOSH guidelines for safety in enclosed spaces.

WARRANTY

This product is designed to remove toxic pollutants from air. However, there is no assurance of its capacity. SELLER WARRANTS THAT THE GOODS ARE AS DESCRIBED, BUT NO OTHER WARRANTY IS GIVEN, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Seller will not be liable for loss or damage to property or any incidental or consequential loss or expense from property damage due directly or indirectly from the use of the product.

	A	B	C	D	E	F
1	Imperial Cleaners			SVES Monitoring Log Sheet		
2	218 Lakeville Road					
3	Lake Success, NY					
4						
5	Date	Vacuum at	PID Reading	PID Reading	PID Reading	Comments
6		Blower	Before Carbon	Btwn 1 and 2	After 2nd	
7				Carbon Units	Carbon Unit	
8						
9						
10						
11						
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	A	B	C	D	E	F	G
1	Imperial Cleaners			Air Sparging System Log Sheet			
2	218 Lakeville Road						
3	Lake Success, NY						
4							
5	Date	Pressure	Clock	Checked fluid	Changed	Replaced	Comments
6		Settings	Setting	lubricant level	lubricanting fluid	filter	
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Community Air Monitoring Plan
(Ground Intrusive Activities)

Real-time air monitoring, for volatile compounds and particulate levels at the perimeter of the work area is necessary. The plan must include the following:

- Volatile organic compounds must be monitored at the downwind perimeter of the work area on a **continuous** basis. If total organic vapor levels exceed 5 ppm above background, work activities must be halted and monitoring continued under the provisions of a Vapor Emission Response Plan. All readings must be recorded and be available for State (DEC & DOH) personnel to review.

- Particulates should be continuously monitored upwind, downwind and within the work area at temporary particulate monitoring stations. If the downwind particulate level is 150 $\mu g/m^3$ greater than the upwind particulate level, then dust suppression techniques must be employed. All readings must be recorded and be available for State (DEC & DOH) personnel to review.

Vapor Emission Response Plan

If the ambient air concentration of organic vapors exceeds 5 ppm above background at the perimeter of the work area, activities will be halted and monitoring continued. If the organic vapor level decreases below 5 ppm above background, work activities can resume. If the organic vapor levels are greater than 5 ppm over background but less than 25 ppm over background at the perimeter of the work area, activities can resume provided:

- the organic vapor level 200 feet downwind of the work area or half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm over background.

If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. When work shutdown occurs, downwind air monitoring as directed by the Safety Officer will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

Community Air Monitoring Plan
(Ground Intrusive Activities)

Major Vapor Emission

If any organic levels greater than 5 ppm over background are identified 200 feet downwind from the work area or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted.

If, following the cessation of the work activities, or as the result of an emergency, organic levels persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the work area, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If efforts to abate the emission source are unsuccessful and if the following levels persist for more than 30 minutes in the 20 Foot Zone, then the Major Vapor Emission Response Plan shall automatically be placed into effect;

- if organic vapor levels are approaching 5 ppm above background.

However, the Major Vapor Emission Response Plan shall be immediately placed into effect if organic vapor levels are greater than 10 ppm above background.

Major Vapor Emission Response Plan:

Upon activation, the following activities will be undertaken:

1. All Emergency Response Contacts as listed in the Health and Safety Plan of the Work Plan will be notified.

2. The local police authorities will immediately be contacted by the Safety Officer and advised of the situation.

3. Frequent air monitoring will be conducted at 30 minutes intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the Safety Officer.

H:\CAMPGRIN.WPD

New York State Department of Environmental Conservation

MEMORANDUM

TO: Regional Hazardous Waste Remediation Engrs., Bur. Directors & Section Chiefs
FROM: Michael J. O'Toole, Jr., Director, Division of Hazardous Waste Remediation
SUBJECT: DIVISION TECHNICAL AND ADMINISTRATIVE GUIDANCE MEMORANDUM--FUGITIVE DUST SUPPRESSION AND PARTICULATE MONITORING PROGRAM AT INACTIVE HAZARDOUS WASTE SITES
DATE: OCT 2 7 1989

1. Introduction

Fugitive dust suppression, particulate monitoring, and subsequent action levels for such must be used and applied consistently during remedial activities at hazardous waste sites. This guidance provides a basis for developing and implementing a fugitive dust suppression and particulate monitoring program as an element of a hazardous waste site's health and safety program.

2. Background

Fugitive dust is particulate matter--a generic term for a broad class of chemically and physically diverse substances that exist as discrete particles, liquid droplets or solids, over a wide range of sizes--which becomes airborne and contributes to air quality as a nuisance and threat to human health and the environment.

On July 1, 1987, the United States Environmental Protection Agency (USEPA) revised the ambient air quality standard for particulates so as to reflect direct impact on human health by setting the standard for particulate matter less than ten microns in diameter (PM_{10}); this involves fugitive dust whether contaminated or not. Based upon an examination of air quality composition, respiratory tract deposition, and health effects, PM_{10} is considered conservative for the primary standard--that requisite to protect public health with an adequate margin of safety. The primary standards are 150 ug/m^3 over a 24-hour averaging time and 50 ug/m^3 over an annual averaging time. Both of these standards are to be averaged arithmetically.

There exists real-time monitoring equipment available to measure PM_{10} and capable of integrating over a period of six seconds to ten hours. Combined with an adequate fugitive dust suppression program, such equipment will aid in preventing the off-site migration of contaminated soil. It will also protect both on-site personnel from exposure to high levels of dust and the public around the site from any exposure to any dust. While specifically intended for the protection of on-site personnel as well as the public, this program is not meant to replace long-term monitoring which may be required given the contaminants inherent to the site and its air quality.

3. Guidance

A program for suppressing fugitive dust and monitoring particulate matter at hazardous waste sites can be developed without placing an undue burden on remedial activities while still being protective of health and environment. Since the responsibility for implementing this program ultimately will fall on the party performing the work, these procedures must be incorporated into appropriate work plans. The following fugitive dust suppression and particulate monitoring program will be employed at hazardous waste sites during construction and other activities which warrant its use:

(1) Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

(2) Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Such activities shall also include the excavation, grading, or placement of clean fill, and control measures therefore should be considered.

(3) Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM_{10}) with the following minimum performance standards:

Object to be measured: Dusts, Mists, Aerosols
Size range: <0.1 to 10 microns
Sensitivity: 0.001 mg/m^3
Range: 0.001 to 10 mg/m^3
Overall Accuracy: ±10% as compared to gravimetric analysis of stearic acid or reference dust

Operating Conditions:
Temperature: 0 to 40°C
Humidity: 10 to 99% Relative Humidity

Power: Battery operated with a minimum capacity of eight hours continuous operation

Automatic alarms are suggested.

Particulate levels will be monitored immediately downwind at the working site and integrated over a period not to exceed 15 minutes. Consequently, instrumentation shall require necessary averaging hardware to accomplish this task; the P-5 Digital Dust Indicator as manufactured by MDA Scientific, Inc. or similar is appropriate.

(4) In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the entity operating the equipment to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

(5) The action level will be established at 150 ug/m^3 over the integrated period not to exceed 15 minutes. While conservative, this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m^3, the upwind background level must be measured immediately using the same portable monitor. If the working site particulate measurement is greater than 100 ug/m^3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see Paragraph 7). Should the action level of 150 ug/m^3 be exceeded, the Division of Air Resources must be notified in writing within five working days; the notification shall include a description of the control measures implemented to prevent further exceedences.

(6) It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM_{10} at or above the action level. Since this situation has the potential to migrate contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

(7) The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

1. Applying water on haul roads.
2. Wetting equipment and excavation faces.
3. Spraying water on buckets during excavation and dumping.
4. Hauling materials in properly tarped or watertight containers.
5. Restricting vehicle speeds to 10 mph.
6. Covering excavated areas and material after excavation activity ceases.
7. Reducing the excavation size and/or number of excavations.

Experience has shown that utilizing the above-mentioned dust suppression techniques, within reason as not to create excess water which would result in unacceptable wet conditions, the chance of exceeding the 150 ug/m^3 action level at hazardous waste site remediations is remote. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

(8) If the dust suppression techniques being utilized at the site do not lower particulates to an acceptable level (that is, below 150 ug/m^3 and no visible dust), work must be suspended until appropriate corrective measures are approved to remedy the situation. Also, the evaluation of weather conditions will be necessary for proper fugitive dust control--when extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended.

There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require appropriate toxics monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

cc: E. Sullivan
D. Markell
A. DeBarbieri
C. Goddard
R. Tramontano
E. McCandless
A. Fossa
J. Kelleher
J. Colquhoun
M. Keenan
D. Ritter
Regional Directors
Regional Engineers
RSHWE
Reg. Citizen Participation Specs.

AMETEK®
ROTRON TECHNICAL MOTOR DIVISION
REGENERATIVE BLOWER GROUP

75 North Street
Saugerties, New York 12477
Phone: (914) 246-3401
Fax: (914) 246-3802

OPERATION & MAINTENANCE MANUAL

Air Flow Meter

Thank you for purchasing an AMETEK Rotron Flow Meter. When matched with the correct Rotron blower, and properly installed and maintained, this meter will quickly and accurately measure the pipe flow. To ensure good results, please take the time to read these instructions before starting the installation of your air flow meter.

Sizing for Optimal Efficiency

CURRENT MODELS		MODELS FOR RELEASE JUNE '97		FLOW RANGE (SCFM)	THREADS	LENGTH	WIDTH	GAUGE PART #	BODY STYLE
MODEL	PART #	MODEL	PART #						
FM20A030Q	550312	FM20C030Q	550599	6-30	2 0" 11.5 NPSC	6.94"	5.49"	550321	A
FM20A045Q	550313	FM20C045Q	550600	9-45				550322	
FM20A065Q	550314	FM20C065Q	550601	13-65				550323	
FM20A125Q	550256	FM20C125Q	550602	25-125		5.34"		550290	B
FM20A175Q	550255	FM20C175Q	550603	35-175				550291	
FM20A225Q	550254	FM20C225Q	550604	45-225				550292	
FM30A250Q	550259	FM30C250Q	550605	50-250	3.0" 8.0 NPSC	7.38"	7.62"	550293	C
FM30A350Q	550258	FM30C350Q	550606	70-350				550294	
FM30A475Q	550257	FM30C475Q	550607	95-475				550295	
FM40A450Q	550262	FM40C450Q	550608	90-450	4.0" 8.0 NPSC	7.68"	8.62"	550296	D
FM40A600Q	550261	FM40C600Q	550609	120-600				550297	
FM40A850Q	550260	FM40C850Q	550610	170-850				550298	

Installation

1. **Unpacking** – Open box carefully. Do not cut box open. Lift top packing material off. The air flow meter is placed between the two foam materials for protection.

2. **Piping** – The flow meter should be installed horizontally on the inlet side of the blower. Since this device is directional, please observe the flow direction arrow. Rotron suggests using a length of straight pipe equivalent to three to five pipe diameters prior to the meter for any elbows, valves, etc., unless there is a tee. If there is a tee, the suggested equivalent length is eight to ten pipe diameters. The flow meter should have two pipe diameters of straight pipe after the flow exits the meter before any elbows, tees, valves, etc.

3. **Continuous Service** – Moisture and debris should not be allowed to enter the tubes leading into the gauge, as it may affect the gauge. Orient the gauge between 10 o'clock and 2 o'clock when viewed from end. (See Figure 1).

   If the gauge does not read zero, gently press down on gauge cover while turning counterclockwise to remove cover. Zero the gauge with the allen wrench and reattach cover.

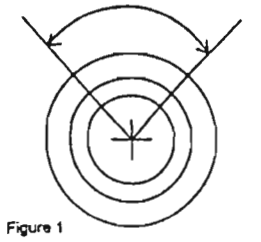
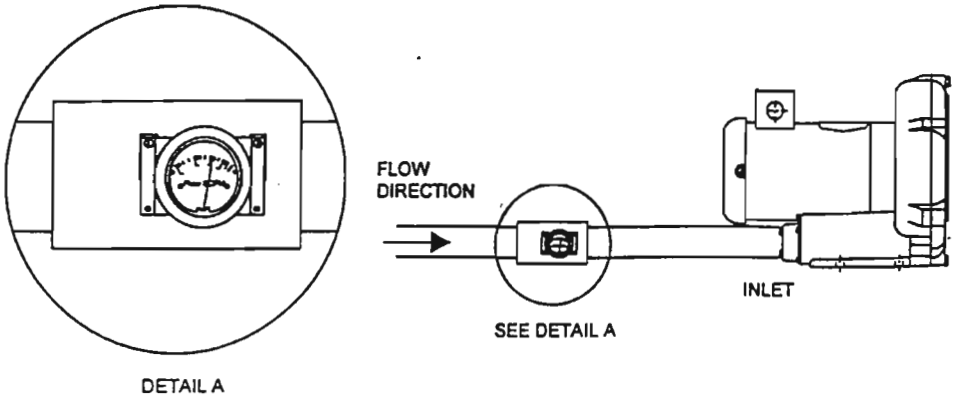


Figure 1

4. **Interchangeability** – Gauges are interchangeable within body styles, e.g., gauge 550321 and 550323. Gauges from different body styles are not interchangeable, e.g., gauge 550321 and 550290 or 550321 and 550293. Note the proper hose connections as shown in detail B.

Typical Arrangement



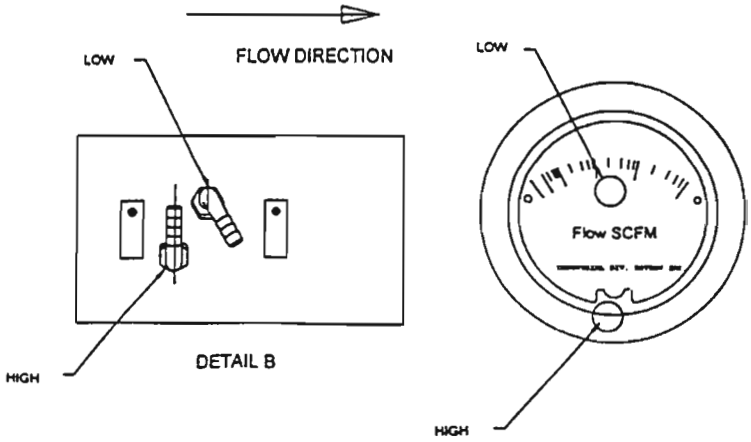
Operation

Rotron's Flow Meter is a venturi style design. After air enters the inlet, the pressure is measured in the high pressure tap. The second tap measures the pressure at the throat. The differential between the taps registers across a specially calibrated gauge to provide accurate readings. The throat is then expanded back to the original size to keep pressure loss to under 2-4 IWG.

Maintenance

This air flow meter has been designed to require minimal maintenance. During normal operation, little maintenance is required. Care should be taken to ensure no debris enters the meter.

If the tubes become plugged, remove and clean. Do not switch the low and high hoses. Note proper orientation of hoses.



If you have any questions regarding this product, contact your local sales representative or our Application Engineering Department at the factory.

AMETEK®
ROTRON TECHNICAL MOTOR DIVISION
REGENERATIVE BLOWER GROUP

75 North Street
Saugerties, New York 12477
Phone: (914) 246-3401
Fax: (914) 246-3802

OPERATION & MAINTENANCE MANUAL

Rotron Moisture Separator

Thank you for purchasing an AMETEK Rotron MS series moisture separator. When matched with the correct Rotron blower, and properly installed and maintained, this separator will effectively and efficiently remove moisture from the air stream. To ensure good results, please take the time to read these instructions before starting the installation of your moisture separator.

Sizing for Optimal Efficiency

Separator	Max. CFM	Max. Vac	Capacity	Blowers
MS200P(S)	200	12* IHg	7 gal.	EN101-EN555, EN513, EN523, EN623
MS200D(S)	200	22 IHg	10 gal.	EN101-EN555, EN513, EN523, EN623
MS300P(S)	300	12* IHg	7 gal.	EN606, EN6, EN707, EN823
MS300D(S)	300	22 IHg	10 gal.	EN606, EN6, EN707, EN823
MS350B(S)	350	22 IHg	40 gal.	EN808, EN1223
MS500B(S)	500	22 IHg	40 gal.	EN858
MS600B(S)	600	22 IHg	40 gal.	EN909
MS1000B(S)	1000	22 IHg	65 gal.	EN14
Note: "S" suffix denotes presence of XP high level switch. * Special Construction with 20 IHg capability available.				

Installation

1. **Unpacking** - For MS200/300, remove drain valve taped to packing material and box containing liquid level switch, if so equipped. For MS350/500/600, remove box containing valve hardware as well as box containing liquid level switch (if so equipped) and remove internal cardboard packaging and cable ties from screen assembly.

2. **Bolt Down** (w/ feet included) - For MS200/300 models, built-in feet or a mounting ring is included. It is recommended that these units be bolted in place. All models will only work in an upright position.

3. **Piping** - Attach to system piping with flexible couplings to minimize stress incurred by rigid system piping. The connections should be airtight but not sealed with an adhesive for ease of disassembly during routine maintenance. Install drain valve, using teflon tape on threads.

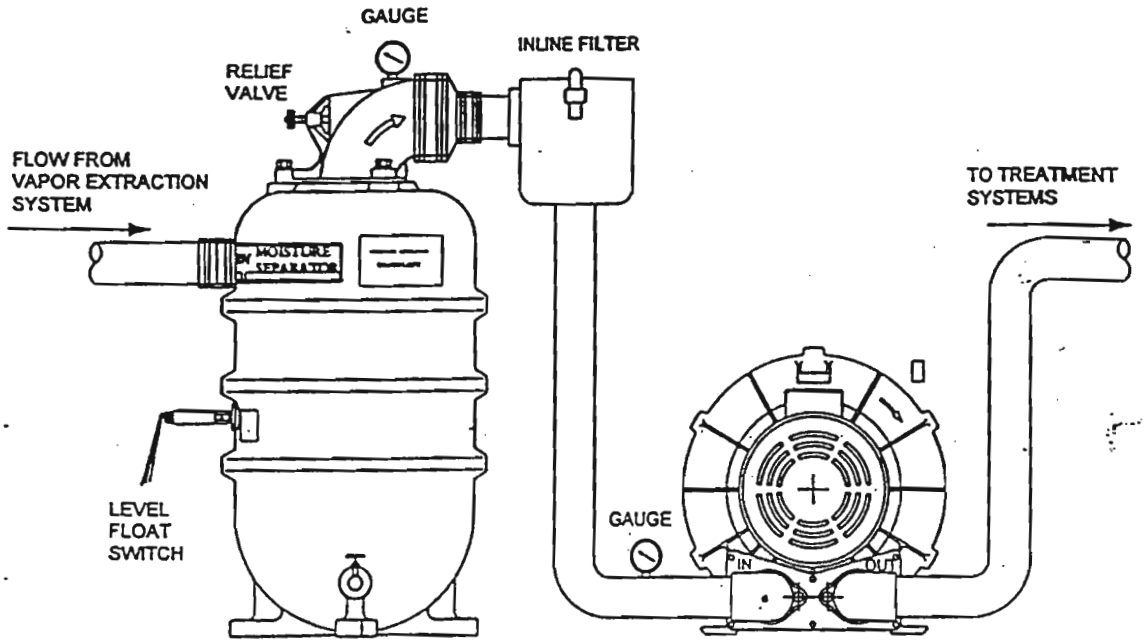
4. **Installation and Wiring of Liquid Level Switch** - Remove plug from the bulkhead fitting. Thread the switch by hand until snug with index arrow pointing down. Wire in accordance with the nameplate wiring schematic. Typically, the wiring is connected back to the starter to shut down the system but can be used for other purposes.

5. **Install/Adjust Relief Valve** - For MS500/600, first install the relief valve with teflon tape on threads. Use a wrench, but tighten only enough to prevent leakage. Next step for all MS units, back off the relief valve adjuster relaxing spring pressure. Then block the moisture separator inlet while measuring the motor current. Adjust the valve until the motor current is 90% of the max. nameplate blower amps.

6. **Continuous Service** - For cold weather service, appropriate steps should be taken to prevent freezing. Also, the maximum vacuum ratings are based on 115°F maximum. Consult factory for higher potential ambients.

Note: A moisture separator is not a substitute for an inline air filter. A Rotron inline filter should be used to remove particles that pass through the separator.

Typical Vapor Extraction System



Operation

Moisture-laden air enters the separator through the tangential inlet. Cyclonic action removes free moisture from the air stream and allows the air to discharge through the top of the separator. When the separator is full, the float valve shuts off the air flow through the separator, and the relief valve opens to limit the vacuum of the blower.

To drain the separator, turn off the blower and open the drain valve at the bottom of the separator. Caution: The liquid contained in the separator should be analyzed before it is released back into the environment. It may be considered hazardous waste in certain geographical areas and require special treatment/disposal. Once the liquid is drained, the unit can be reset by turning the blower back on.

Automatic draining options are at the discretion of the customer.

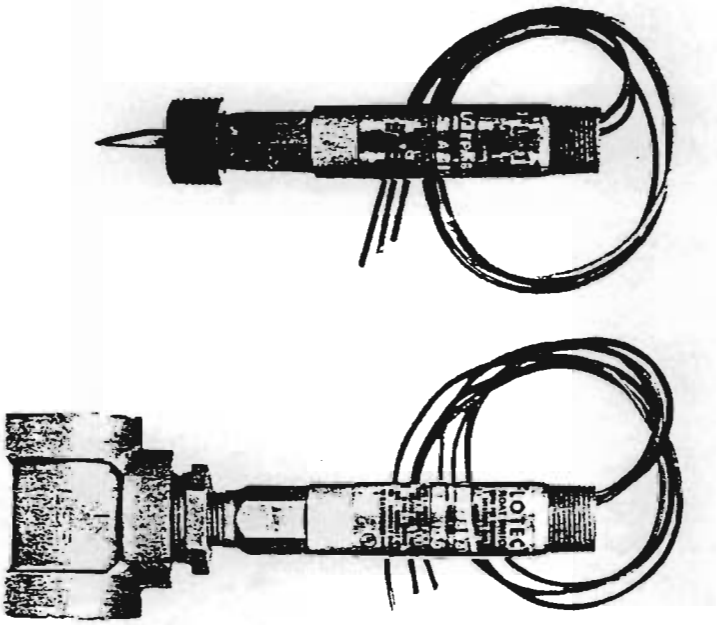
Maintenance

This MS series moisture separator has been designed to require minimal maintenance. During normal operation a layer of sludge may build up on the bottom of the separator. As necessary, the top assembly of the moisture separator should be removed and the inside cleaned out with water. Keeping the inside clean will prevent the valve from becoming clogged with sediment. The relief valve should be inspected upon emptying the separator and readjusted (per installation instruction 5) upon restart.

If you have any questions regarding this product, contact your local sales representative or our Application Engineering Department at the factory.

FLOTECT. MODEL L-6 FLOAT SWITCH

Installation and Operating Instructions



Explosion-Proof; U.L. and C.S.A. Listed -
Class I, Groups *A, B, C & D
Class II, Groups E, F & G
CENELEC: EExd IIC T6 (T amb=75°C)
*(Group A, stainless steel body only)

PHYSICAL DATA

Temperature Limit: 220°F (105°C) maximum
Maximum Pressure: See chart below
Switches: One or two SPDT snap switches
Electrical Rating: U.L.: 5A @ 125/250 VAC.
C.S.A. and CENELEC: 5A @ 125/250 VAC, 5A resistive, 3A inductive @ 30 VDC.
Optional ratings: MV option—Gold contacts for dry circuits. Rated 0.1A @ 125 VAC MT option: 400°F (205°C) 5A @ 125/250 VAC (not listed).
Wiring Connections: 3-18" (460mm) wire leads, 18 ga.
CENELEC models only: push-in type terminal blocks
Black = common, blue = N.O., red = N.C.
Minimum Specific Gravity:
Polypropylene float - 0.9
Round SS float - 0.7
Cylindrical SS float - 0.5
Switch Body: Brass 3/4" NPT conduit connection.
For SS switch body, change model no. to L6EPS.
Piping/Mounting Connection: 1" NPT
Installation: Horizontal, index arrow pointing down.
Weight: 1 lb. (.5 KG); w/external chamber 1-3/4 lb. (.8 KG)

WETTED MATERIALS CHART

Model	Brass	Bronze	Ceramic	Polypropylene	301SS	303SS	304SS
B-S-3-A	X		X		X		X
B-S-3-B	X	X	X	X	X		
B-S-3-C	X		X		X		X
B-S-3-H	X	X	X		X		X
B-S-3-O	X		X	X	X		
S-S-3-A			X	X	X		X
S-S-3-C			X		X	X	X
S-S-3-L			X		X	X	X
S-S-3-O			X	X	X	X	
S-S-3-S			X	X	X	X	

MAXIMUM PRESSURE CHART

Model Number	Float	Pressure Rating PSIG (KG/CM²)
L6EPB-B-S-3-A	Cylindrical SS	200 (14)
L6EPB-B-S-3-B	Polypropylene	250 (18)
L6EPB-B-S-3-C	Round SS	350 (25)
L6EPB-B-S-3-H	Round SS	250 (18)
L6EPB-B-S-3-O	Polypropylene	1000 (70)
L6EPB-S-S-3-A	Cylindrical SS	200 (14)
L6EPB-S-S-3-C	Round SS	350 (25)
L6EPB-S-S-3-L	Round SS	350 (25)
L6EPB-S-S-3-O	Polypropylene	2000 (140)
L6EPB-S-S-3-S	Polypropylene	2000 (140)

INSTALLATION:

Unpack switch and remove any packing material found inside lower housing or float chamber.

Switch must be installed with body in a horizontal plane and arrow on side pointing down.

If switch has an external float chamber (tee), connect it to vertical sections of 1" NPT pipe installed outside vessel walls at appropriate levels. If unit has no external float chamber, it must be mounted in a 1" NPT half coupling welded to the vessel wall. The coupling must extend through the wall.

Inspect and clean wetted parts at regular intervals.

ELECTRICAL CONNECTIONS:

Connect wire leads in accordance with local electrical codes and switch action required. N.O. contacts will close and N.C. contacts will open when liquid level causes float to rise. They will return to "normal" condition on decreasing liquid level. Black = common, Blue = N.O. and Red = N.C.

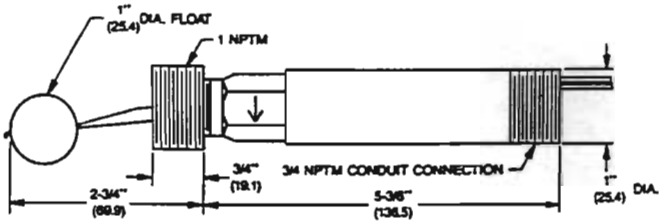
For units supplied with both internal and external grounds, the ground screw inside the housing must be used to ground the control. The external ground screw is for supplementary bonding when allowed or required by local code. Some CSA listed models are furnished with a separate green ground wire. Such units must be equipped with a junction box, not supplied but available on special order.

CENELEC certified models include a junction box. Cable should enter enclosure through an approved EX cable gland, not supplied. Push stripped and tinned leads into appropriate openings in terminal block(s). To connect fine stranded leads or to remove any wire, depress spring release with small screwdriver first.

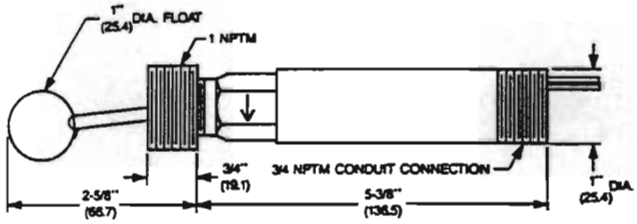
All wiring, conduit and enclosures must meet applicable codes for hazardous areas. Conduits and enclosures must be properly sealed. For outdoor or other locations where temperatures vary widely, precautions should be taken to prevent condensation inside switch or enclosure. Electrical components must be kept dry at all times. **CAUTION:** To prevent ignition of hazardous atmospheres, disconnect the device from the supply circuit before opening. Keep assembly tightly closed when in use.

Dimensions on reverse

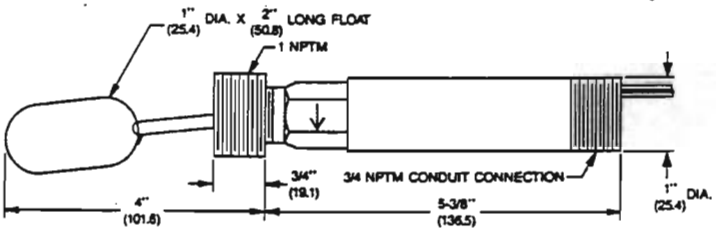
FLOTECT MODEL L-6 FLOAT SWITCH — DIMENSION DRAWINGS



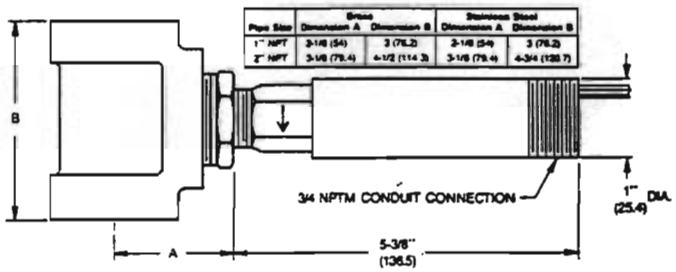
Polypropylene Float



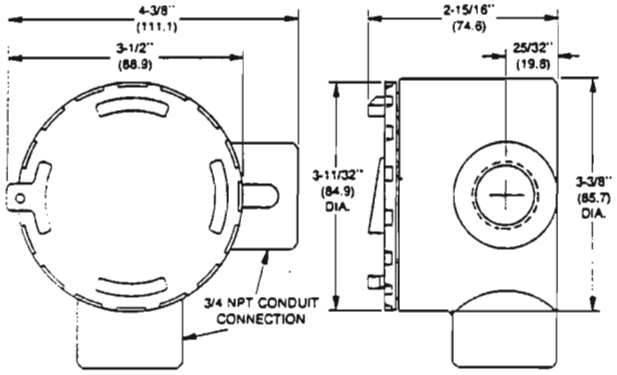
Round Stainless Steel Float



Cylindrical Stainless Steel Float



With External Float Chamber (Tee)



CSA, CENELEC Conduit Enclosure

Limited Warranty: The Seller warrants all Dwyer instruments and equipment to be free from defects in workmanship or material under normal use and service for a period of one year from date of shipment. Liability under this warranty is limited to repair or replacement F.O.B. factory of any parts which prove to be defective within that time or repayment of the purchase price at the Seller's opinion provided the instruments have been returned, transportation prepaid, within one year from the date of purchase. All technical advice, recommendations and services are based on technical data and information which the Seller believes to be reliable and are intended for use by persons having skill and knowledge of the business, at their own discretion. In no case is Seller liable beyond replacement of equipment F.O.B. factory or the full purchase price. This warranty does not apply if the maximum ratings label is removed or if the instrument or equipment is abused, altered, used at ratings above the maximum specified, or otherwise misused in any way.

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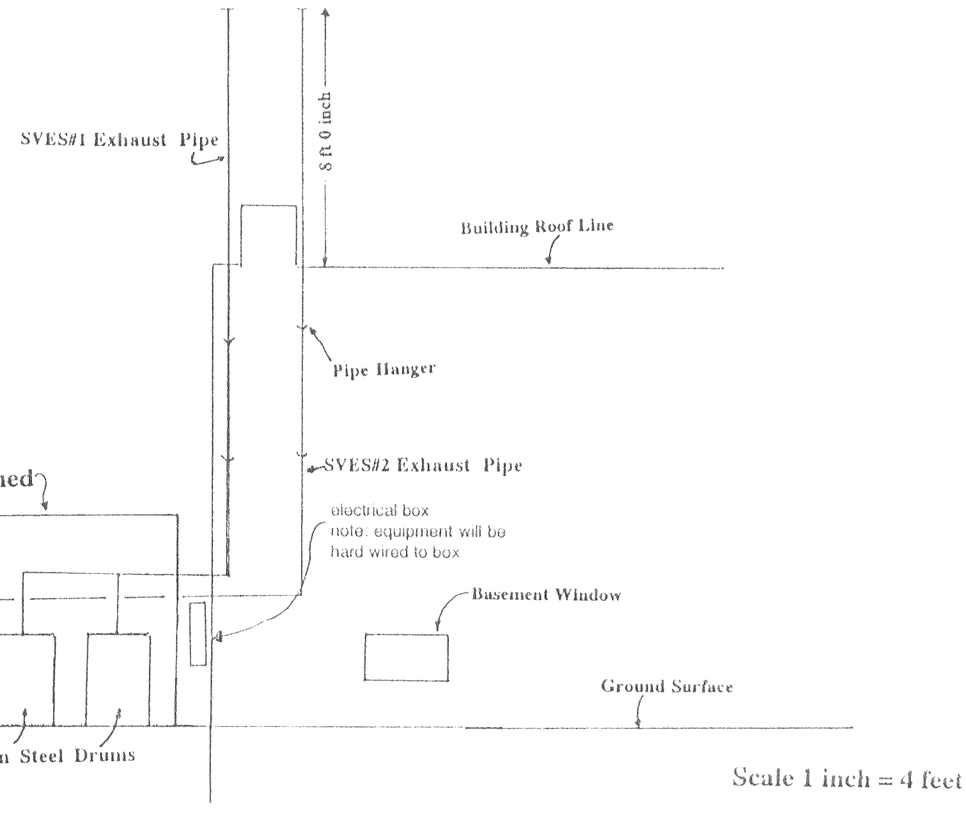
Buyers Remedies: THE BUYER'S EXCLUSIVE AND SOLE REMEDY ON ACCOUNT OF OR IN RESPECT TO THE FURNISHING OF NONCONFORMING OR DEFECTIVE MATERIAL SHALL BE TO SECURE REPLACEMENT THEREOF AS AFORESAID. THE SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED ON ANY SUCH MATERIAL OR FOR ANY SPECIAL, DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES TO ANYONE BY REASON OF THE FACT THAT IT SHALL HAVE BEEN NON-CONFORMING OR DEFECTIVE.

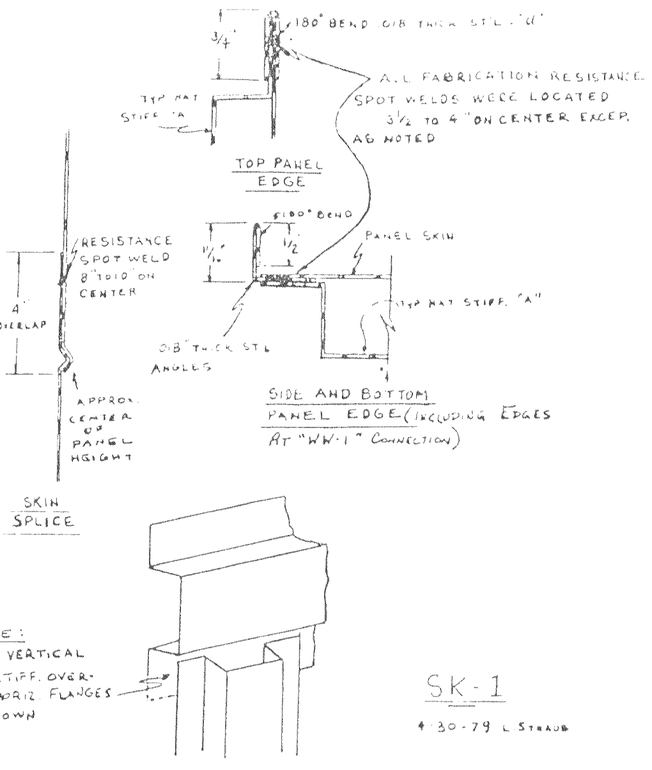
W.E. ANDERSON DIV., DWYER INSTRUMENTS, INC.
P.O. Box 338
Michigan City, IN 46360

FR 82-440726-00

Side View

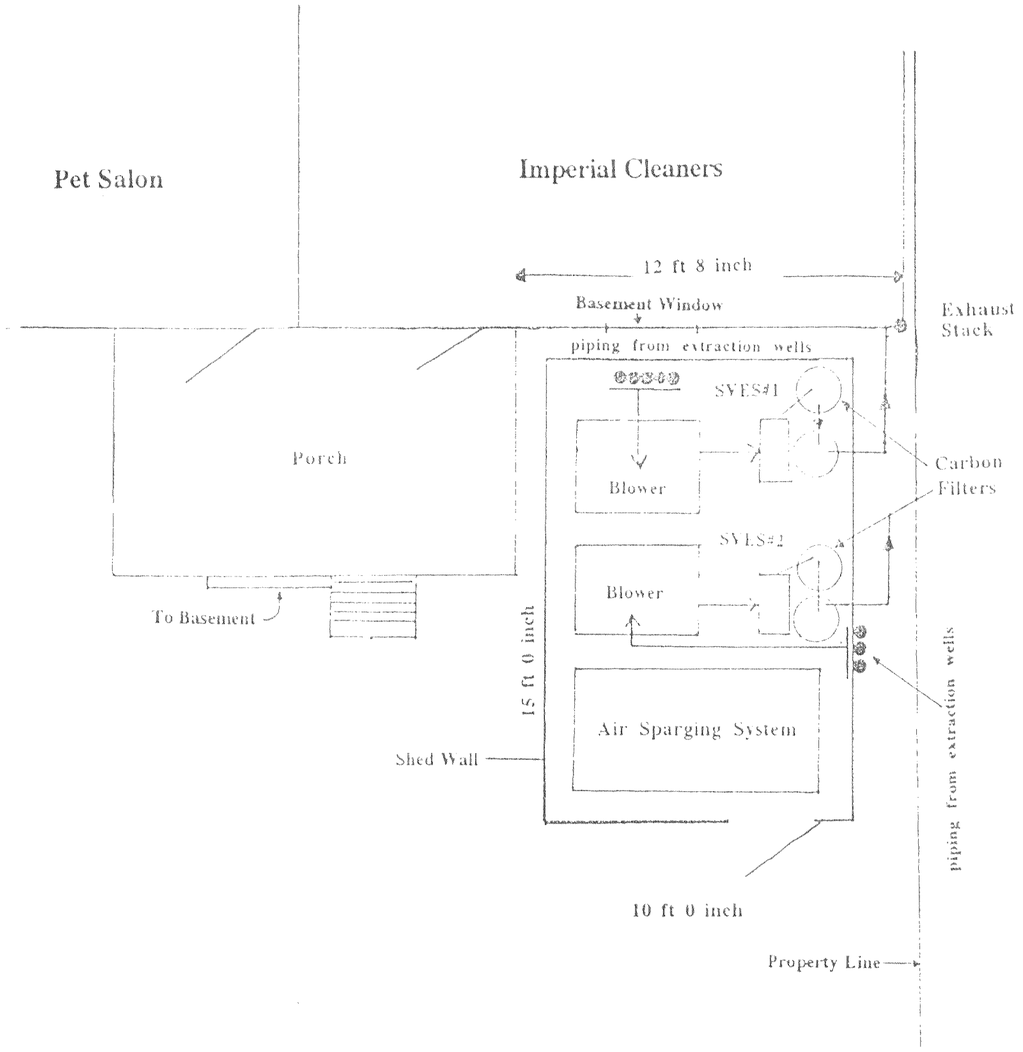


Scale 1 inch = 4 feet



Steel Shed Constructed by Man Products
10 feet 0 inch by 15 feet 0 inch
Steel Floor and Walls

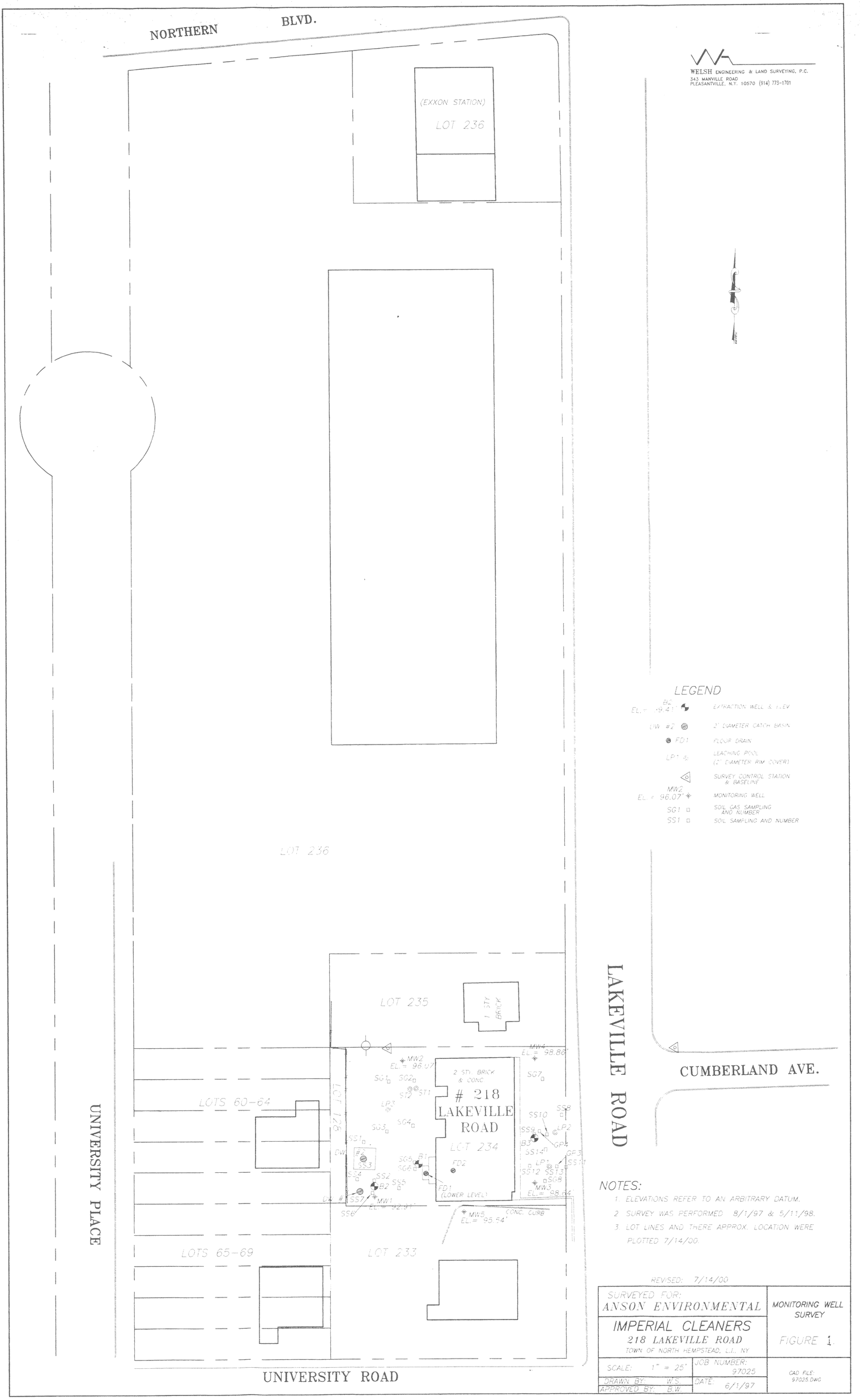
Aerial View



Scale 1 inch = 4 feet

Figure 17 Schematic diagram of exterior of soil vapor extraction system #1

scale as shown



LEGEND

EL.= +9.41' B1	EXTRACTION WELL & ELEV.
DW #2	2' DIAMETER CATCH BASIN
FD1	FLOUR DRAIN
LP1	LEACHING POOL (2' DIAMETER RIM COVER)
	SURVEY CONTROL STATION & BASELINE
MW2 EL.= 96.07'	MONITORING WELL
SG1	SOIL GAS SAMPLING AND NUMBER
SS1	SOIL SAMPLING AND NUMBER

NOTES:

1. ELEVATIONS REFER TO AN ARBITRARY DATUM.
2. SURVEY WAS PERFORMED 8/1/97 & 5/11/98.
3. LOT LINES AND THERE APPROX. LOCATION WERE PLOTTED 7/14/00.

WELSH ENGINEERING & LAND SURVEYING, P.C.
343 MANVILLE ROAD
PLEASANTVILLE, N.Y. 10570 (914) 773-1701

REVISED: 7/14/00

SURVEYED FOR: ANSON ENVIRONMENTAL		MONITORING WELL SURVEY
IMPERIAL CLEANERS 218 LAKEVILLE ROAD TOWN OF NORTH HEMPSTEAD, L.I., NY		FIGURE 1
SCALE: 1" = 25'	JOB NUMBER: 97025	CAD FILE: 97025.DWG
DRAWN BY: W.S.	DATE: 6/1/97	
APPROVED BY: B.W.		