INVESTIGATION WORK PLAN
FOR
WIN-HOLT EQUIPMENT CORPORATION SITE
592 BROOK STREET
GARDEN CITY, NEW YORK

NYSDEC VOLUNTARY CLEANUP PROGRAM

SITE # V00243-1

FOR SUBMITTAL TO

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PREPARED BY

FPM group

909 MARCONI AVENUE
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DECEMBER 2002

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FPM

SECTION 1.0
INTRODUCTION AND PURPOSE

This Investigation Work Plan (WP) has been prepared by FPM Group (FPM) for the New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) Site identified as Win-Holt Equipment Corporation (Win-Holt) located at 592 and 606 Brook Street in Garden City, New York (Site #V00243-1). This WP was developed to document proposed procedures to obtain additional information regarding subsurface conditions at the Site and also to evaluate potential groundwater receptors.

Impacted soil and groundwater have been identified at the Site based on the results of previous investigations and remediation has previously been performed to address impacted soil. Impacted groundwater extends downgradient of the Site and periodic groundwater monitoring has been performed. The extent of the groundwater impact has largely been delineated; the additional sampling is proposed to more fully delineate the downgradient extent of impacted groundwater. The scope of the investigation was previously presented in a June 6, 2002 WP. However, the scope has been revised to reflect subsequent comments by the NYSDEC. The WP has also been revised to reflect the NYSDEC's suggested format for VCP investigation WPs.

A description of pertinent aspects of the Site history is included in Section 2 of this WP together with a description of the environmental setting of the Site. Previous investigation results and remediation are also discussed in Section 2. The proposed scope of the investigation is described in Section 3 of this WP together with the field sampling procedures. A quality assurance/quality control (QA/QC) plan is also provided in Section 3. Finally, the proposed investigation schedule and reporting procedures are also discussed in Section 3. A Health and Safety Plan (HASP), including a Community Air Monitoring Plan, is included in Appendix B of this document.

SECTION 2.0
SITE BACKGROUND AND PREVIOUS INVESTIGATIONS/REMEDIATION

2.1 Environmental Setting

The regional topographic slope was obtained from the US Geological Survey, Freeport, NY 7.5-minute topographic quadrangle (1969, photorevised 1979). The topographic surface in the vicinity of the Site slopes gently to the southwest. There are no natural surface water bodies (streams, rivers, or lakes) within one mile downgradient of the Site. The elevation of the Site is approximately 75 feet above mean sea level (MSL) and the surface drainage is predominantly to the southwest, as controlled by topography in the Site vicinity. Since the surface grade at the Site is generally flat and the rear yard of the Site is unpaved, surface water in this area will likely infiltrate, although some surface water runoff may occur. The Site building roof drains are reported to be connected to the Nassau County storm sewer.

The surficial geology of the Site was obtained from US Geological Survey Water-Supply Paper 1613-A entitled "Geology and Ground-Water Conditions in Southern Nassau and Southeastern Queens Counties, Long Island, N.Y." (1963). The surface materials at the Site (prior to urbanization) consisted of glacial outwash deposits of the Wisconsinan glaciation. These deposits include stratified sand and gravel, which were deposited in meltwater stream channels and outwash plains.

The generalized regional geology of the Site area consists of a base of Precambrian crystalline bedrock predominantly composed of schist and gneiss overlain by the Cretaceous Raritan and Magothy Formations. The upper Pleistocene Glacial Deposits overlie the Magothy Formation in the Site vicinity. These deposits consist primarily of stratified sand, silt, and gravel outwash deposits and are approximately 100 feet thick beneath the Site.

There are two primary aquifers beneath the Site. The Upper Glacial Aquifer is a shallow water table aquifer and is associated with the upper Pleistocene Glacial Deposits. The depth to water in the Site area is approximately 25 feet and the base of the Upper Glacial Aquifer is approximately 100 feet below grade. Therefore, this aquifer has a saturated thickness of approximately 75 feet beneath the Site. The regional groundwater flow direction across the Site is generally to the southwest.

The deeper aquifer is the Magothy Aquifer, which underlies the Upper Glacial Aquifer. It is estimated to be approximately 400 feet thick in the Site area and is associated with the Magothy Formation.

The water table elevation and the regional flow direction in the vicinity of the Site were obtained from the September 1998 Nassau County Water Table Elevation map (NCDPW, 1999). The groundwater elevation at the Site is approximately 50 feet above MSL with a regional flow direction to the south-southwest and a regional horizontal gradient of 0.0017. Based on a surface elevation of approximately 75 feet, the depth to groundwater below ground surface at the Site is approximately 25 feet. This is consistent with the depth to groundwater measurements obtained during the previous investigations.

An estimate of the average hydraulic conductivity of the Upper Glacial Aquifer for the Site area is given in the U.S. Geological Survey Paper 627-E, "Water Transmitting Properties of Aquifers on Long Island, New York" (1972). The estimated average hydraulic conductivity for the Site area is 250 cubic feet per day per square foot ($ft^3/d/ft^2$). Using this estimated average hydraulic conductivity, a regional horizontal gradient of 0.0017, and an estimated average porosity of 0.3, the regional horizontal groundwater flow velocity may be estimated at 1.4 feet per day.

The Site is located in Nassau County, New York. The Nassau County climate is characterized as coastal, being influenced by the adjacent water masses. The prevailing wind directions are northeast and south, reflecting the dominance of the cold Arctic air masses in the winter and cooling ocean breezes in the summer. Rainfall averages between 42 and 45 inches per year (USGS, 1963). Water losses occur due to evapotranspiration and direct runoff with the remainder of the precipitation being recharged to the aquifers. This recharge predominately occurs in the late fall and early spring.

2.2 Site History

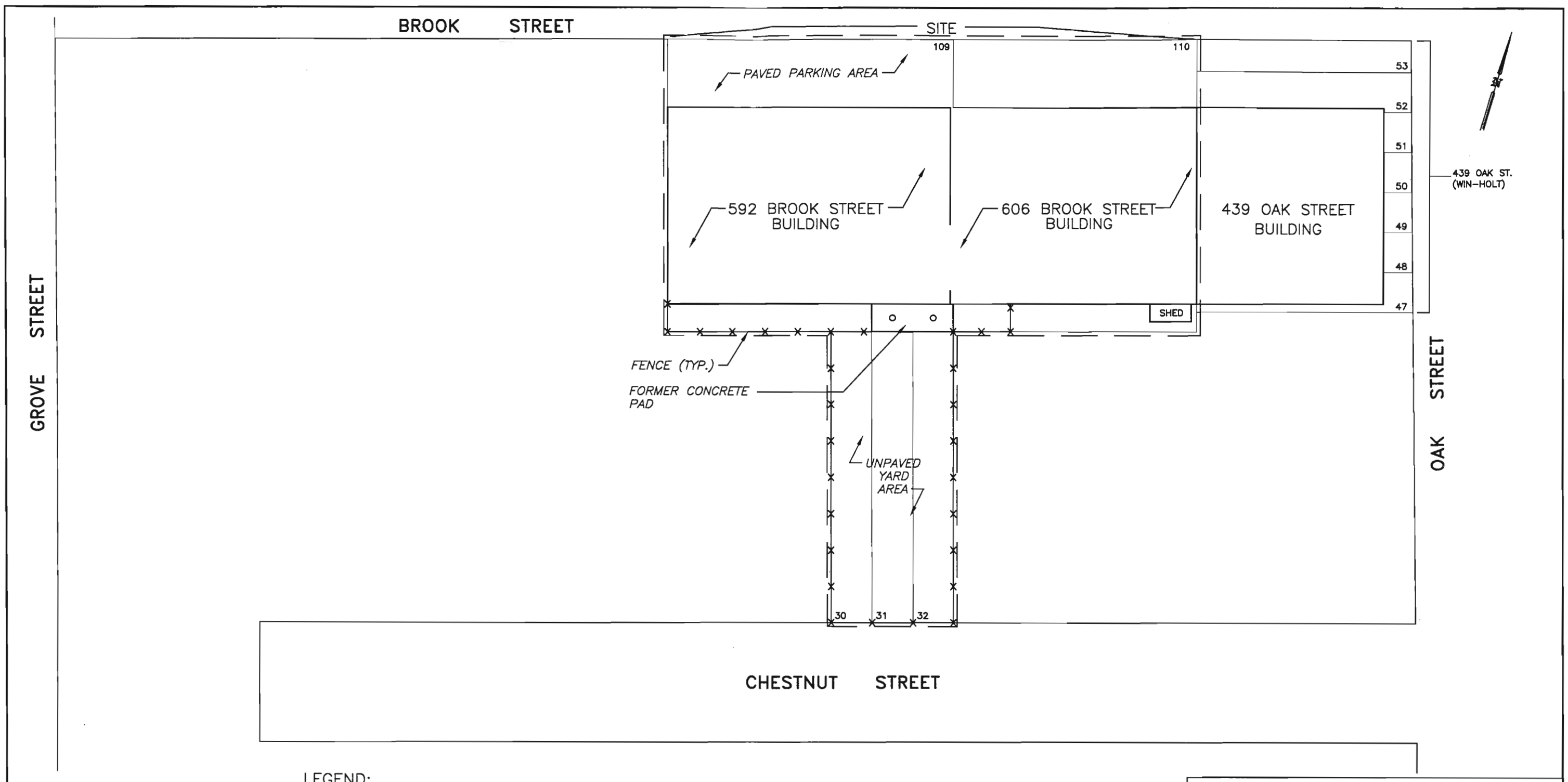
Information pertaining to the Site history was obtained from Mr. John McLaughlin, the Vice President of Win-Holt, the Town of Hempstead Building Department, the Nassau County Clerk's Office, the Nassau County Department of Public Works, the Nassau County Department of Health (NCDOH), and Site descriptions and photos included in previous investigation and remediation documents. This information is summarized below. Additional information was also requested from the Nassau County Fire Marshal. This

information had not been received at the time this work plan was prepared. If pertinent information is obtained at a later date, it will be evaluated and included in an addendum to this work plan.

The Site is located in a commercial and industrial area. Commercial and industrial buildings are located immediately to the north, east, south, and west of the Site. Further to the north, the Long Island Rail Road tracks are present. Nassau Community College and Nassau County Veterans Memorial Coliseum are located further to the east. Hofstra University and additional commercial and industrial developments are located further to the south. Further to the west is a residential area.

According to Mr. John McLaughlin, Win-Holt has operated at 592 and 606 Brook Street in Garden City for several years. A site plan depicted in Figure 2.2.1 shows the two buildings associated with the above addresses. Win-Holt also operates an adjoining building at 439 Oak Street. However, this building is not included in the Site. Based on information obtained from the Nassau County Clerk's Office, the 592 Brook Street address is assigned to the following Nassau County Tax Map numbers: Section 34, Block 112, Lots 109 and 30 through 32. Lot 109 was acquired by Win-Holt in 1967 from David Cohen and Lots 30 through 32 were acquired by Win-Holt in 1984 from Joseph Andrews, who had owned them since 1954. Town of Hempstead Building Department records indicate that a 15,960-square-foot brick and concrete-block building was constructed on Lot 109 starting in 1961 and was completed in approximately 1962. The building was reported to have been used for a warehouse. No tanks, floor drains, or other subsurface structures were shown on the site plans or plumbing plans for the building other than the four drywells connected to roof drains on the north side of the building. One set of bathrooms is shown on the plumbing plan and a sewer connection was noted. No buildings or other structures are reported to the Town of Hempstead Building Department for Lots 30 through 32.

Based on information provided by the Nassau County Clerk's Office, Section 34, Block 112, Lot 110 is assigned the address of 606 Brook Street. This lot was acquired by Win-Holt in 1984 from David Cohen. Town of Hempstead Building Department records indicate that an industrial building that had previously been damaged by fire had been reconstructed at this location in 1960. No tanks, floor drains, drywells, or other subsurface structures are shown. No specific information was available concerning the past use of this building.



LEGEND:

47 = NASSAU COUNTY LOT NUMBER IN SECTION 34, BLOCK 112

— — — SITE BOUNDARY

o FORMER DRYWELL

SCALE IN FEET:

0 25 50 100

FPM GROUP

FIGURE 2.2.1
SITE PLAN
WIN-HOLT EQUIPMENT CORP.
592 AND 606 BROOK STREET
GARDEN CITY, NEW YORK

Drawn By:JDS | Checked By:SOD | Date: 9/9/02

The Nassau County Department of Public Works (NCDPW) was contacted regarding the sewer connections for the buildings. The 606 Brook Street building was confirmed to be connected to the sewer; however, no connection was recorded for the 592 Brook Street address. Therefore, the NCDPW requested to perform a dye test to confirm the connection. This test was performed in September 2002 and the sewer connection was confirmed. Based on the date of the building construction (1961 through 1962), the sewer connection shown on the 1961 plumbing plans, and the dye test results, FPM concluded that the building at 592 Brook Street has been connected to the sewer since its construction.

The NCDOH records for 592 Brook Street indicate that an inspection performed on November 14, 1996 revealed that waste drums were stored outdoors and a visibly-contaminated drywell was noted behind the building. No floor drains or tanks were noted. One 55-gallon drum of trichlorethylene, approximately 300 gallons of paint, and 165 gallons of waste in drums, including trichloroethylene and paint, were noted on site. NCDOH recommended that the waste drums be moved indoors. A November 26, 1996 letter from the NYSDEC indicates that remedial action was required in connection with a waste oil above-ground storage tank (AST) and a visibly-contaminated drywell.

An environmental consultant for Win-Holt submitted a NCDOH tank registration form for a 275-gallon waste oil underground storage tank (UST) on March 17, 1997. The UST was removed on April 8, 1997 under the supervision of the NCDOH. No holes were observed in the UST and no contamination was noted in the excavation, based on the NCDOH field inspection form.

Win-Holt submitted a NCDOH Application for a Toxic or Hazardous Materials Storage facility permit on April 23, 1997 for two indoor storage areas, including a 55-gallon drum area and a paint area. The storage capacities of these areas are 600 and 1,500 gallons. Both areas are located indoors and have secondary containment consisting of an impervious berm and an impervious floor. While the application included the 592 and 600 Brook Street addresses, both storage areas were shown indoors in the building at 592 Brook Street. The materials to be stored in these areas included hydraulic oil, paint, paint powder, degreaser (unspecified), stabilized trichloroethylene, synthetic oil and lubricant. This permit was renewed on March 6, 1998 and again on March 29, 2000. Win-Holt is not currently a RCRA hazardous waste generator.

An October 2, 1997 letter from the NYSDEC indicates that a stockpile of soil resulting from drywell remediation was still on site and was uncovered. The NYSDEC requested that the stockpile be re-covered.

A January 5, 1999 letter from the NCDOH indicated the following violations: spill procedure not posted, waste removal records not on premises, spill not cleaned up, and containers not closed when not in use. The referenced spillage appeared to be associated with paint on the paint shop floor. These issues were addressed in a follow-up letter from Win-Holt on January 25, 1999. A February 4, 1999 follow-up inspection by the NCDOH indicates that all of the necessary corrections were made and the spillage had been cleaned up.

Based on information provided by Win-Holt, chemicals previously utilized in the Site building include solvents and oil-based paints. At present, only water-soluble paint is used in the paint booth and no solvents were reported to be used on site.

The Site building at 592 Brook Street includes an office area on the north side and a manufacturing area on the south side. The manufacturing area is primarily used for the painting of finished metal products and a paint booth is present inside the building along the south wall. Cutting, grinding, welding and other metal-working processes are performed in the Site building at 606 Brook Street and the adjoining building at 439 Oak Street. Metal parts are transferred either manually or via overhead conveyors both within the Site buildings and between the Site buildings and the adjoining building at 439 Oak Street.

On the south side of the Site building at 592 Brook Street is an unpaved area used for storage of metal parts and equipment. Storage is primarily within enclosed trailers. A concrete pad with curbing was formerly located adjoining the south wall of the building and was also used for storage of metal parts and drums. Two drains (drywells) were located beneath this pad for the purpose of discharging stormwater that would otherwise have accumulated on the pad. This pad and the associated drywells were removed in 1997 during a remediation event, as described in Section 2.3 below.

In September 1995 a spill was reported at the Site (#95-07064) based on a NYSDEC inspection. The NYSDEC reported that a drywell behind the Site building appeared contaminated and also noted that a 275-gallon AST was present, which exhibited petroleum-like odors and may have had contaminated soil

beneath it. The investigations and remediation described in the following sections were performed in response to the reported spill.

2.3 Previous Investigation and Remediation Results

Several investigations have previously been performed to evaluate soil and groundwater conditions at and downgradient of the Site. All of this work has been performed at the 592 Brook Street address; no work was required at 606 Brook Street. Copies of the previous data are included in Appendix A together with a data usability summary (DUSR) evaluation for each dataset. The DUSR for each data set is located immediately preceding each data set. The DUSRs were prepared using the available QA/QC data for each data set. It should be noted that although the data were not generated using the QA/QC procedures described in Section 3.9 of this WP, the sampling was mostly performed under NYSDEC oversight and the analytical labs used are certified by the New York State Department of Health (NYSDOH). Based on the DUSR evaluations, the majority of the previous data may be relied upon when evaluating Site conditions.

Several remediation events have also occurred at the Site. Remediation procedures and results are also summarized below. All remediation was overseen by the NYSDEC, the Nassau County Fire Marshal (NCFM) or the NCDOH.

1995 Reported Spill

Following the report of the spill in September 1995, Win-Holt retained Corporate Safety & Health Consultants (CSHC) to assist in addressing with environmental issues. CSHC subsequently obtained a sample of the sludge in the western drywell (drywell #1) on September 18, 1995 and had the sample analyzed for volatile organic compounds (VOCs) and metals (September 25, 1995 CSHC letter to Win-Holt). The results are included on Table 2.3.1 and indicate that concentrations of several VOCs, lead, and chromium in the drywell sludge exceeded the NYSDEC's Recommended Soil Cleanup Objectives (Objectives).

AST

CSHC also confirmed that the 275-gallon AST noted by the NYSDEC contained waste oil. On September 19, 1995, with the oversight of the NCFM, the 275-gallon waste oil AST was emptied of its

TABLE 2.3.1
SUMMARY OF SOIL SAMPLE RESULTS
WIN-HOLT EQUIPMENT CORPORATION
592 AND 606 BROOK STREET, GARDEN CITY, NEW YORK

	Prior to Remediation					Post-Remediation													NYSDEC Recommended Soil Cleanup Objectives
Location	Drywell #1 Sludge	Soil Around Adjoining Concrete Pad				Drywell #1 Endpoint	Drywell #2 Endpoint	Areas of Surficial Staining		Other End-Point Samples			Former Drywell #1		Former Drywell #1		SSE of Former Drywell #1		
Sample No.	WHMH	B-2		B-3	SA2-1	DW-1/EP	DW-2/EP	SSS-1/EP	SSS-2/EP	EP-3	EP-5	EP-6	GP-1 (AEA)		GP-1 (FPM)		GP-10		
Sample Depth (in feet)	0 - 1 (est)	5 - 7	9-11	9 - 11	1	14	9	3	3 (est)	5	13	4	22 - 24	28 - 30	10 - 12	20 - 22	10 - 12	20 -22	
Sample Date	09/18/95	10/31/95	10/31/95	10/31/95	10/31/95	04/16/97	04/15/97	04/16/97	04/16/97	04/17/97	05/21/97	05/21/97	08/07/97	08/07/97	6/01	6/01	6/01	6/01	
Volatile Organic Compound in micrograms per liter																			
Chloroethane	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	1,900
Methylene Chloride	**1,300 B**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	100
1,1-Dichloroethane	**19,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	200
1,2-Dichloroethene	**1,800**	**2,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	550
1,1,1-Trichloroethane	640 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	800
Trichloroethene	**160,000 D**	**160,000**	140	**35,000**	ND	ND	3	2	3	3	1	1	NA	NA	ND	ND	ND	ND	700
Toluene	**120,000 D**	**5,000**	ND	ND	ND	**2,200**	ND	ND	ND	ND	ND	ND	823	ND	ND	ND	ND	ND	1,500
Ethylbenzene	**9,900 JD**	ND	ND	ND	ND	**8,100**	ND	ND	ND	ND	ND	ND	**14,083**	ND	ND	ND	ND	ND	5,500
Xylenes (total)	**54,000 D**	**3,000**	ND	ND	ND	**820,000**	17	26	9	ND	ND	ND	**110,885**	ND	ND	ND	ND	ND	1,200
Benzene	**9,700 JD**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	**5,600**	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	3,300*
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	**12,000**	2	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	10,000*
Naphthalene	NA	NA	NA	NA	NA	ND	1	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	13,000
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	1	2	ND	ND	ND	NA	NA	ND	ND	ND	ND	1,400
Metals in milligrams per kilogram																			
Arsenic	ND	NA	NA	NA	NA	1.9	0.66	1.9	2.4	0.55	3.8	0.70	NA	NA	NA	NA	NA	NA	7.5
Barium	26.9	81	12	42	29	5.6	3.8	16	15	13	6.2	4.4	NA	NA	NA	NA	NA	NA	300
Cadmium	1.3	5.9	ND	ND	ND	ND	ND	ND	0.1	0.28	ND	ND	NA	NA	NA	NA	NA	NA	10
Chromium	**979**	**1,170**	ND	32.3	**85.5**	2.7	2.3	7.4	10	7.1	4.5	2.7	NA	NA	NA	NA	NA	NA	50
Lead	**5,160**	**5,580**	ND	ND	382	4.2	3.6	4.7	11	1.6	1.1	1.5	NA	NA	NA	NA	NA	NA	200 - 500
Mercury	ND	NA	NA	NA	NA	0.007	0.0076	0.013	0.014	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.1
Semivolatile Organic Compounds in micrograms per liter																			
Naphthalene	NA	NA	NA	NA	NA	91	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	13,000
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	630	220	ND	36	ND	ND	ND	NA	NA	NA	NA	NA	NA	50,000
Di-n-octyl Phthalate	NA	NA	NA	NA	NA	1,100	360	ND	67	ND	ND	ND	NA	NA	NA	NA	NA	NA	50,000
Fluoranthene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	160	NA	NA	NA	NA	NA	NA	50,000
Pyrene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	120	NA	NA	NA	NA	NA	NA	50,000
Benzo(a)anthracene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	73	NA	NA	NA	NA	NA	NA	224
Chrysene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	53	NA	NA	NA	NA	NA	NA	400
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	75	NA	NA	NA	NA	NA	NA	224
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	75	NA	NA	NA	NA	NA	NA	224
Benzo(a)pyrene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	**85**	NA	NA	NA	NA	NA	NA	61
Indeno(1,2,3-CD)pyrene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	30	NA	NA	NA	NA	NA	NA	3,200
Benzo(g,h,i) perylene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	32	NA	NA	NA	NA	NA	NA	50,000

Notes:

Only detected compounds are reported. See laboratory reports for complete data.
NA = Not analyzed.
ND = Not detected.
* = As per December 20, 2000 NYSDEC Petroleum Spill Cleanup Guidance.

NYSDEC = New York State Department of Environmental Conservation
Bold and shaded values indicate exceedance of NYSDEC Recommended Soil Cleanup Objectives
- = No NYSDEC Recommended Soil Cleanup Objectives established.

B = Analyte was detected in an associated blank sample.
J = Estimated concentration.
D = Diluted sample result.

contents by a waste oil contractor and the waste oil was subsequently properly disposed (September 22, 1995 CSHC letter to Win-Holt). The AST was removed from its location prior to opening, cleaning and removing the AST from the Site. The ground beneath the former AST location was examined and found to be free of visible contamination; therefore, confirmatory soil samples were not required by the NCFM.

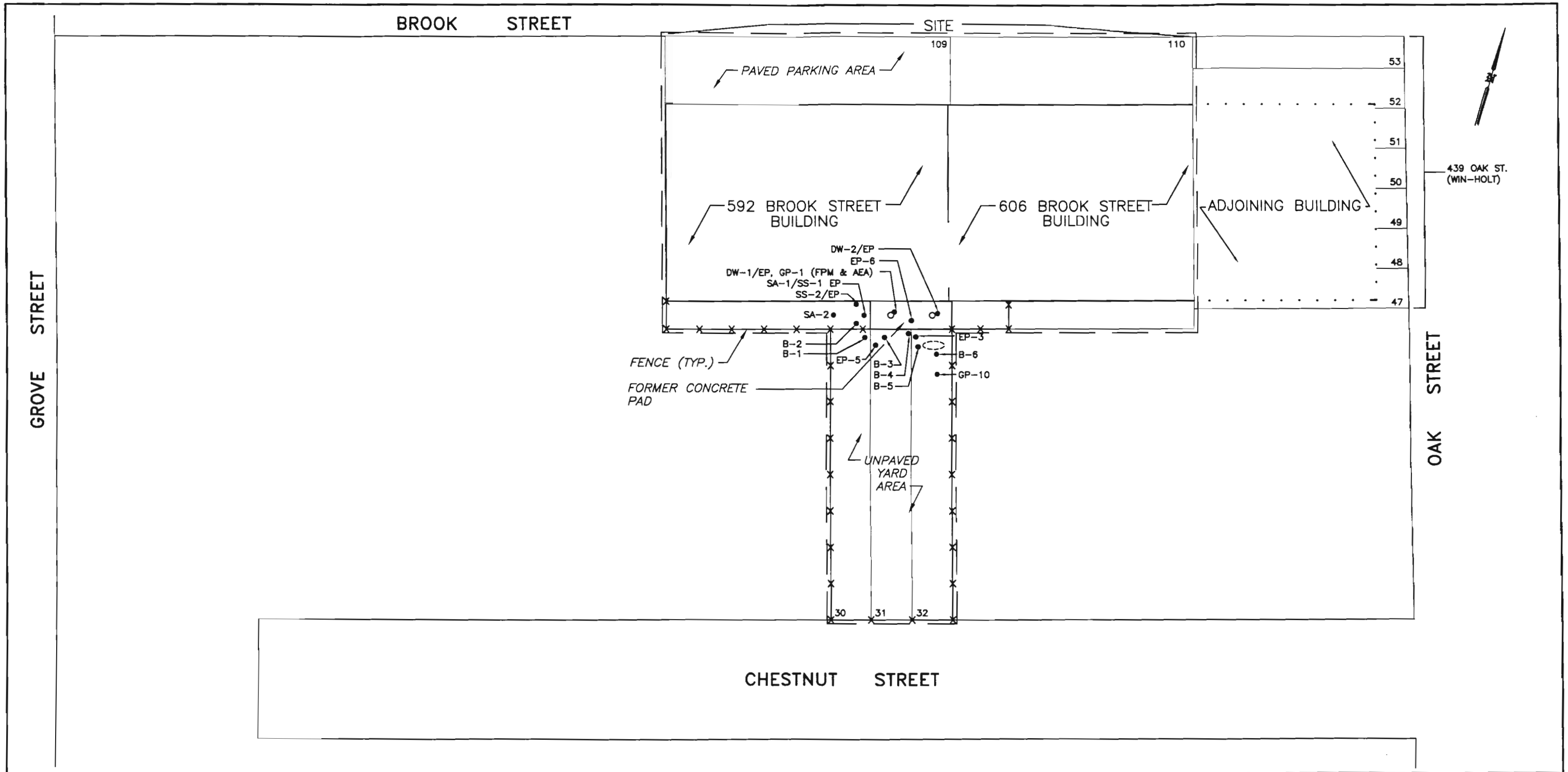
1995 Soil Sampling

Apex Environmental, Inc. (Apex) conducted a soil investigation at the Site in October 1995 (November 21, 1995 and June 25, 1996 letters from Apex). Soil sampling locations are shown on Figure 2.3.1 and the chemical analytical data are included on Table 2.3.1. During this investigation, the two drywells installed in the concrete pad on the south side of the Site building were examined and no pipes or other inlets were identified that may have discharged to the drywells. Therefore, Apex concluded that the two drywells were intended to collect and discharge stormwater from the concrete pad area. Soil borings B-1 through B-4, SA-1 and SA-2 were performed adjoining the south and west sides of the pad and a wedge of soil impacted with VOCs and metals was identified. This soil appeared to have been visibly impacted by paint.

UST

During the Apex investigation, a previously-unreported UST was identified beneath one of the storage trailers as shown on Figure 2.3.1. The storage trailer had been parked at its location since the early 1970s and, therefore, the UST had not been used since at least that time. The UST appeared to be approximately 300 gallons in size and appeared to contain used motor oil. Two soil borings (B-5 and B-6) were performed next to the UST and no visual indications of a potential release from the UST were noted. Therefore, no samples from the B-5 or B-6 borings were analyzed.

Remediation in connection with this UST was performed by Soil Mechanics Environmental Services (SMES) and the results were documented in a June 12, 1997 report to the NCDOH. The UST was confirmed to be 275 gallons in size and to contain waste oil. The UST was registered with the NCDOH in March 1997 and was pumped of its contents, excavated, opened, cleaned, inspected, and disposed in April 1997. The removed UST, the excavation and the overburden soil were inspected by a NCDOH



LEGEND:

47 = NASSAU COUNTY LOT NUMBER IN SECTION 34, BLOCK 112

— — — SITE BOUNDARY

o FORMER DRYWELL

<> FORMER UST LOCATION

• SOIL BORING LOCATION

SCALE IN FEET:

0 25 50 100

FPM GROUP

FIGURE 2.3.1
SOIL SAMPLING LOCATIONS
WIN-HOLT EQUIPMENT CORP.
529 AND 606 BROOK STREET
GARDEN CITY, NEW YORK

Drawn By:JDS | Checked By:SOD | Date: 9/9/02

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representative on April 8, 1997 and no indications of tank failure or petroleum release were noted. Based on this inspection, no soil sampling was required and the NCDOH authorized the backfilling of the excavation.

Drywell Remediation

In April 1997, the area of the concrete pad to the south of the Site building, including the two drywell structures, was remediated by SMES. The results are documented in a June 17, 1997 report to the NYSDEC and the remediation was overseen by the NYSDEC. The drywell structures were both confirmed to be constructed of perforated 55-gallon drums and no piping was found to be associated with either drum. The concrete pad, the drywell structures, and surrounding soils were excavated and stockpiled on poly sheeting pending waste classification for disposal. Approximately 600 tons of material were excavated. Excavation of soil progressed until the remaining soil appeared to be visually clean. A photoionization detector (PID) was used to screen the remaining soils for the presence of organic vapors. A site plan showing the extent of the completed excavation and a table showing the depth of the completed excavation prepared by SMES are included in Appendix A.

Seven confirmatory end-point samples were collected and analyzed for VOCs (Method 8260 list), semivolatile organic compounds (SVOCs, Method 8270 list) and Resource Conservation and Recovery Act (RCRA) metals. The laboratory report is included in Appendix A and results are summarized on Table 2.3.1 and compared to the NYSDEC Objectives. A slightly elevated concentration of one SVOC, benzo(a)pyrene, remained at the EP-6 location at four feet below grade and approximately in the center of the former location of the concrete pad. Several petroleum-related VOCs, including toluene, ethylbenzene, xylenes, and trimethylbenzenes, were detected in the DW-1 end-point sample from 14 feet below grade. No chlorinated solvents or metals were detected in any of the end-point samples at concentrations above the NYSDEC Objectives. The excavation was subsequently backfilled with clean fill and closed. The 600 tons of stockpiled soil was subsequently removed and disposed in October 1997 (January 6, 1998 letter from American Certified Environmental Services).

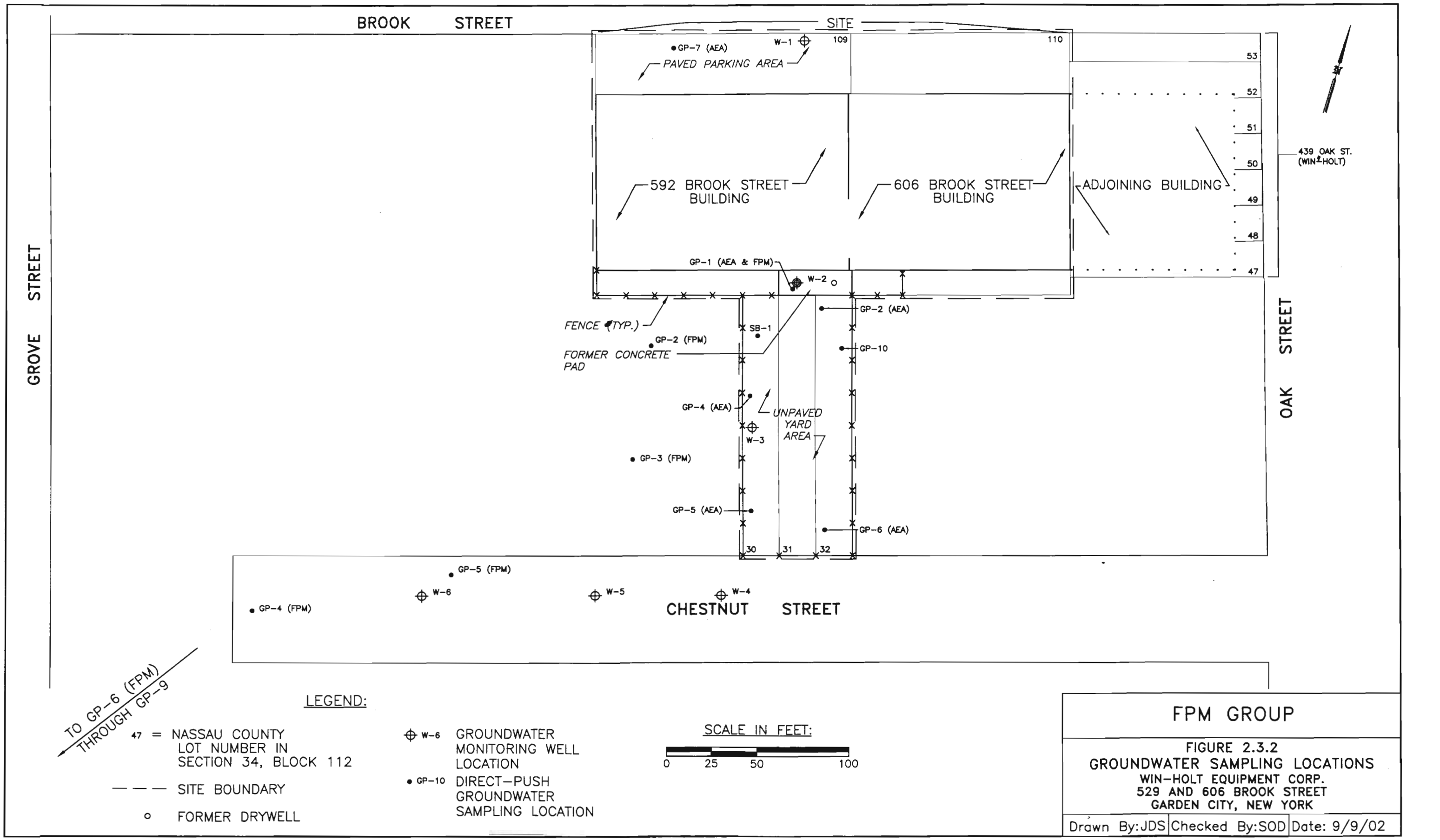
A subsurface investigation was performed by American Environmental Assessment Corp. (AEA) in August 1997 to evaluate the extent of impacted soil remaining in the vicinity of the former drywell #1 (western drywell). Soil samples were obtained from three depths in a soil boring performed in the vicinity of

the former drywell (GP-1), as shown on Figure 2.3.1. The retrieved samples were screened with a PID and the two deepest samples (22 to 24 and 28 to 30 feet below grade) were submitted for analysis for benzene, toluene, ethylbenzene and xylenes (BTEX) by Method 602. A groundwater sample was also obtained from the GP-1 location and from nearby location GP-2 to evaluate groundwater conditions beneath the Site, as shown on Figure 2.3.2. These groundwater samples were also analyzed for BTEX using Method 602. The soil sample results are summarized in Table 2.3.1 and the groundwater sample results are included in Table 2.3.2. The laboratory report and a site plan showing the sampling locations are included in Appendix A.

The soil sample results indicated that BTEX compounds, including toluene, ethylbenzene, and xylenes, were detected in the soil sample from 22 to 24 feet, with the concentrations of ethylbenzene and xylenes exceeding their NYSDEC Objectives. The soil sample from 28 to 30 feet did not contain detectable concentrations of BTEX. Therefore, the remaining impacted soil in the vicinity of the former drywell #1 appears to be limited to the interval between 14 and approximately 24 feet below grade.

BTEX compounds were also present in the GP-1 groundwater sample, with the concentrations of toluene, ethylbenzene and xylenes exceeding the NYSDEC Class GA Ambient Water Quality Standards (Standards). Toluene and xylenes were also detected in the groundwater at the GP-2 location; however, the detected concentrations did not exceed the NYSDEC Standards. Based on these data, the area of impacted groundwater in August 1997, shortly following remediation of the drywells, included the area in the vicinity of the former drywell #1 but did not extend as far southeast as the GP-2 location.

A groundwater investigation was performed by AEA at the Site in November 1997. Groundwater samples were obtained from five locations (SB-1, and GP-4 through GP-7), as shown on Figure 2.3.2. Each sample was collected from near the water table surface except for the SB-1 sample, which was collected from approximately 10 feet below the water table surface. The samples were analyzed for BTEX (Method 602). The data are summarized in Table 2.3.2 and the laboratory report is included in Appendix A. BTEX compounds, including toluene, ethylbenzene, and/or xylenes, were detected at the SB-1, GP-4, GP-5, and GP-6 locations, although the concentrations detected at GP-5 were relatively low and the concentration detected at GP-6 did not exceed the NYSDEC Standard. BTEX was not detected at the GP-7 location, which is located on the upgradient side of the Site.



FPM GROUP

FIGURE 2.3.2
GROUNDWATER SAMPLING LOCATIONS
WIN-HOLT EQUIPMENT CORP.
529 AND 606 BROOK STREET
GARDEN CITY, NEW YORK

Drawn By:JDS | Checked By:SOD | Date: 9/9/02

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TABLE 2.3.2
SUMMARY OF OLDER GROUNDWATER SAMPLING RESULTS
WIN-HOLT EQUIPMENT CORPORATION
592 AND 606 BROOK STREET, GARDEN CITY, NEW YORK

Sample Location	GP-1 (AEA)	GP-2 (AEA)	SB-1	GP-4 (AEA)	GP-5 (AEA)	GP-6 (AEA)	GP-7 (AEA)	NYSDEC Class GA Ambient Water Quality Standards
Sample Depth (in feet)	28	30	34	24 (est)	24 (est)	24 (est)	24 (est)	
Sample Date	8/7/97	8/7/97	11/21/97	11/21/97	11/21/97	11/21/97	11/21/97	
Parameter in micrograms per liter								
Benzene	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	**11,448**	ND	**1,868**	**410**	**23**	ND	ND	5
Toluene	**7,167**	1	**2,404**	**8,835**	**86**	2	ND	5
Xylenes	**66,457**	5	**1,913**	**2,046**	**107**	ND	ND	5
Total BTEX	85,072	6	6,185	11,291	216	2	ND	-

Notes:

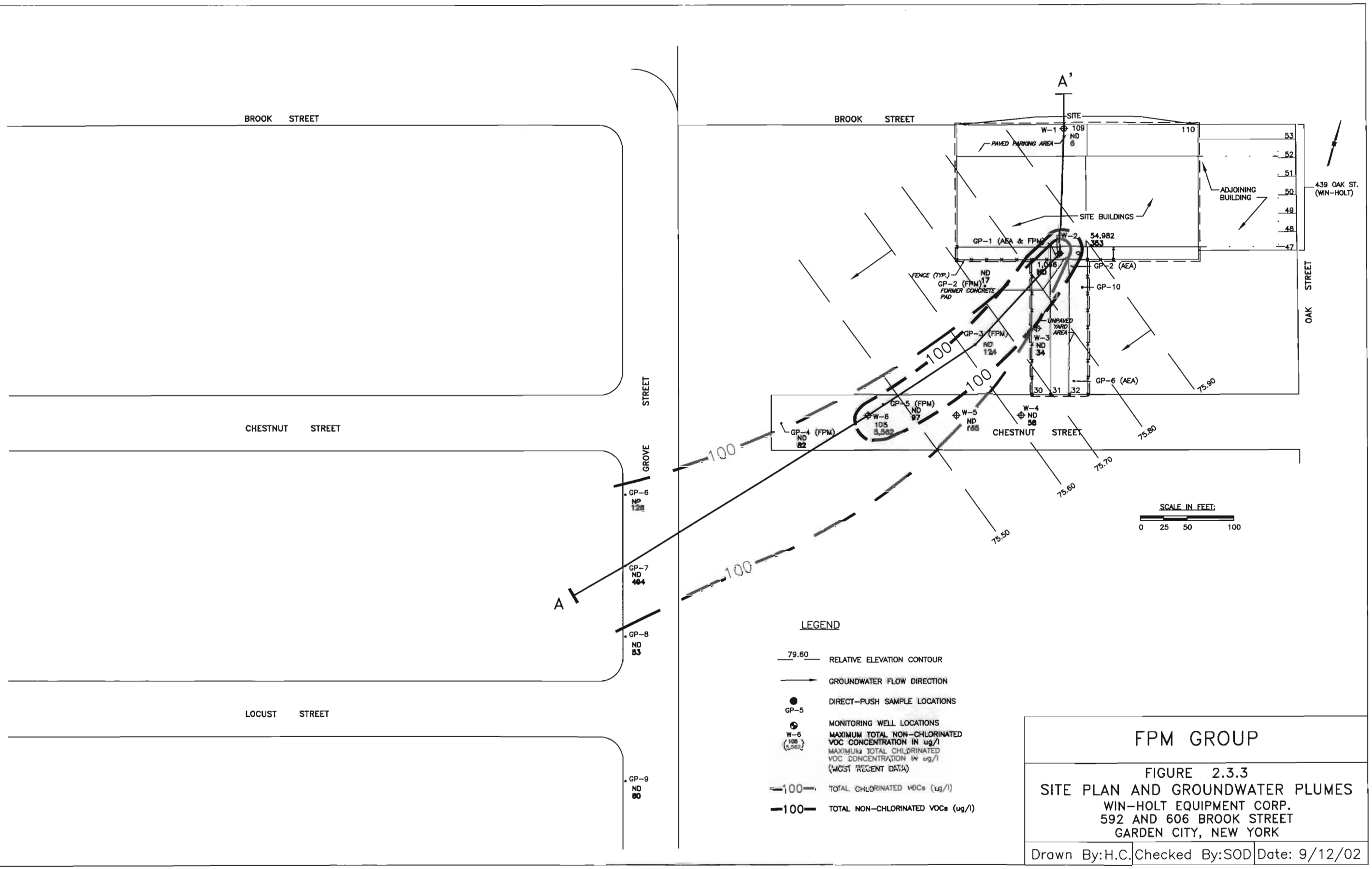
BTEX = Benzene, toluene, ethylbenzene and xylenes.
NYSDEC = New York State Department of Environmental Conservation
ND = Not detected.
- = No NYSDEC Class GA Ambient Water Quality Standards established.
Bold and shaded values indicate exceedance of NYSDEC Class GA Ambient Water Quality Standard.

FPM performed additional soil sampling at the Site in June 2001, as outlined in a revised and subsequently approved investigation work plan submitted to the NYSDEC on October 31, 2000. Two soil borings (GP-1 and GP-10) were performed; GP-1 was performed at the location of the former drywell #1 where the end-point soil sample had contained concentrations of petroleum compounds exceeding the NYSDEC Objectives. Boring GP-10 was performed approximately 40 feet east-southeast of this former drywell, in the vicinity of the former AEA GP-2 location. At each boring, two soil samples were collected from depths of 10 to 12 feet and 20 to 22 feet below grade and the samples were analyzed for VOCs by USEPA Method 8260. The results, reported in FPM's September 4, 2001 letter to the NYSDEC and included in Appendix A, indicated that no targeted analytes were detected in any of these soil samples.

FPM installed five groundwater monitoring wells (W-1 through W-5) in January 1999 as described in a NYSDEC-approved work plan dated December 11, 1998. All wells were installed to a depth of approximately 34 feet below grade (10 feet below the water table) and were sampled for petroleum compounds in February 1999. The groundwater elevations obtained from the newly-installed wells indicated that the site-specific groundwater flow direction is approximately S25°W as shown on Figure 2.3.3. No floating product was detected in any of the wells.

The groundwater samples were analyzed for BTEX using Method 8240. The groundwater chemical analytical data are summarized in Table 2.3.3 and the laboratory report is included in Appendix A. Benzene was not detected in any of the wells sampled. In addition, the upgradient well (W-1) showed no detections of toluene, ethylbenzene or xylenes (TEX). Well W-3 showed slight detections of TEX, none of which exceeded the NYSDEC Standards. Wells W-2, W-4, and W-5 each showed detections of TEX, all of which exceeded the Standards for those compounds. Well W-2, which is located in the approximate location of the former leaching pool, showed the highest concentrations of TEX. In addition, odors noted during the well drilling and sampling indicated VOCs other than petroleum may be present.

Based on the results of the 1999 groundwater sampling, additional groundwater sampling was proposed to further define the nature and extent of groundwater contamination both onsite and offsite. The scope of this work is documented in an October 31, 2000 work plan, which was approved by the NYSDEC,



FPM GROUP

FIGURE 2.3.3
SITE PLAN AND GROUNDWATER PLUMES
WIN-HOLT EQUIPMENT CORP.
592 AND 606 BROOK STREET
GARDEN CITY, NEW YORK

Drawn By:H.C. | Checked By:SOD | Date: 9/12/02

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TABLE 2.3.3
SUMMARY OF RECENT GROUNDWATER SAMPLING RESULTS
WIN-HOLT EQUIPMENT CORPORATION
592 AND 606 BROOK STREET, GARDEN CITY, NEW YORK

Sample Location	W-1		W-2			W-3		W-4		W-5		W-6		GP-1	GP-1	GP-2	GP-2	GP-2	GP-3	GP-3	GP-3	GP-4	GP-4	GP-4	GP-5	GP-5	GP-6	GP-6	GP-6	GP-7	GP-7	GP-7	GP-8	GP-8	GP-8	GP-9	GP-9	GP-9	NYSDEC Class GA Ambient Water Quality Standards
Sample Depth (in feet)	-24-34		-24-34			-24-34		-24-34		-24-34		-24-34		37-39	52-54	24-26	37-39	52-54	24-26	37-39	52-54	24-26	37-39	52-54	37-39	52-54	24-26	37-39	52-54	24-26	37-39	52-54	23-25	36-38	51-53	23-25	36-38	51-53	
Sample Date	2/3/99	6/18/01	2/3/99	2/12/01	6/12/01	2/3/99	6/18/01	2/3/99	2/12/01	2/3/99	2/12/01	2/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/11/01	6/11/01	6/11/01	6/11/01	6/11/01	6/18/01	6/18/01	6/18/01	6/18/01	6/18/01	6/18/01	6/18/01	6/11/01	6/11/01	6/11/01	6/18/01	6/18/01	6/18/01	
Parameter																																							
Volatile Organic Compound in micrograms per liter																																							
1,1,1-Trichloroethane	NA	ND	NA	**170**	**110**	NA	3	NA	5	NA	**140**	**3,400**	**5,400**	ND	ND	**6**	ND	ND	**43**	ND	ND	**77**	**57**	ND	**28**	ND	ND	**110**	ND	1	**440**	ND	ND	4	**6**	ND	ND	2	5*
1,1-Dichloroethane	NA	ND	NA	**290**	**200**	NA	1	NA	ND	NA	5	**76**	**97**	ND	ND	**7**	ND	ND	**52**	ND	ND	**5**	4	ND	**10**	ND	ND	**8**	ND	ND	**10**	ND	ND	ND	4	ND	ND	ND	5*
1,1-Dichloroethylene	NA	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	**52**	**34**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	**10**	ND	ND	ND	ND	ND	ND	ND	5*
1,2,4-Trimethylbenzene	NA	ND	NA	**94**	**140**	NA	ND	NA	ND	NA	ND	ND	ND	1	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
1,2-Dichloroethylene (total)	NA	3(cis)	NA	**23(cis)**	**35(cis)**	NA	2(cis)	NA	ND	NA	ND	2(cis)	ND	ND	ND	ND	1(cis)	ND	**20(cis)**	ND	ND	ND	ND	ND	**30(cis)**	ND	ND	ND	ND	ND	3(cis)	ND	ND	2(cis)	**17(cis)**	ND	ND	2(cis)	5*
1,3,5-Trimethylbenzene	NA	ND	NA	**28**	**80**	NA	ND	NA	ND	NA	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
1,2-Dichloroethane	NA	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
Chloroethane	NA	ND	NA	5	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Ethylbenzene	ND	ND	**9,000**	**5,600**	**4,700**	2	ND	**9**	ND	**241**	ND	ND	ND	**7**	**160**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Isopropylbenzene	NA	ND	NA	**13**	**17**	NA	ND	NA	ND	NA	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Naphthalene	NA	ND	NA	1	ND	NA	ND	NA	ND	NA	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
n-Butylbenzene	NA	ND	NA	1	3	NA	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
n-Propylbenzene	NA	ND	NA	**15**	**19**	NA	ND	NA	ND	NA	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Xylenes (total)	ND	ND	**47,000**	**31,100**	**38,000**	**12**	ND	**56**	ND	**777**	ND	1	**79**	**41**	**770**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
sec-Butylbenzene	NA	ND	NA	1	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
tert-Butylbenzene	NA	ND	NA	**12**	**23**	NA	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Tetrachloroethylene	NA	ND	NA	**11**	**8**	NA	ND	NA	1	NA	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	1	4	ND	3	2	ND	1	4	5*
Toluene	ND	ND	**51,000**	**12,000**	**12,000**	3	ND	**17**	ND	**164**	ND	1	**26**	**8**	**120**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Trichloroethylene	NA	3	NA	**100**	ND	NA	**28**	NA	**52**	NA	**20**	**32**	**31**	ND	ND	4	2	ND	**9**	ND	ND	ND	ND	ND	**29**	ND	ND	**6**	ND	ND	**30**	2	ND	**25**	**24**	ND	ND	**52**	5*
Total Chlorinated VOCs	NA	6	NA	599	353	NA	34	NA	58	NA	165	3,565	5,562	ND	ND	17	3	ND	124	ND	ND	82	61	ND	97	ND	ND	126	1	1	494	6	ND	34	53	ND	1	60	-
Total Non-Chlorinated VOCs	ND	ND	107,000	48,865	54,982	17	ND	82	ND	1,182	ND	4	105	57	1,066	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Semivolatile Organic Compounds in micrograms per liter	NA	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-

Notes:

ND = Not detected.
* = Principal Organic Contaminant Standard applies.
Bold and shaded values indicate exceedance of NYSDEC Class GA Ambient Water Quality Standard.

with revisions, on November 3, 2000. In January 2001, monitoring well W-6 was installed to delineate the western edge of the impacted groundwater. In February 2001, well W-2 and wells W-4 through W-6 were sampled and analyzed for VOCs and SVOCs by USEPA Methods 8260 and 8270, respectively. The results of the chemical analysis are summarized in Table 2.3.3 and the laboratory data are included in Appendix A.

Elevated concentrations of total xylenes, toluene and ethylbenzene continued to be noted at well W-2, although the concentrations were lower than previously detected. These analytes were either not detected or were detected at low concentrations at the other wells. In addition, several other analytes, primarily solvents, including 1,1,1-trichloroethane (1,1,1-TCA), trichloroethylene (TCE), and tetrachloroethylene (PCE), were detected at well W-2 at concentrations exceeding NYSDEC Standards. Elevated concentrations of 1,1,1-TCA were also detected at wells W-6 and W-5. Elevated concentrations of TCE were also detected at wells W-4, W-5 and W-6. In addition, several breakdown products of 1,1,1-TCA and TCE, including 1,1-dichloroethane, 1,1-dichloroethene, and/or cis-1,2-dichloroethene were detected at elevated concentrations at wells W-2 and W-6. No SVOCs were detected in any of the samples.

In June 2001, direct-push groundwater samples were obtained at nine locations, GP-1 through GP-9, for the purpose of delineating the previously-identified plumes. Groundwater samples were collected at each location from depth intervals of 0 to 2, 13 to 15, and 28 to 30 feet below the water table (with the exception of GP-1 and GP-5, at which the shallow sample was omitted due to the presence of adjacent shallow wells W-2 and W-6, respectively). Monitoring wells W-1 through W-3 and well W-6 were also sampled. Depth to water at wells W-1 through W-6 was also recorded to evaluate the site-specific groundwater flow direction, which was found to be comparable to the flow direction previously obtained.

All of the samples were analyzed for Target Compound List (TCL) VOCs by Method 8260. Select samples were also analyzed for TCL SVOCs by Method 8270. The results of the June 2001 groundwater chemical analyses are shown in Table 2.3.3 and the laboratory report is included in Appendix A. No SVOCs were detected at wells W-1 or W-3. These results are consistent with previous groundwater quality results for this site and indicate that no significant SVOC contamination is present in the site groundwater.

However, two contaminant plumes, which can be identified as a non-chlorinated (petroleum) VOC plume and a chlorinated VOC plume, were noted, as shown on Figure 2.3.3. Concentrations of non-

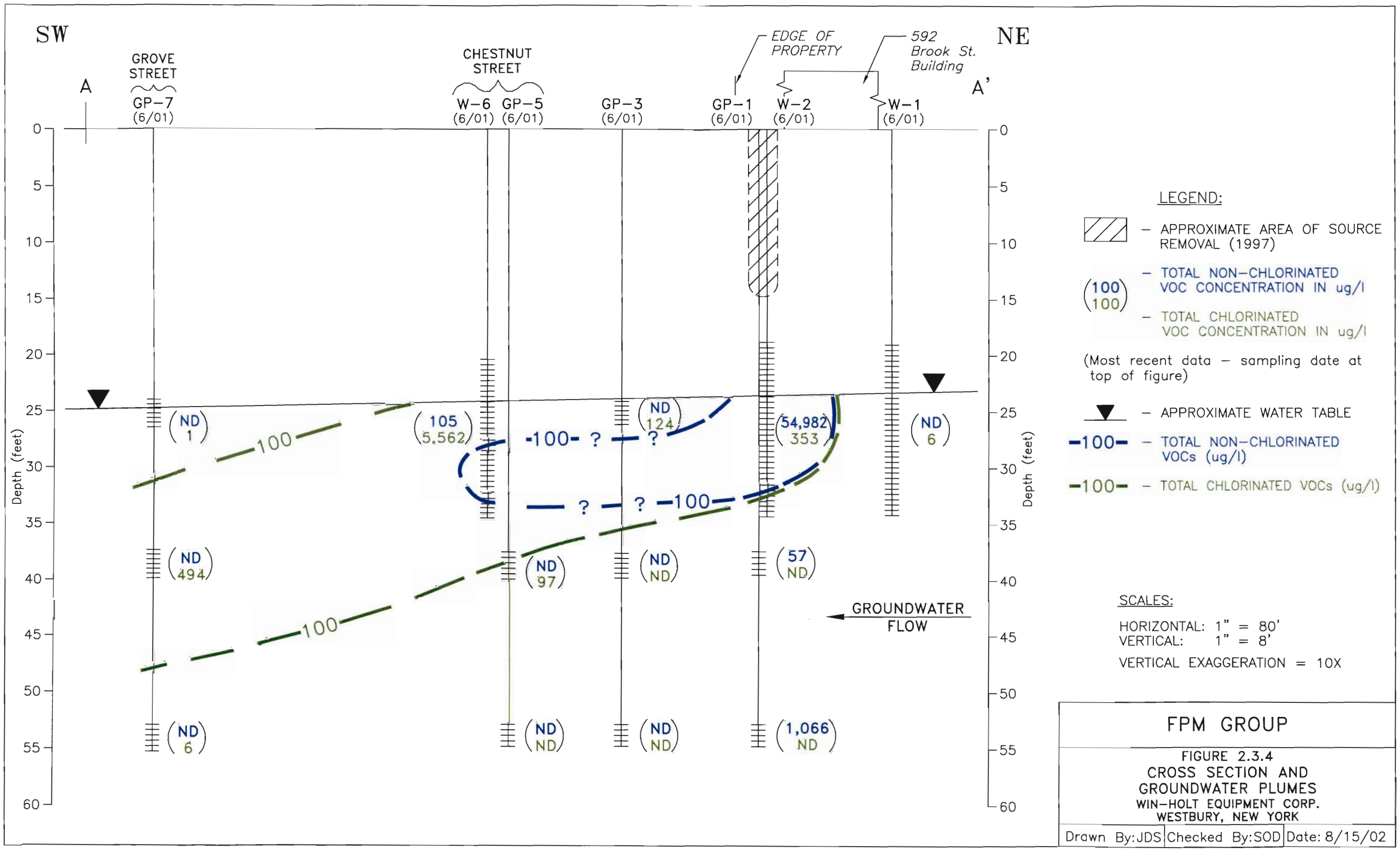
chlorinated petroleum VOCs (mainly ethylbenzene, toluene and/or xylenes) exceeding the NYSDEC Standards were present at W-2, GP-1, and W-6. Concentrations of non-chlorinated petroleum VOCs exceeding the NYSDEC Standards, which had been detected at wells W-4 and W-5 during previous sampling events, had been reduced to levels below the NYSDEC Standards. No non-chlorinated petroleum VOCs were detected further downgradient along Grove Street.

Total chlorinated VOCs were detected at 11 sampling locations with the highest concentrations found at well W-6 (5,562 micrograms per liter, or ug/l), followed by GP-7 (494 ug/l), and well W-2 (353 ug/l). Concentrations of chlorinated VOCs detected at the other locations showed either low to moderate exceedances of the Standards. Detected analytes consisted primarily of solvents, including 1,1,1-TCA and TCE. In addition, several breakdown products of 1,1,1-TCA and TCE, including 1,1-dichloroethane, 1,1-dichloroethylene, and cis-1,2-dichloroethylene, were present. Based on these results and previous groundwater quality data, solvent-impacted groundwater was present at well W-2 in the vicinity of the former leaching pool and extended south-southwest to borings GP-6 through GP-9. The centerline of the plume in the downgradient direction appeared to be approximately at GP-7. Chlorinated VOC concentrations decreased to the north and south of GP-7.

Figure 2.3.4 shows the configuration of the two plumes in cross-section. Contamination at the upgradient locations (W-2 and GP-3) was detected only at the shallow interval (24-26 feet below grade) indicating that deeper groundwater contamination by solvents is not present in the source area. At the downgradient locations (GP-6 through GP-9), impacted groundwater slightly exceeding the Standards was detected only in the deeper samples: 37-39 feet at GP-6 and GP-7; 36-38 and 51-53 feet at GP-8; and 51-53 feet at GP-9. At GP-8 and GP-9 the detected concentrations in the deepest intervals exceed the NYSDEC Standards only slightly to moderately.

2.4 Conclusions

Soil sampling performed in the vicinity of the former western drywell and associated concrete pad in the unpaved yard area at the Site prior to remediation indicated the presence of soil impacted with petroleum compounds, chlorinated solvent compounds, lead and chromium in association with the drywell and pad



FPM GROUP

FIGURE 2.3.4
CROSS SECTION AND GROUNDWATER PLUMES
WIN-HOLT EQUIPMENT CORP.
WESTBURY, NEW YORK

Drawn By:JDS | Checked By:SOD | Date: 8/15/02

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area. The sampling indicated that the impact appeared to be limited to the vicinity of the pad; no impacted soil was found at other locations in the yard. The sampling also indicated that the impact appeared to be largely limited to the upper few feet below grade. Deeper contamination was only found at the western drywell location. One AST and one UST containing waste oil were identified in the yard area. Both tanks were removed with regulatory agency oversight and no impacted soil was identified in association with these tanks.

The area of the western and eastern drywells and associated concrete pad was remediated in 1997 by excavating and disposing of the impacted soil. Approximately 600 tons of soil were removed and end-point sampling showed that the soil in all areas of the excavation did not exceed NYSDEC Objectives with the exception of a minor exceedance of the NYSDEC Objective for one SVOC at one location beneath the former pad area (EP-6) and soil beneath the former western drywell. Soil in the western drywell area at 14 feet below grade continued to exhibit concentrations of some petroleum-related VOCs exceeding NYSDEC Objectives. Additional soil sampling performed in this area indicated that the petroleum-impacted soil extended to approximately 24 feet below grade but did not extend below 28 feet below grade. Following remediation, none of the end-point soil samples exhibited elevated concentrations of chlorinated VOCs, chromium, or lead.

Based on this information, the source area for the groundwater plumes (discussed below) has not been fully remediated, although based on the post-remediation soil sampling data, no significant quantities of additional source material remain present. Based on sampling performed following remediation in 1997, minor amounts of petroleum-impacted soil likely remain in the interval between 14 and approximately 24 feet below grade in the vicinity of the western drywell. However, the extent of this soil appears to be limited because additional soil sampling performed in 2001 did not encounter impacted material. No concentrations of chlorinated VOCs, chromium, or lead exceeding the NYSDEC Objectives remain in any of the end-point samples or in any of the soil samples collected following remediation. Therefore, no additional soil sampling is proposed. The remaining limited petroleum-impacted soil will be evaluated following the completion of the groundwater investigation.

With respect to the Site groundwater, both a chlorinated VOC plume and a non-chlorinated petroleum VOC plume have been identified. Based on the results of the groundwater sampling to date, it appears that the non-chlorinated petroleum VOC plume has been completely delineated and the chlorinated VOC plume has been largely delineated, although the downgradient extent of this plume has not been identified.

The behavior of these plumes through time was evaluated by comparing historic and recent sampling data. A comparison of the 1999 and 2001 groundwater quality data for non-chlorinated VOCs at wells W-2 through W-5 (see Figure 2.4.1) demonstrates that the concentrations of non-chlorinated petroleum VOCs are decreasing with time, although a slight increase was noted in downgradient well W-6. A similar pattern is observed for the chlorinated VOC plume as shown in Figure 2.4.2. These data indicate that the source of this contamination has been remediated and that contaminant concentrations may be expected to continue to decrease with time.

Since the source area has been largely remediated, FPM has recommended monitoring of the groundwater downgradient of the former drywell to confirm the anticipated continuing decrease in contaminant concentrations with time. FPM's recommendation is based on 1) the decrease in VOC concentrations in some of the groundwater monitoring wells downgradient of the known former source area, 2) the previous remediation of the known former source area, and 3) the absence of any other potential source areas at the Site, based on FPM's investigation into pertinent records and reports, which did not reveal the presence of any additional potential source areas. An additional groundwater monitoring well is proposed for the former GP-7 location near the downgradient edge of the chlorinated VOC plume. Additional direct-push groundwater sampling is proposed downgradient of the GP-7 location for the purpose of confirming the downgradient extent of the chlorinated VOC plume. A water supply well survey is also recommended to confirm that no groundwater exposure is occurring in the reasonable downgradient vicinity of the plume. The proposed scope of work is documented in the following section of this work plan.

Figure 2.4.1
Historic Total Non-Chlorinated VOCs Concentrations
Win-Holt Equipment Corporation
592 And 606 Brook Street, Garden City, New York

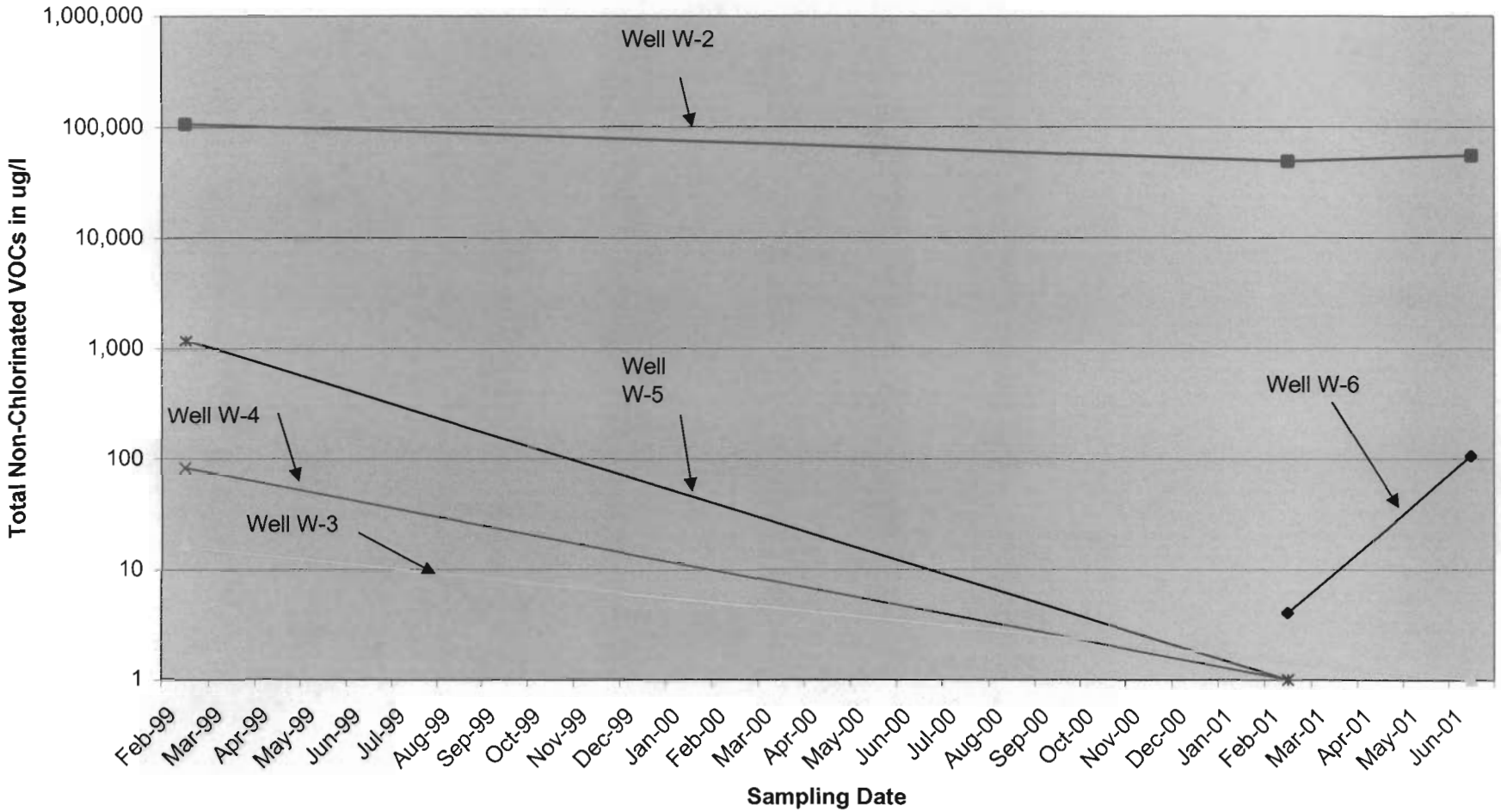
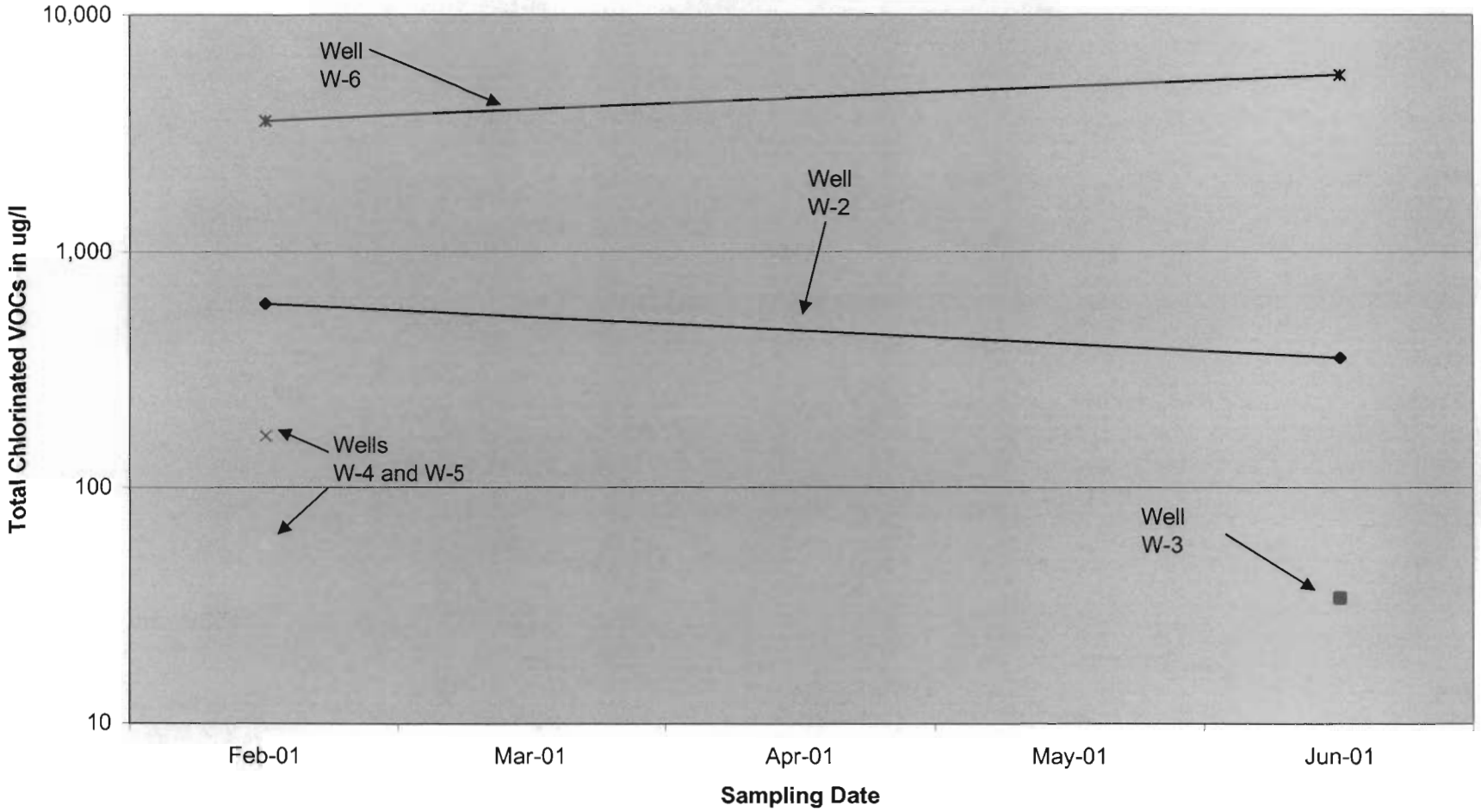


Figure 2.4.2
Historic Total Chlorinated VOC Concentrations
Win-Holt Equipment Corporation
592 And 606 Brook Street, Garden City, New York



SECTION 3.0
PROPOSED INVESTIGATION

Based on a review of the previous sampling results and historical records for the Site, additional data needs were identified to fully characterize the nature and extent of groundwater contamination associated with the Site and to evaluate potential exposure to contaminants associated with the Site. The following data needs were noted and will be addressed during the investigation:

- Installation of an additional downgradient groundwater well to monitor groundwater near the downgradient end of the chlorinated VOC plume;
- Periodic groundwater monitoring at select Site wells to confirm the observed contaminant concentration trends;
- Obtaining additional groundwater samples downgradient of the former GP-7 location to confirm the downgradient extent of the chlorinated VOC plume;
- Obtaining soil gas samples in the area above the chlorinated VOC plume; and
- Performance of a receptor survey to evaluate the presence of downgradient groundwater receptors. The results of the receptor survey will be incorporated into an exposure assessment.

The following sections present the proposed investigation scope of work and procedures, analytical methods, and quality assurance/quality control procedures. The HASP is included in Appendix B. The resume of the project manager, Stephanie O. Davis, is included in Appendix C.

In addition to the investigation activities, a public mailing list will be generated. The mailing list will include residents and businesses within 0.25 miles of the Site, public officials, and local citizen groups. A local document repository (such as a public library) shall be identified. The public mailing list shall be completed and the document repository identified at least two weeks prior to initiating field work.

3.1 Proposed Investigation Scope of Work

3.1.1 Installation of Groundwater Monitoring Well W-7

Groundwater monitoring well W-7 will be installed at the former GP-7 location. The proposed well W-7 location was previously shown on Figure 2.3.3. This location may be adjusted slightly in the field based on

limitations imposed by subsurface and aboveground utilities, private property and other potential restrictions, although adjustments are not anticipated due to the previous successful sampling at GP-7. The well location may also be affected by restrictions placed on the necessary road-opening permit from the Village of Garden City. Following installation, the well will be purged and sampled together with the other Site wells, as described below.

3.1.2 Periodic Groundwater Sampling

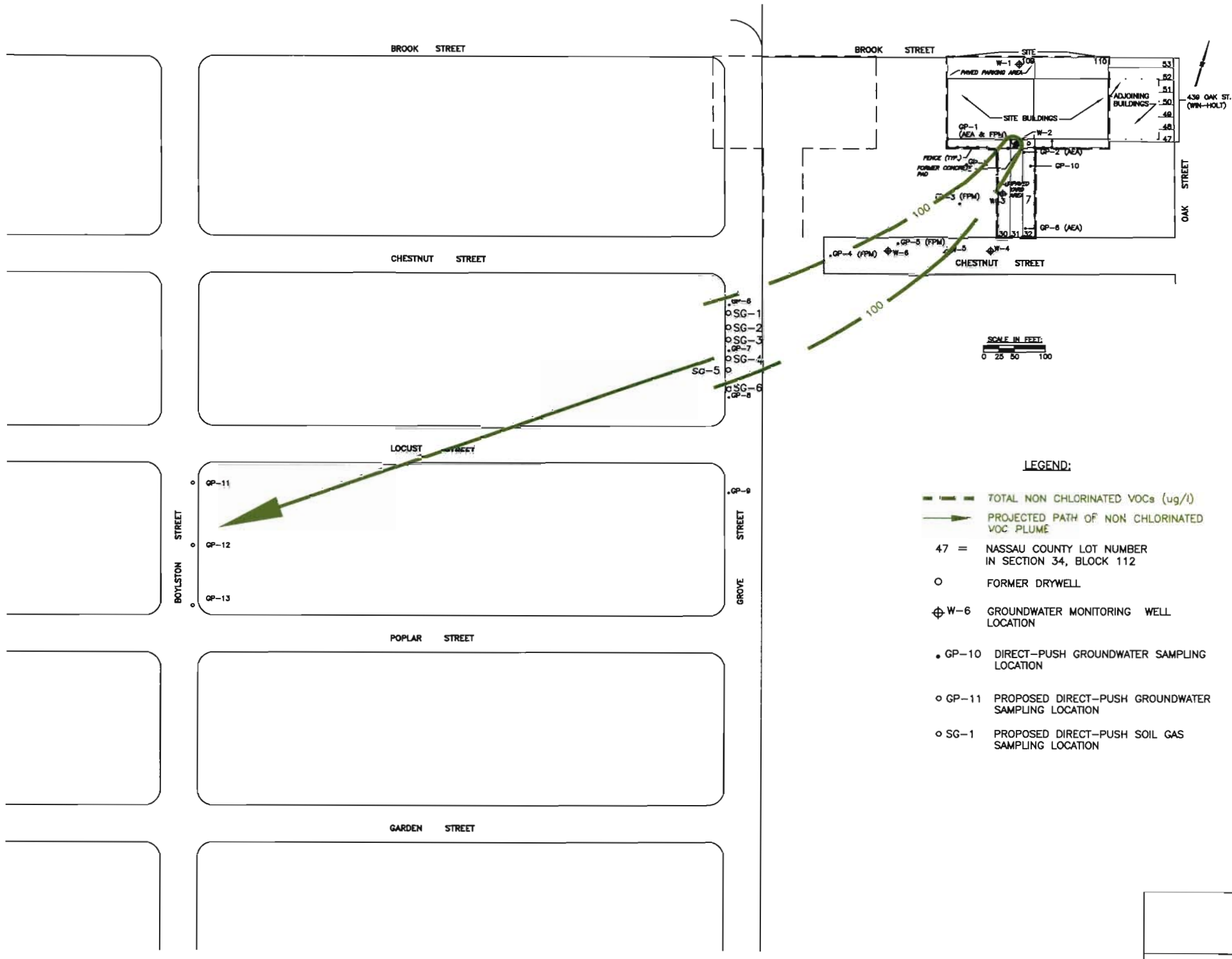
Groundwater sampling is proposed on a quarterly basis for one-half year at Site wells W-1 through W-7 to evaluate groundwater conditions downgradient of the former drywell area. Each of the groundwater samples will be analyzed for Target Compound List (TCL) VOCs. The results from these samples will be utilized to evaluate trends in groundwater conditions and to determine if additional remediation may be warranted.

3.1.3 Direct-Push Groundwater Sampling

Direct-push groundwater sampling is proposed at three locations downgradient of the former GP-7 location to confirm the downgradient extent of the chlorinated VOC plume. These locations will be positioned along Boylston Street between Locust and Poplar Streets, as shown on Figure 3.1.3.1. Based on the depth of the chlorinated VOC plume in the previous direct-push sampling locations along Grove Street, it is planned to sample the locations along Boylston Street at 37 to 39, 52 to 54, and 67 to 69 feet below grade. These data will be utilized together with the previously-obtained data to evaluate the downgradient extent of the chlorinated VOC groundwater plume.

3.1.4 Soil Gas Survey

A soil gas survey shall be performed in the area above the groundwater plume beneath Grove Street. A direct-push rig shall be utilized to obtain two soil gas samples at each of six sampling points positioned between the GP-6 and GP-8 locations on Grove Street. At each location to be sampled, soil gas shall be obtained from two feet and six feet below grade. The samples shall be analyzed for VOCs using the TO-14 and TO-15 Methods. The resulting data will be utilized to evaluate potential organic vapor concentrations associated with the groundwater plume.



LEGEND:

- TOTAL NON CHLORINATED VOCs (ug/l)
- PROJECTED PATH OF NON CHLORINATED VOC PLUME
- 47 = NASSAU COUNTY LOT NUMBER IN SECTION 34, BLOCK 112
- ○ FORMER DRYWELL
- ⊕ W-6 GROUNDWATER MONITORING WELL LOCATION
- • GP-10 DIRECT-PUSH GROUNDWATER SAMPLING LOCATION
- ○ GP-11 PROPOSED DIRECT-PUSH GROUNDWATER SAMPLING LOCATION
- ○ SG-1 PROPOSED DIRECT-PUSH SOIL GAS SAMPLING LOCATION

FPM GROUP

FIGURE 3.1.3.1
PROPOSED DOWNGRADIENT SAMPLING LOCATIONS
WIN-HOLT EQUIPMENT CORP.
592 AND 606 BROOK STREET
GARDEN CITY, NEW YORK

Drawn By: H.C.	Checked By:SOD	Date: 9/12/02

D:\WIN-HOLT\VCP\F.dwg, 12/10/02 02:51:47 P.M. 1:200

3.1.5 Receptor Survey and Exposure Assessment

A receptor survey is proposed for the area downgradient of the Site to evaluate the potential for human exposure to groundwater via either private or public drinking water wells of other types of wells (irrigation, cooling water, etc.). Private water supply wells will be surveyed within an area one-half mile downgradient of the Site and public water supply wells and other types of wells will be surveyed within one mile downgradient of the Site. The results of the receptor survey will be used together with the additional and previously-collected Site soil and groundwater data to prepare an exposure assessment for the Site.

3.2 Well Installation Procedures

Well W-7 will be drilled and installed using a hollow-stem auger rig in conformance with accepted industry practice and in a similar manner to the other onsite groundwater monitoring wells. The hollow-stem augers used shall be a minimum of eight inches in diameter. FPM will observe the well installation and prepare a boring log/well installation diagram to document the subsurface conditions. During drilling, a split-spoon soil sample shall be collected every five feet for the purpose of evaluating the subsurface stratigraphy. FPM will observe the split-spoon soil samples and the soil cuttings and will classify the materials encountered using the Unified Soil Classification System (USCS). The split-spoon soil samples and cuttings will also be screened for indications of contamination with a calibrated PID. Any impacted split-spoon soil samples or cuttings will be containerized in drums for later disposal.

It is anticipated that the well will include a four-inch diameter 0.01-inch machine-slotted screen approximately 10 feet long installed to a depth of 37 to 47 feet below grade. The annulus will be backfilled with Morie #1 well gravel, or equivalent, to approximately two feet above the top of the screen with an overlying two-foot bentonite seal, and the balance will be backfilled with bentonite or cement bentonite grout to the water table surface and cuttings to near grade. The top of the well casing will be capped with an expansion-fit locking well cap and the casing will be protected with a bolt-down flush-mounted manhole cover set in concrete.

Following installation, the well will be developed by pumping and surging until the produced groundwater is clear (turbidity less than 50 nephelometric turbidity units, or NTU) and the parameters pH,

temperature, and conductivity vary by less than 10 percent between removal of successive casing volumes of groundwater.

Following well installation, a survey will be performed in which the relative elevation of the top of the PVC casing for well W-7 will be determined to the nearest 0.01 foot. The static water levels for each of the Site wells will be measured and will be used in conjunction with the previously-surveyed well casing elevations to calculate the Site-specific groundwater flow direction.

3.3 Periodic Groundwater Monitoring Procedures

At each well to be sampled, the depth to the static water level and depth of the well will be measured. Then a decontaminated Teflon bailer or a decontaminated submersible pump will be used to purge the well until the turbidity of the produced water is less than 50 NTU or until five well volumes of water have been purged. Following the removal of each well volume, field parameters, including pH, turbidity, specific conductivity, and temperature, will be monitored. When all stability parameters vary by less than 10 percent between the removal of successive well volumes, the wells will be sampled. Well sampling forms documenting the well purging and sampling procedures will be completed.

Following purging, sampling will be performed. Samples will be obtained using dedicated disposable polyethylene bailers suspended from dedicated cotton or polypropylene lines. The retrieved samples will be decanted into laboratory-supplied sample containers. Each sample container will be labeled, and the labeled containers will be placed in a cooler with ice to depress the sample temperature to four degrees Celsius. A chain of custody form will be completed and kept with the cooler to document the sequence of sample possession. At the end of each day, the filled cooler will be transported by FPM or overnight courier to the analytical laboratory. The anticipated analytical laboratory is Severn-Trent Laboratory (STL) of Monroe, Connecticut. STL is a New York State Department of Health ELAP-certified laboratory. The groundwater samples will be analyzed for TCL VOCs. The analytical methods used will be as per ASP 95-1 with Category B deliverables.

3.4 Direct-Push Groundwater Sampling Procedures

At each location to be sampled, a direct-push rig will be used to advance a decontaminated groundwater sampling rod to the desired sampling depths. The samples at each location will be obtained starting from the shallowest and proceeding to the deepest to reduce the potential for cross-contamination. Sampling rods will be decontaminated between sample depths. At each target depth, the sampling rod shall be opened and a groundwater sample shall be obtained by first purging sufficient groundwater through the rods so as to reduce sample turbidity. Purging shall be performed either manually or with a peristaltic pump a dedicated tubing shall be used for each sample. Following purging, each groundwater sample shall be placed directly from the sample tubing into laboratory-supplied sample bottles. The filled sample bottles will be labeled, managed, transported, and tracked as described in Section 3.3. The samples shall be analyzed for TCL VOCs as described in Section 3.3.

3.5 Direct-Push Soil Gas Sampling Procedures

At each location to be sampled, a direct-push rig will be used to advance a decontaminated soil gas sampling rod to the desired sampling depths. The samples at each location will be obtained starting from the shallowest and proceeding to the deepest to reduce the potential for cross-contamination. At each target depth, the sampling rod shall be opened and dedicated polyethylene tubing shall be inserted to the target depth. Sufficient air shall then be purged through the polyethylene tubing using an air pump so as to ensure that a sample of ambient soil vapor from the targeted depth is obtained. Following purging, the soil vapor sample shall be directed from the polyethylene tubing into a dedicated Tedlar bag. The filled bag shall be sealed, labeled, managed, transported, and tracked as described in Section 3.3. The samples shall be analyzed for VOCs using the TO-14 and TO-15 methods.

3.6 Receptor Survey Procedures

A receptor survey will be performed to evaluate the potential for public exposure to Site groundwater. The depth to groundwater at the Site is approximately 25 feet below grade and, as discussed in Section 2.1, there are no natural surface water bodies (streams, rivers, or lakes) which might receive groundwater

discharge within one mile downgradient of the Site. Therefore, it appears that there are no surface water receptors for groundwater discharge originating from the Site.

A survey of private supply wells within one-half mile downgradient of the Site and public supply wells and other types of wells within one mile downgradient of the Site will be conducted to evaluate the potential presence of groundwater receptors. The NYSDEC databases of public water supply wells and other types of wells (irrigation, non-contact cooling water, etc.) will be accessed and reviewed to evaluate if any of these types of wells are located within one mile downgradient of the Site.

To identify potential private wells, a survey will be performed by examining each residence or other building in this area from the vantage point of public streets to confirm that a public water supply connection is present as evidenced by the presence of a water meter or street markings. A list of properties which do not appear to have a public water supply connection will be compiled and transmitted to the local public water supply company (Garden City Village or Roosevelt Field Water Districts) which will be requested to confirm that each of the listed addresses has a public water supply connection. These data will be evaluated to ascertain if a potential for public exposure to Site groundwater is present, as discussed below.

3.7 Exposure Assessment

A qualitative human health exposure assessment shall be performed using the existing and newly-obtained Site data following guidance from the New York State Department of Health. The exposure assessment shall be performed by characterizing the exposure setting, identifying potential exposure pathways, and performing a qualitative evaluation of contaminant fate and transport.

Exposure pathways are the means by which individuals may be exposed to contaminants originating from the Site. A complete exposure pathway must include a contaminant source, contaminant release and transport mechanisms, a point at which an individual may become exposed, a route of exposure, and a receptor population. An exposure pathway is complete when all of these elements are present.

To perform the qualitative human health exposure assessment at this Site, the onsite and offsite conditions will be characterized using the existing and recently-obtained chemical analytical data for the environmental media (soil, groundwater and soil vapor). Potential exposure pathways will then be evaluated to assess if there is a potential for human health exposure to Site contaminants.

3.8 Reporting and Schedule

Following the first round of groundwater sampling at the monitoring wells, the resulting data shall be provided to the NYSDEC in a brief letter report. Following completion of the investigation, an Investigation Report will be prepared documenting the investigation procedures and results. The Investigation Report will be prepared in accordance with the NYSDEC's VCP Guide. The Investigation Report will include a summary of the work performed, the resulting chemical analytical data, an interpretation of the data and conclusions regarding the nature and extent of contamination at the Site. The exposure assessment, copies of all field logs, the complete laboratory analytical packages and the data usability summary report will be included in the Investigation Report.

A project schedule for the investigation is included on Figure 3.8.1.

3.9 Quality Assurance/Quality Control

The Data Quality Objectives (DQOs) for the Investigation will be applicable to all data-gathering activities at the Site. DQOs will be incorporated into sampling, analysis, and quality assurance tasks associated with the investigation.

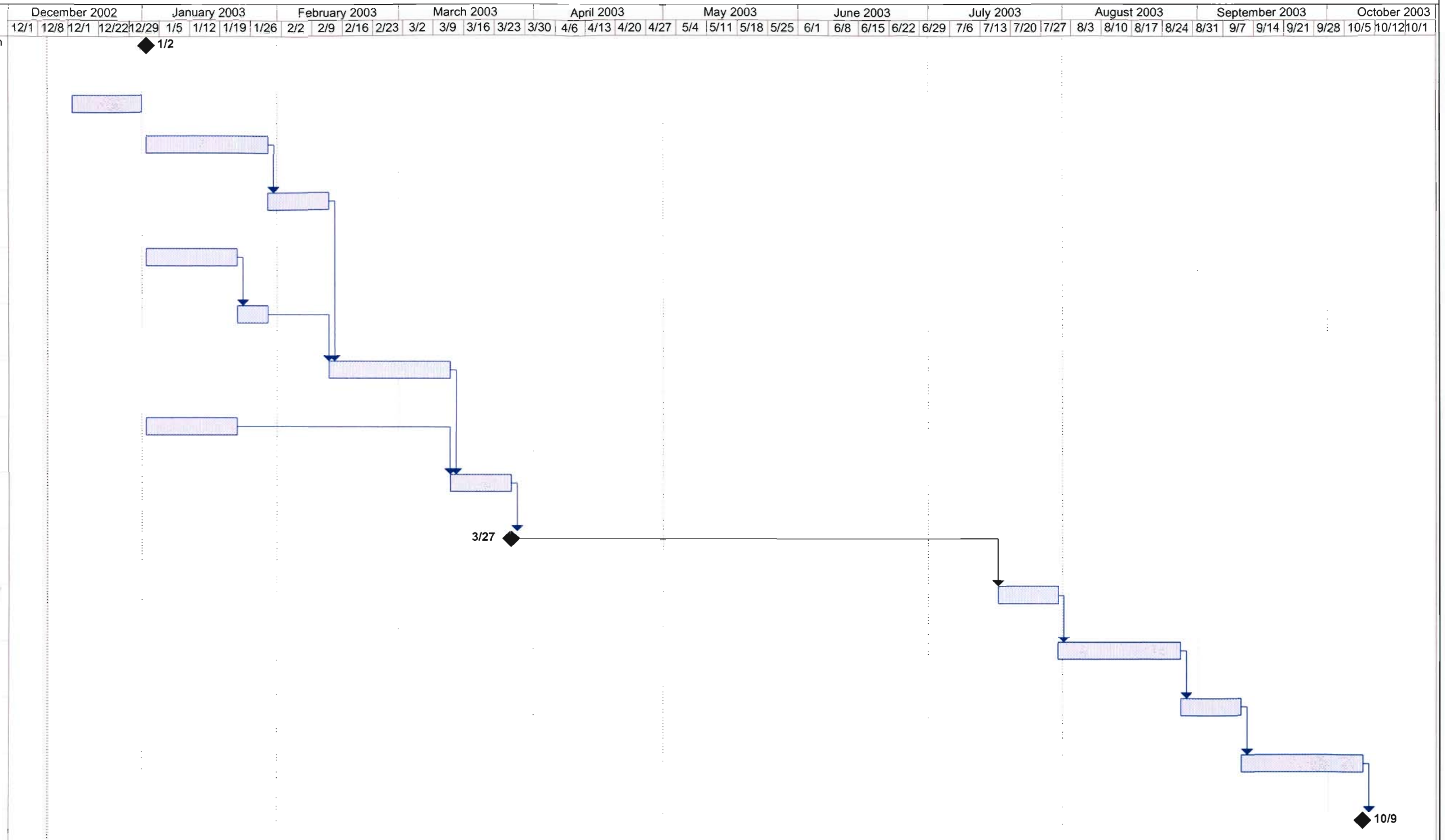
The primary data user for this project is FPM. NYSDEC will also be provided with the data. No other data users are anticipated.

The collected data are intended to assess the nature and extent of groundwater impacts at the Site. These data will allow for the evaluation and possible implementation of potential remedial alternatives, if warranted.

For this project, field screening will be performed during drilling and groundwater sampling. Field screening includes monitoring for organic vapors in the soil cuttings as they are generated by a drill rig and in the air in the work zone using a Photovac MicroTIP PID and visual observations of soil or groundwater characteristics. All readings and observations will be recorded by the FPM hydrogeologist in his or her field notebook.

FIGURE 3.8.1
INVESTIGATION SCHEDULE
WIN-HOLT EQUIPMENT CORPORATION
592 BROOK STREET, GARDEN CITY, NEW YORK

ID	Task Name
1	NYSDEC Approval of Investigation Work Plan
2	Prepare mailing list
3	Install, develop, and survey well W-7
4	First round sample wells W-1 through W-7
5	Utility markout and permits
6	Direct-push sampling, groundwater and soil vapor
7	Laboratory Analyses
8	Receptor Survey
9	Interim report
10	Interim report to NYSDEC
11	Second round sample wells W-2 through W-7
12	Laboratory analysis
13	Exposure Assessment
14	Investigation report
15	Investigation report to NYSDEC



Project: Figure 381
Date: Tue 12/10/02

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

clients\win-holt\Figure 381

FPM

3.9.1 Applicable or Relevant and Appropriate Requirements

The following applicable or relevant and appropriate requirements for the Site have been identified:

- The NYSDEC Recommended Soil Cleanup Objectives (TAGM #HWR-94-4046, 1995) which are used to evaluate soil sample chemical analytical results; and
- The NYSDEC Class GA Ambient Water Quality Standards (1998), which are used to evaluate the groundwater chemical analytical results.

3.9.2 Quality Assurance/Quality Control Procedures

Quality Assurance/Quality Control (QA/QC) procedures will be utilized during the performance of the investigation field work to ensure that the resulting chemical analytical data accurately represent subsurface conditions at the Site. The following sections include descriptions of the QA/QC procedures to be utilized.

Equipment Decontamination Procedures

All non-disposable downhole equipment (i.e., Geoprobe rods, split-spoon samplers, submersible pump) used during the subsurface investigation will be decontaminated by washing in a potable water and Alconox solution and rinsing in potable water prior to use at each location to reduce the potential for cross contamination. All sampling equipment will be either dedicated disposable equipment or will be decontaminated prior to use at each location. For groundwater well sampling, dedicated disposable bailers will be used to obtain groundwater samples. For the soil vapor sampling, dedicated disposable tubing shall be used to obtain samples. The decontamination procedures utilized for all non-disposable equipment sampling equipment will be as follows:

1. The equipment will be scrubbed in a bath of potable water and low-phosphate detergent followed by a potable water rinse;
2. The equipment will be rinsed with distilled water; and
3. The equipment will be allowed to air dry, if feasible, and wrapped in aluminum foil (shiny side out) for storage and transportation.

QA/QC Samples

QA/QC samples will be collected and utilized to evaluate the potential for field or laboratory contamination and to evaluate the laboratory's analytical precision and accuracy. A sampling chart showing the number and types of primary samples analytical methods, and QA/QC samples is shown on Table 3.9.2.1. The specific types of QA/QC samples to be collected are described below.

The decontamination procedures will be evaluated by the use of equipment blank samples. These samples consist of aliquots of laboratory-supplied water that are poured over or through the dedicated or decontaminated sampling equipment and then submitted to the laboratory for analysis. An equipment blank sample will be prepared for each matrix for each day that sampling is conducted at the Site and will be analyzed for the target constituents for that day. The equipment blanks will be labeled in a manner to prevent identification by the analytical laboratory.

Trip blank samples will be utilized to evaluate the potential for VOC cross-contamination between samples in the same cooler. Trip blank samples associated with groundwater samples consist of aliquots of laboratory water that are sealed in sample bottles at the laboratory and which are then transported to the field with the empty sample bottles. Trip blank samples associated with soil vapor samples consist of laboratory-provided, filled Tedlar bags that are transported to and in the field with the other Tedlar bags. A trip blank will be placed in each cooler containing samples to be analyzed for VOCs and will be managed in the field and analyzed in the laboratory in the same manner as the primary environmental samples.
Blind duplicate samples will be obtained at a frequency of at least one per every 10 environmental samples (10 percent) and will be used to attest to the precision of the laboratory. A blind duplicate consists of a separate aliquot of sample collected at the same time, in the same manner, and analyzed for the same parameters as the primary environmental sample. The blind duplicate samples are labeled in a manner such that they cannot be identified by the laboratory. The sample results are compared to those of the primary environmental sample to evaluate if the results are similar.

Matrix spike/matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 environmental samples. The purpose of the MS/MSD samples is to confirm the accuracy and precision of

TABLE 3.9.2.1
INVESTIGATION SAMPLING MATRIX
WIN-HOLT EQUIPMENT CORPORATION
592 AND 606 BROOK STREET, GARDEN CITY, NEW YORK

Sample Location/Type	Matrix	Number/Frequency	Analysis	Sample Bottles Preservation	Holding Time
Monitoring Wells	Groundwater	Six per quarter	TCL VOCs	Two to three glass VOA vials with HCL	14 days
Direct-push groundwater locations	Groundwater	Nine/once	TCL VOCs	Two to three glass VOA vials with HCL	14 days
Direct-push soil vapor locations	Soil vapor	12/once	VOCs	Tedlar bags	7 days
Equipment blanks	Lab water	One per day	TCL VOCs	Two to three glass VOA vials with HCL	14 days
Trip blanks	Lab water	One per cooler	TCL VOCs	Two to three glass VOA vials with HCL	14 days
	Lab air			Tedlar bag	7 days
Blind duplicates	Groundwater	One per 10 enviornmental samples	TCL VOCs	Two to three glass VOA vials with HCL	14 days
	Soil vapor			Tedlar bag	7 days
MS/MSD	Groundwater	One per 20 groundwater samples	TCL VOCs	Six to nine glass VOA vials with HCL	14 days

Notes:

MS/MSD = Matris spike/matrix spike duplicate.
TCL = Target Compound List
VOCs = Volatile organic compounds
HCL = hydrochloric acid

laboratory results based on a particular matrix. The MS/MSD results will be evaluated during the preparation of the Data Usability Summary Report (DUSR) as discussed below. such that they cannot be identified by the laboratory. The sample results are compared to those of the primary environmental sample to evaluate if the results are similar.

Matrix spike/matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 environmental groundwater samples. The purpose of the MS/MSD samples is to confirm the accuracy and precision of laboratory results based on a particular matrix. The MS/MSD results will be evaluated during the preparation of the Data Usability Summary Report (DUSR) as discussed below.

Chain-of-Custody Procedures

For each day of sampling, chain-of-custody (COC) sheets will be completed and submitted to the laboratory with the samples collected that day. A copy of each COC sheet will be retained by FPM for sample tracking purposes. Each COC sheet will include the project name, the sampler's signature, the sampling locations and intervals, and the analytical parameters requested.

Data Usability Summary Report

All chemical analytical results will be evaluated by the Quality Assurance Officer (QAO) using the sample data packages, sample data summary packages, and case narratives provided by the analytical laboratory. The data evaluation will be performed to verify that the analytical results are of sufficient quality to be relied upon to assess the potential contamination in the soil and groundwater at the Site. A DUSR shall be prepared following the "Guidance for the Development of Data Usability Summary Reports" provided by the NYSDEC. The resume of the anticipated QAO, Joe Camanzo, is included in Appendix C.

SECTION 4.0
REFERENCES

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SECTION 5.0
DISCLAIMER

Conclusions from this data are limited to those areas focused on in the study and represent our best judgment using analytical techniques and our past experience. Even though our investigation has been scientific and thorough, it is possible that certain areas of this property may pose environmental concerns that yet are undiscovered. In addition, environmental regulations may change in the future and could have an effect on our conclusions.

APPENDIX A

PREVIOUS INVESTIGATION DATA

FPM

DATA USABILITY SUMMARY REPORT
FOR SEPTEMBER 1995 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the available portions of the original laboratory report. Based on the pagination, additional pages were also generated by the laboratory. These additional pages were not available for review. The data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No QC data were provided and, therefore, it cannot be determined if the data fall within the protocol-required limits and specifications. No raw data were provided.

The sample was analyzed by NYTest Environmental, Inc., which is presently NYSDOH-certified for the analyses performed.

The sample was analyzed by SW846 Method 8240A, which is a legitimate analytical method for volatile organic compounds. The sample was also analyzed for eight RCRA metals. Analytical methods for the metals were not reported.

Although no chain-of-custody form was included in the available data package, the sample holding times were met based on the date of collection reported in an associated letter from the sampler.

The concentrations of three VOC analytes exceeded the calibration range of the instrument and, therefore, a diluted sample was analyzed so as to obtain quantified results for these analytes. The diluted results did not exceed the calibration range of the instrument. The correct data qualifiers have been used.

Conclusions:

Although incomplete information is available to completely evaluate the data validity, since these data were used to determine the nature of soil that was subsequently removed and disposed from the Site and were not used to confirm the condition of the remaining soil, these data appear to be adequate for their intended purpose.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WHMH

Lab Name: NYTEST ENV INC Contract: 9521957

Lab Code: NYTEST Case No.: 25057 SAS No.: SDG No.: 25057

Matrix: (soil/water) SOIL Lab Sample ID: 2505701

Sample wt/vol: 4.0 (g/mL) G Lab File ID: P7096.D

Level: (low/med) MED Date Received: 09/20/95

% Moisture: not dec. 0 Data Analyzed: 09/27/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1600	
75-09-2	Methylene Chloride	1300	B
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	19000	
540-59-0	1,2-Dichloroethene (total)	1800	
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	640	J
56-23-5	Carbon Tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	160000	E
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	200000	E
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
100-42-5	Styrene	1200	U
1330-20-7	Xylene (total)	59000	E
108-05-4	Vinyl Acetate	1200	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WHMH

Lab Name: NYTEST ENV INC Contract: 9521957

Lab Code: NYTEST Case No.: 25057 SAS No.: SDG No.: 25057

Matrix: (soil/water) SOIL Lab Sample ID: 2505701

Sample wt/vol: 4.0 (g/mL) G Lab File ID: P7096.D

Level: (low/med) MED Date Received: 09/20/95

% Moisture: not dec. 0 Data Analyzed: 09/27/95

Column: (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	12.935	4300	J
2.		UNKNOWN SILOXANE	13.142	1400	J
3.		UNKNOWN SILOXANE	14.431	690	J
4.		UNKNOWN AROMATIC	17.154	2200	J
5.		UNKNOWN AROMATIC	18.288	900	J
6.		UNKNOWN AROMATIC	19.949	1100	J
7.		UNKNOWN AROMATIC	20.268	2400	JB
8.		UNKNOWN AROMATIC	21.021	1100	J
9.		UNKNOWN AROMATIC	26.343	11000	J
10.		UNKNOWN AROMATIC	27.003	3600	J
11.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WHMHDL

Lab Name: NYTEST ENV INC Contract: 9521957

Lab Code: NYTEST Case No.: 25057 SAS No.: SDG No.: 25057

Matrix: (soil/water) SOIL Lab Sample ID: 2505701

Sample wt/vol: 4.0 (g/mL) G Lab File ID: P7099.D

Level: (low/med) MED Date Received: 09/20/95

% Moisture: not dec. 0 Data Analyzed: 09/27/95

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12000	U
74-83-9	Bromomethane	12000	U
75-01-4	Vinyl Chloride	12000	U
75-00-3	Chloroethane	12000	U
75-09-2	Methylene Chloride	35000	BD
67-64-1	Acetone	12000	U
75-15-0	Carbon Disulfide	12000	U
75-35-4	1,1-Dichloroethene	12000	U
75-34-3	1,1-Dichloroethane	22000	D
540-59-0	1,2-Dichloroethene (total)	1800	JD
67-66-3	Chloroform	6300	JD
107-06-2	1,2-Dichloroethane	12000	U
78-93-3	2-Butanone	12000	U
71-55-6	1,1,1-Trichloroethane	12000	U
56-23-5	Carbon Tetrachloride	12000	U
75-27-4	Bromodichloromethane	12000	U
78-87-5	1,2-Dichloropropane	12000	U
10061-01-5	cis-1,3-Dichloropropene	12000	U
79-01-6	Trichloroethene	160000	D
124-48-1	Dibromochloromethane	12000	U
79-00-5	1,1,2-Trichloroethane	12000	U
71-43-2	Benzene	9700	JD
10061-02-6	trans-1,3-Dichloropropene	12000	U
75-25-2	Bromoform	12000	U
108-10-1	4-Methyl-2-Pentanone	12000	U
591-78-6	2-Hexanone	12000	U
127-18-4	Tetrachloroethene	12000	U
79-34-5	1,1,2,2-Tetrachloroethane	12000	U
108-88-3	Toluene	120000	D
108-90-7	Chlorobenzene	12000	U
100-41-4	Ethylbenzene	9900	JD
100-42-5	Styrene	12000	U
1330-20-7	Xylene (total)	54000	D
108-05-4	Vinyl Acetate	12000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WHMHDL

Lab Name: NYTEST ENV INC Contract: 9521957

Lab Code: NYTEST Case No.: 25057 SAS No.: SDG No.: 25057

Matrix: (soil/water) SOIL Lab Sample ID: 2505701

Sample wt/vol: 4.0 (g/mL) G Lab File ID: P7099.D

Level: (low/med) MED Date Received: 09/20/95

% Moisture: not dec. 0 Data Analyzed: 09/27/95

Column: (pack/cap) CAP Dilution Factor: 10.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN AROMATIC	20.270	6800	JBD
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WHMH

Lab Name: NYTEST_ENV_INC Contract: 9521957

Lab Code: NYTEST Case No.: 25057 SAS No.: SDG No.: 25057

Matrix (soil/water): SOIL Lab Sample ID: 505701

Level (low/med): LOW Date Received: 09/20/95

% Solids: 100.0

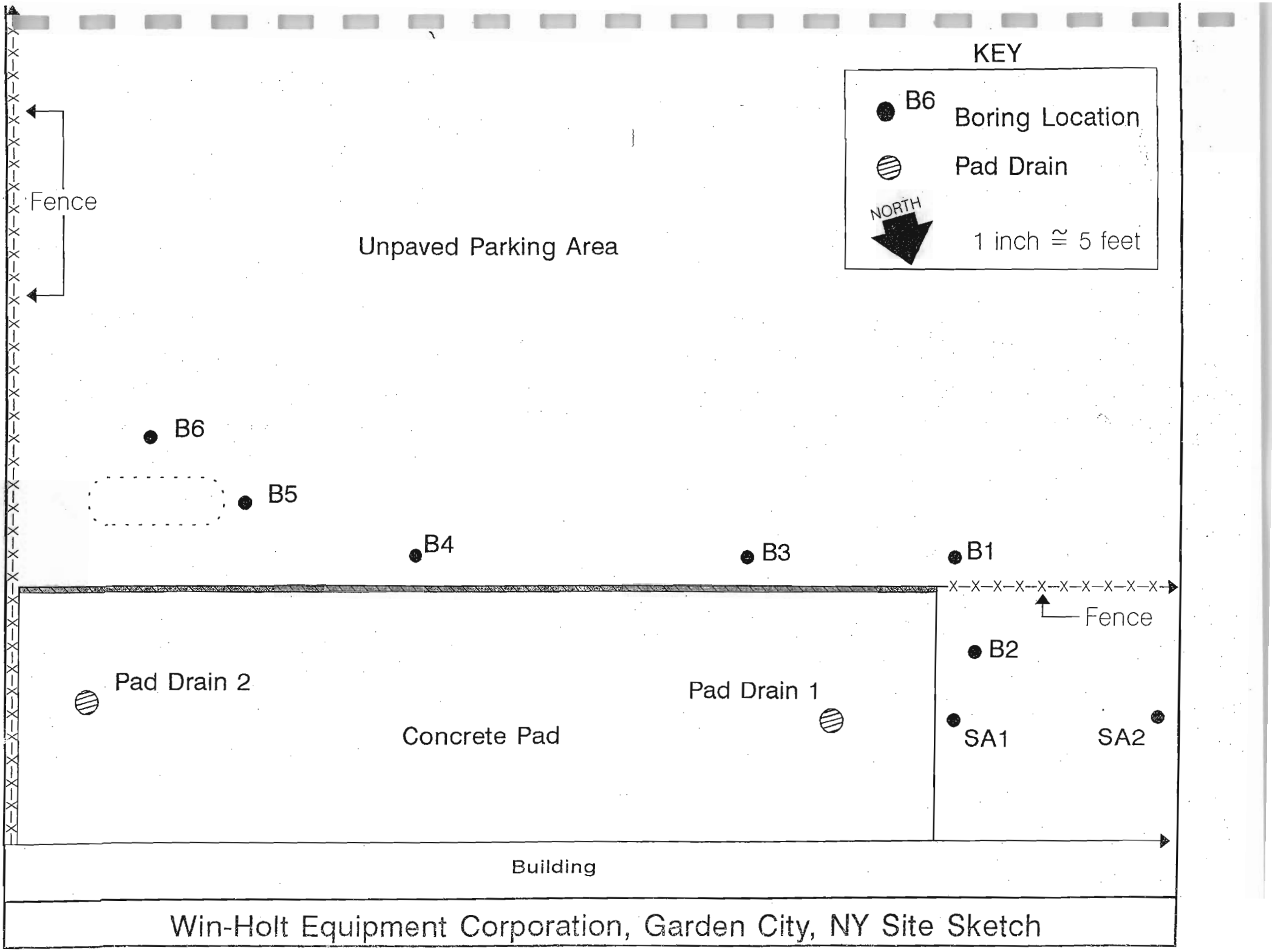
Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.34	U		P
7440-39-3	Barium	26.9			P
7440-43-9	Cadmium	1.3			P
7440-47-3	Chromium	979			P
7439-92-1	Lead	5160			P
7439-97-6	Mercury	0.02	U		CV
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.42	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:
MG/KG_AS_RECEIVED



Win-Holt Equipment Corporation, Garden City, NY Site Sketch

DATA USABILITY SUMMARY REPORT
FOR OCTOBER 1995 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC AP Category B or USEPA CLP deliverables. No QC data were provided and, therefore, it cannot be determined if the sample data fall within the protocol-required limits ad specifications No raw data were provided.

The samples were analyzed by Lancaster Laboratories, which is presently NYSDOH-certified for the analyses performed.

The samples were analyzed by EPA Methods 601 and 8010B, which are a legitimate analytical method for select volatile organic compounds. The samples were also analyzed for select metals. Analytical methods for the metals were not reported.

The sample holding times were met.

Due to dilution of two samples (B-2 5-7 feet and B-3 9-11 feet) made necessary by the high VOC concentrations present, normal quantitation limits were not met for these samples. Therefore, the results for the VOCs reported as "non-detect" in these samples may be biased low. The diluted results did not exceed the calibration range of the instrument. No data qualifiers have been used.

Conclusions:

These data were used to determine the nature of soil that was subsequently removed and disposed from the Site and were not used to confirm the condition of the remaining soil. Therefore, although the VOC results for two samples may be biased low, these data appear to be adequate for their intended purpose.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409105
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B2-57 Boring B2, 5'-7' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0146	Barium	81.	10.	mg/kg	101.	12.
0149	Cadmium	5.9	2.0	mg/kg	7.3	2.5
0151	Chromium	1,170.	4.0	mg/kg	1,450.	5.0
0155	Lead	5,580.	10.	mg/kg	6,950.	12.
5531	Halocarbons/Aromatics/Xylenes			See Page 2		
0111	Moisture	19.7	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

1 COPY TO Apex Environmental, Inc. ATTN: Mr. James F. Mattern

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300
04:50:56 D 0001 4 490457
882 40.00 00027300 ASR000

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

MEMBER ACIL
Lancaster Laboratories
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P.O. Box 12425
Lancaster, PA 17605-2425
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See reverse side for

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409105
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B2-57 Boring B2, 5'-7' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

AT No.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
	Halocarbons/Aromatics/Xylenes					
[illegible]07	Benzene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3130	Bromoform	< 2,000.	2,000.	ug/kg	< 2,000.	2,000.
3112	Bromomethane	< 5,000.	5,000.	ug/kg	< 6,000.	6,000.
[illegible]22	Carbon tetrachloride	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]09	Chlorobenzene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]32	Chlorodibromomethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3114	Chloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
5533	2-Chloroethylvinyl ether	< 10,000.	10,000.	ug/kg	< 10,000.	10,000.
[illegible]19	Chloroform	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]11	Chloromethane	< 5,000.	5,000.	ug/kg	< 6,000.	6,000.
5534	Dichlorobromomethane	< 10,000.	10,000.	ug/kg	< 10,000.	10,000.
3117	1,1-Dichloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]20	1,2-Dichloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]16	1,1-Dichloroethene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]18	1,2-Dichloroethene (cis/trans)	2,000.	1,000.	ug/kg	2,000.	1,000.
3124	1,2-Dichloropropane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3129	cis-1,3-Dichloropropene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]25	trans-1,3-Dichloropropene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]10	Ethylbenzene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3115	Methylene chloride	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3131	1,1,2,2-Tetrachloroethane	< 2,000.	2,000.	ug/kg	< 2,000.	2,000.
[illegible]32	Tetrachloroethene	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]08	Toluene	5,000.	1,000.	ug/kg	6,000.	1,000.
[illegible]21	1,1,1-Trichloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3128	1,1,2-Trichloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3126	Trichloroethene	160,000.	2,000.	ug/kg	200,000.	2,000.
[illegible]35	Trichlorofluoromethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
[illegible]13	Vinyl chloride	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
5536	Xylenes (total)	3,000.	1,000.	ug/kg	3,000.	1,000.

Under the analytical conditions of EPA methods 601 and 8010B, the cis and trans isomers of 1,2-dichloroethene coelute and cannot be distinguished from one another. The result reported above represents the total for both isomers.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425
717-656-2300 FAX 717-656-2681

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409105
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B2-57 Boring B2, 5'-7' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION

Halocarbons/Aromatics/Xylenes

Due to dilution of the sample made necessary by the high levels of trichloroethene, normal quantitation limits were not attained.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for bromodichloromethane.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ASL
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2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409106
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B2-911 Boring B2, 9'-11' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

LT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0146	Barium	12.	10.	mg/kg	13.	10.
0 9	Cadmium	< 2.0	2.0	mg/kg	< 2.1	2.1
0 1	Chromium	< 4.0	4.0	mg/kg	< 4.2	4.2
0155	Lead	< 10.	10.	mg/kg	< 10.	10.
5531	Halocarbons/Aromatics/Xylenes			See Page 2		
0 1	Moisture	4.2	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

1 COPY TO Apex Environmental, Inc. ATTN: Mr. James F. Mattern

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300
04:51:18 D 0001 4 490457
882 40.00 00027300 ASR000

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

MEMBER ACL
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2425 New Holland Pike
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Lancaster, PA 17605-2425

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409106
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B2-911 Boring B2, 9'-11' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
	Halocarbons/Aromatics/Xylenes					
3107	Benzene	< 50.	50.	ug/kg	< 50.	50.
3130	Bromoform	< 100.	100.	ug/kg	< 100.	100.
3112	Bromomethane	< 300.	300.	ug/kg	< 300.	300.
3122	Carbon tetrachloride	< 50.	50.	ug/kg	< 50.	50.
3109	Chlorobenzene	< 50.	50.	ug/kg	< 50.	50.
5532	Chlorodibromomethane	< 50.	50.	ug/kg	< 50.	50.
3114	Chloroethane	< 50.	50.	ug/kg	< 50.	50.
5533	2-Chloroethylvinyl ether	< 500.	500.	ug/kg	< 500.	500.
3119	Chloroform	< 50.	50.	ug/kg	< 50.	50.
3111	Chloromethane	< 300.	300.	ug/kg	< 300.	300.
5534	Dichlorobromomethane	< 50.	50.	ug/kg	< 50.	50.
3117	1,1-Dichloroethane	< 50.	50.	ug/kg	< 50.	50.
3120	1,2-Dichloroethane	< 50.	50.	ug/kg	< 50.	50.
3116	1,1-Dichloroethene	< 50.	50.	ug/kg	< 50.	50.
3118	1,2-Dichloroethene (cis/trans)	< 50.	50.	ug/kg	< 50.	50.
3124	1,2-Dichloropropane	< 50.	50.	ug/kg	< 50.	50.
3129	cis-1,3-Dichloropropene	< 50.	50.	ug/kg	< 50.	50.
3125	trans-1,3-Dichloropropene	< 50.	50.	ug/kg	< 50.	50.
3110	Ethylbenzene	< 50.	50.	ug/kg	< 50.	50.
3115	Methylene chloride	< 50.	50.	ug/kg	< 50.	50.
3131	1,1,2,2-Tetrachloroethane	< 100.	100.	ug/kg	< 100.	100.
3132	Tetrachloroethene	< 50.	50.	ug/kg	< 50.	50.
3108	Toluene	< 50.	50.	ug/kg	< 50.	50.
3121	1,1,1-Trichloroethane	< 50.	50.	ug/kg	< 50.	50.
3128	1,1,2-Trichloroethane	< 50.	50.	ug/kg	< 50.	50.
3126	Trichloroethene	140.	50.	ug/kg	150.	50.
5535	Trichlorofluoromethane	< 50.	50.	ug/kg	< 50.	50.
3113	Vinyl chloride	< 50.	50.	ug/kg	< 50.	50.
5536	Xylenes (total)	< 50.	50.	ug/kg	< 50.	50.

Under the analytical conditions of EPA methods 601 and 8010B, the cis and trans isomers of 1,2-dichloroethene coelute and cannot be distinguished from one another. The result reported above represents the total for both isomers.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425
717-656-2300 FAX 717-656-2681

See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409107
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B3-911 Boring B3, 9'-11' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

AT D.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0146	Barium	42.	10.	mg/kg	46.	11.
0149	Cadmium	< 2.0	2.0	mg/kg	< 2.2	2.2
0151	Chromium	32.3	4.0	mg/kg	35.1	4.3
0155	Lead	< 10.	10.	mg/kg	< 11.	11.
5531	Halocarbons/Aromatics/Xylenes			See Page 2		
0111	Moisture	7.9	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

1 COPY TO Apex Environmental, Inc. ATTN: Mr. James F. Mattern

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300
04:51:37 D 0001 4 490457
882 40.00 00027300 ASR000

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425
717-656-2300 FAX 717-656-2681

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409107
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B3-911 Boring B3, 9'-11' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	AS RECEIVED UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
	Halocarbons/Aromatics/Xylenes					
3107	Benzene	< 500.	500.	ug/kg	< 500.	500.
3130	Bromoform	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3112	Bromomethane	< 3,000.	3,000.	ug/kg	< 3,000.	3,000.
3122	Carbon tetrachloride	< 500.	500.	ug/kg	< 500.	500.
3109	Chlorobenzene	< 500.	500.	ug/kg	< 500.	500.
5532	Chlorodibromomethane	< 500.	500.	ug/kg	< 500.	500.
3114	Chloroethane	< 500.	500.	ug/kg	< 500.	500.
5533	2-Chloroethylvinyl ether	< 5,000.	5,000.	ug/kg	< 5,000.	5,000.
3119	Chloroform	< 500.	500.	ug/kg	< 500.	500.
3111	Chloromethane	< 3,000.	3,000.	ug/kg	< 3,000.	3,000.
5534	Dichlorobromomethane	< 5,000.	5,000.	ug/kg	< 5,000.	5,000.
3117	1,1-Dichloroethane	< 500.	500.	ug/kg	< 500.	500.
3120	1,2-Dichloroethane	< 500.	500.	ug/kg	< 500.	500.
3116	1,1-Dichloroethene	< 500.	500.	ug/kg	< 500.	500.
3118	1,2-Dichloroethene (cis/trans)	< 500.	500.	ug/kg	< 500.	500.
3124	1,2-Dichloropropane	< 500.	500.	ug/kg	< 500.	500.
3129	cis-1,3-Dichloropropene	< 500.	500.	ug/kg	< 500.	500.
3125	trans-1,3-Dichloropropene	< 500.	500.	ug/kg	< 500.	500.
3110	Ethylbenzene	< 500.	500.	ug/kg	< 500.	500.
3115	Methylene chloride	< 500.	500.	ug/kg	< 500.	500.
3131	1,1,2,2-Tetrachloroethane	< 1,000.	1,000.	ug/kg	< 1,000.	1,000.
3132	Tetrachloroethene	< 500.	500.	ug/kg	< 500.	500.
3108	Toluene	< 500.	500.	ug/kg	< 500.	500.
3121	1,1,1-Trichloroethane	< 500.	500.	ug/kg	< 500.	500.
3128	1,1,2-Trichloroethane	< 500.	500.	ug/kg	< 500.	500.
3126	Trichloroethene	35,000.	500.	ug/kg	38,000.	500.
5535	Trichlorofluoromethane	< 500.	500.	ug/kg	< 500.	500.
3113	Vinyl chloride	< 500.	500.	ug/kg	< 500.	500.
5536	Xylenes (total)	< 500.	500.	ug/kg	< 500.	500.

Under the analytical conditions of EPA methods 601 and 8010B, the cis and trans isomers of 1,2-dichloroethene coelute and cannot be distinguished from one another. The result reported above represents the total for both isomers.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425
717-656-2300 FAX 717-656-2681

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409107
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

B3-911 Boring B3, 9'-11' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION

Halocarbons/Aromatics/Xylenes

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for bromodichloromethane.

Due to dilution of the sample made necessary by the high levels of trichloroethene, normal quantitation limits were not attained.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409108
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

SA2-1 Soil Area 2, 1' Grab Soil Sample
Project# 951.040
STF-Garden City

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
0146	Barium	29.	10.	mg/kg	33.	11.
0149	Cadmium	< 2.0	2.0	mg/kg	< 2.3	2.3
0151	Chromium	85.5	4.0	mg/kg	96.3	4.5
0155	Lead	382.	10.	mg/kg	430.	11.
5531	Halocarbons/Aromatics/Xylenes			See Page 2		
0111	Moisture	11.2	0.5	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

1 COPY TO Apex Environmental, Inc. ATTN: Mr. James F. Mattern

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300
04:52:01 D 0001 4 490457
882 40.00 00027300 ASR000

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster, PA 17605-2425
717 656-2300 FAX 717 656-2681

See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 2409108
Collected: 10/31/95 by ST

Submitted: 11/ 2/95 Reported: 11/17/95
Discard: 12/ 2/95

Account No: 07113
Apex Environmental, Inc.
301 W. Lancaster Avenue
Shillington PA 19607

P.O. 951.040
Rel.

SA2-1 Soil Area 2, 1' Grab Soil Sample
Project# 951.040
STF-Garden City

LAT O.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED LIMIT OF QUANTITATION	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT LIMIT OF QUANTITATION
Halocarbons/Aromatics/Xylenes						
07	Benzene	< 50.	50.	ug/kg	< 60.	60.
3130	Bromoform	< 100.	100.	ug/kg	< 100.	100.
3112	Bromomethane	< 300.	300.	ug/kg	< 300.	300.
3122	Carbon tetrachloride	< 50.	50.	ug/kg	< 60.	60.
09	Chlorobenzene	< 50.	50.	ug/kg	< 60.	60.
32	Chlorodibromomethane	< 50.	50.	ug/kg	< 60.	60.
3114	Chloroethane	< 50.	50.	ug/kg	< 60.	60.
5533	2-Chloroethylvinyl ether	< 500.	500.	ug/kg	< 600.	600.
19	Chloroform	< 50.	50.	ug/kg	< 60.	60.
11	Chloromethane	< 300.	300.	ug/kg	< 300.	300.
3134	Dichlorobromomethane	< 50.	50.	ug/kg	< 60.	60.
3117	1,1-Dichloroethane	< 50.	50.	ug/kg	< 60.	60.
3120	1,2-Dichloroethane	< 50.	50.	ug/kg	< 60.	60.
16	1,1-Dichloroethene	< 50.	50.	ug/kg	< 60.	60.
18	1,2-Dichloroethene (cis/trans)	< 50.	50.	ug/kg	< 60.	60.
3124	1,2-Dichloropropane	< 50.	50.	ug/kg	< 60.	60.
3129	cis-1,3-Dichloropropene	< 50.	50.	ug/kg	< 60.	60.
25	trans-1,3-Dichloropropene	< 50.	50.	ug/kg	< 60.	60.
10	Ethylbenzene	< 50.	50.	ug/kg	< 60.	60.
3115	Methylene chloride	< 50.	50.	ug/kg	< 60.	60.
3131	1,1,2,2-Tetrachloroethane	< 100.	100.	ug/kg	< 100.	100.
3132	Tetrachloroethene	< 50.	50.	ug/kg	< 60.	60.
08	Toluene	< 50.	50.	ug/kg	< 60.	60.
21	1,1,1-Trichloroethane	< 50.	50.	ug/kg	< 60.	60.
3128	1,1,2-Trichloroethane	< 50.	50.	ug/kg	< 60.	60.
3126	Trichloroethene	< 50.	50.	ug/kg	< 60.	60.
35	Trichlorofluoromethane	< 50.	50.	ug/kg	< 60.	60.
13	Vinyl chloride	< 50.	50.	ug/kg	< 60.	60.
3136	Xylenes (total)	< 50.	50.	ug/kg	< 60.	60.

Under the analytical conditions of EPA methods 601 and 8010B, the cis and trans isomers of 1,2-dichloroethene coelute and cannot be distinguished from one another. The result reported above represents the total for both isomers.

Questions? Contact your Client Services Representative
Wendy K. Park at (717) 656-2300

Respectfully Submitted
Judy A. Colello, B.S.
Group Leader

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
P.O. Box 12425
Lancaster PA 17605-2425
717-656-2300 FAX 717-656-2681

#CCT4: 1113 SAMPLE#: 2409105-B

Apex environmental, inc.™

301 WEST LANCASTER AVENUE
READING, PENNSYLVANIA, 19607
TELEPHONE: (215) 777-8200

CHAIN OF CUSTODY RECORD

JOB NO.	JOB NAME	PROJECT MANAGER
951.040	STF - Garden City	Jim Mattern

SAMPLER(S): (Signature(s)) Stephen Tappert

(Printed) Stephen Tappert

SAMPLE ID	DATE	TIME	COMP.	GRAB	MATRIX	PRES.	STATION / LOCATION	NO. OF CONTAINERS	AROMATICS (8021)	HALOCARBONS (8021)	Pb, Cr, Cd, Ba	PARAMETERS	TURN-AROUND TIME	REMARKS
B2-S7	10/31			X		no	Boring B2, 5'-7'	1	X	X	X		10 Days	
B2-911	"			X		"	Boring B2, 9'-11'	1	X	X	X			
B3-911	"			X		"	Boring B3, 9'-11'	1	X	X	X			
SA2-1	"			X		"	Soil Area 2, 1'	1	X	X	X			

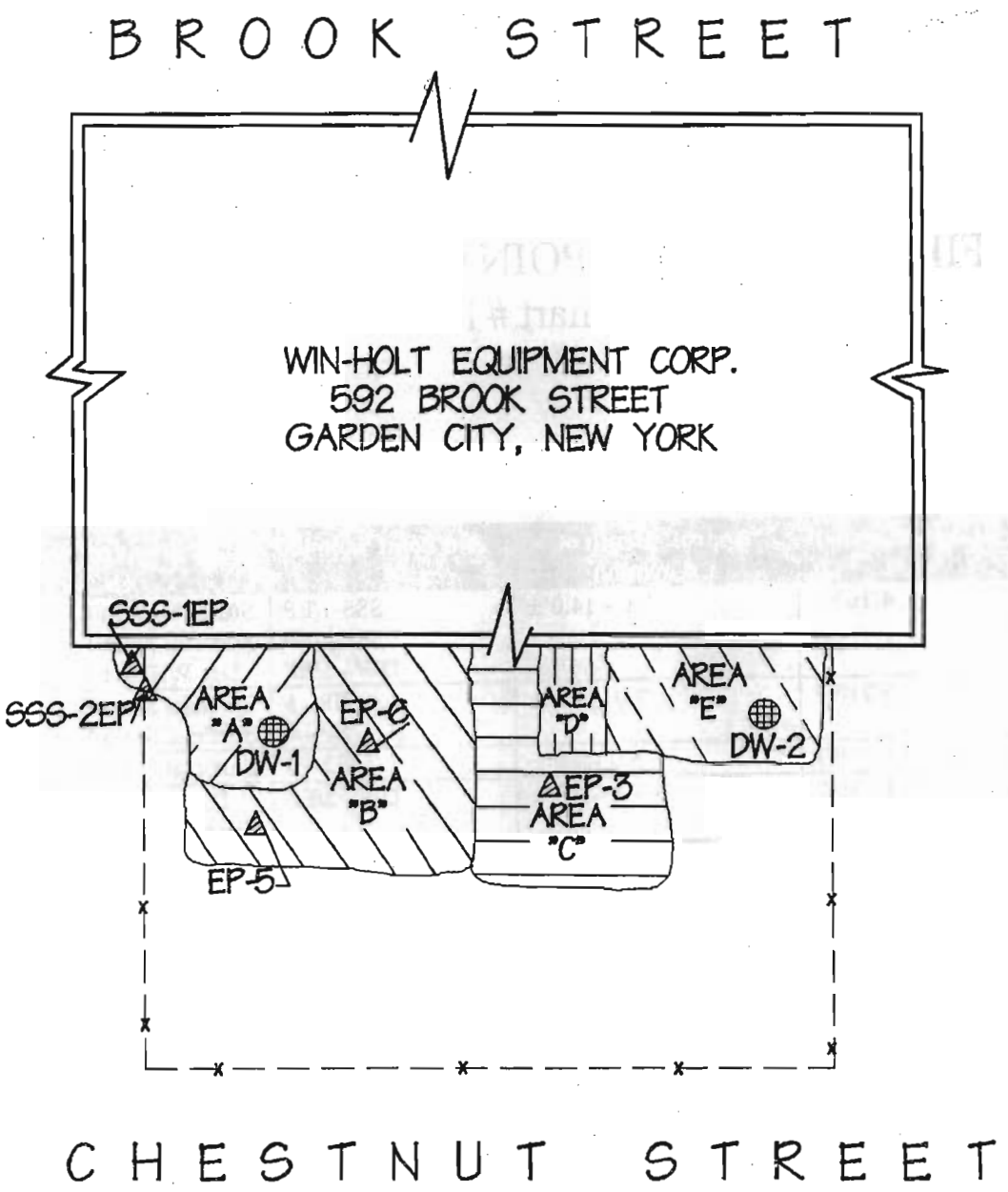
LANCASTER

TOTALS

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
① Stephen E. Tappert	11/2 1018	② Erma Dillman	③ Erma Dillman	11/2/95 12:55	④ K. Guito
(Printed) Stephen Tappert		(Printed) ERMA DILLMAN	(Printed) Erma Dillman		(Printed) K. Guito
Relinquished by: (Signature) ⑤	Date/Time	Received by: (Signature) ⑥	Remarks: AROMATICS/HALOCARBONS (XYLENES LLF # 5531 IN CASE OF SHORT SAMPLE, VOLATILES MORE IMPORTANT THAN Metals - Call (610) 777-8200		
(Printed)		(Printed)			

Distribution: WHITE => original (accompanies samples; returned with results) : YELLOW => laboratory copy : PINK => sampler's copy

1 of 1 pages



SOIL MECHANICS ENVIRONMENTAL SERVICES 3770 MERRICK ROAD – SEAFORD, L I, NEW YORK – (516) 221-7500		
SITE PLAN		
592 BROOK STREET GARDEN CITY, NEW YORK		
SCALE: NOT TO SCALE	DATE: MARCH 17, 1997	JOB NO. 966935
	REVISED:	N.A.R.

CONFIRMATORY END POINT SAMPLE SUMMARY
Chart #1

Location	Date Excavated	Approx. Depth of Excavation	End Point Sample #	Purpose
Area A	4/16/97	3.0 - 14.0'±	SSS-1/EP	Surficial Stain End Point
			SSS-2/EP	Surficial Stain End Point
			DW - 1/EP	Dry Well # 1 End Point
Area B	5/21/97	3.0 -13.0'±	EP - 5	Surficial Stain End Point
			EP - 6	Surficial Stain End Point
Area C	4/17/97	5.0 - 9.0'±	EP - 3	Surficial Stain End Point
Area D	4/18/97	5.0'± - 9.0'±	DW - 2/EP	Drywell # 2 End Point
Area E	4/15/97			Surficial Stain End Point

96-935

DATA USABILITY SUMMARY REPORT
FOR APRIL/MAY 1997 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory reports. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. Since no QC data were provided, it cannot be determined if the data fall within the protocol-required limits and specifications. No raw data were provided.

The samples were analyzed by EcoTest Laboratories, Inc., which is presently NYSDOH-certified (ID #10320) for the analyses performed.

The samples were analyzed by EPA Method 8260, which is a legitimate analytical method for volatile organic compounds. The samples were also analyzed for eight RCRA metals metals. Analytical methods for the metals were not reported. The samples were also analyzed for semivolatile organic compounds and Method 8270 was requested.

The sample holding times were met.

Due to dilution of one sample (DW-1/EP) made necessary by the high VOC concentrations present, normal quantitation limits were not met for this sample. Therefore, the results for the VOCs reported as "non-detect" in this sample may be biased low. No data qualifiers were used.

Conclusions:

These data were used to confirm the nature of soil that remained at the Site following remediation. Since the VOC results for one sample may be biased low, it is possible that additional VOCs may be present that were not detectable in this sample. However, since the detection limits for the non-detect analytes in this sample that had previously been detected in the vicinity of this sample location are generally within the same order of magnitude as the NYSDEC Objectives, it is unlikely that significant exceedances of the NYSDEC Objectives would be present in this sample.

The remaining data appear to be adequate for their intended purpose.

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C971665/2 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-1/EP, 11:30 am

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1000
Trichlorofluomethane	ug/Kg	<1000
1,1 Dichloroethene	ug/Kg	<1000
Methylene Chloride	ug/Kg	<1000
t-1,2-Dichloroethene	ug/Kg	<1000
1,1 Dichloroethane	ug/Kg	<1000
2,2-Dichloropropane	ug/Kg	<1000
c-1,2-Dichloroethene	ug/Kg	<1000
Bromochloromethane	ug/Kg	<1000
Chloroform	ug/Kg	<1000
111 Trichloroethane	ug/Kg	<1000
1,1-Dichloropropene	ug/Kg	<1000
Carbon Tetrachloride	ug/Kg	<1000
Benzene	ug/Kg	<1000
1,2 Dichloroethane	ug/Kg	<1000
Trichloroethylene	ug/Kg	<1000
1,2 Dichloropropane	ug/Kg	<1000
Bromodichloromethane	ug/Kg	<1000
Dibromomethane	ug/Kg	<1000
Toluene	ug/Kg	2200
112 Trichloroethane	ug/Kg	<1000
Tetrachloroethene	ug/Kg	<1000
1,3-Dichloropropane	ug/Kg	<1000
Chlorodibromomethane	ug/Kg	<1000
1,2 Dibromoethane	ug/Kg	<1000

ANALYTICAL PARAMETERS		
1112Tetrachloroethan	ug/Kg	<1000
Chlorobenzene	ug/Kg	<1000
Ethyl Benzene	ug/Kg	8100

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C971665/2 04/28/97

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3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick P0# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-1/EP, 11:30 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	570000	t-1,3Dichloropropene	ug/Kg	<1000
o Xylene	ug/Kg	250000	Acetone	ug/Kg	<10000
Styrene	ug/Kg	<1000			
Bromoform	ug/Kg	<1000			
Isopropylbenzene	ug/Kg	<1000			
1122Tetrachloroethan	ug/Kg	<1000			
Bromobenzene	ug/Kg	<1000			
123-Trichloropropane	ug/Kg	<1000			
n-Propylbenzene	ug/Kg	<1000			
2-Chlorotoluene	ug/Kg	<1000			
135-Trimethylbenzene	ug/Kg	5600			
4-Chlorotoluene	ug/Kg	<1000			
tert-Butylbenzene	ug/Kg	<1000			
124-Trimethylbenzene	ug/Kg	12000			
sec-Butylbenzene	ug/Kg	<1000			
p-Isopropyltoluene	ug/Kg	<1000			
1,2 Dichlorobenzene	ug/Kg	<1000			
1,3 Dichlorobenzene	ug/Kg	<1000			
1,4 Dichlorobenzene	ug/Kg	<1000			
DBCP	ug/Kg	<1000			
124-Trichlorobenzene	ug/Kg	<1000			
Hexachlorobutadiene	ug/Kg	<1000			
Naphthalene	ug/Kg	<1000			
123-Trichlorobenzene	ug/Kg	<1000			
c-1,3Dichloropropene	ug/Kg	<1000			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

DIRECTOR

rn= 11062 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/2 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-1/EP, 11:30 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	1.9	
Barium as Ba	mg/Kg	5.6	
Cadmium as Cd	mg/Kg	<0.1	
Chromium as Cr	mg/Kg	2.7	
Lead as Pb	mg/Kg	4.2	
Mercury as Hg	mg/Kg	0.007	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		96	

cc:

REMARKS:

DIRECTOR

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COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-1/EP, 11:30 am
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
is(2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
,2 Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
- itrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
itrobenzene	<30	Pyrene	<30
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
24-Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a hthalene	91	Chrysene	<30
e achlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	630
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	1100
- hloronaphthalene	<30	Benzo(b)fluoranthene	<30
i ethyl Phthalate	<30	Benzo(k)fluoranthene	<30
cenaphthylene	<30	Benzo(a)pyrene	<30
,6-Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
c naphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
iethyl Phthalate	<30		
l orene	<30		
- hlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

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ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/1 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/15/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-2/EP, 11:30 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1	1112Tetrachloroethan	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1	Chlorobenzene	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1	Ethyl Benzene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1			
t-1,2-Dichloroethene	ug/Kg	<1			
1,1 Dichloroethane	ug/Kg	<1			
2,2-Dichloropropane	ug/Kg	<1			
c-1,2-Dichloroethene	ug/Kg	<1			
Bromochloromethane	ug/Kg	<1			
Chloroform	ug/Kg	<1			
111 Trichloroethane	ug/Kg	<1			
1,1-Dichloropropene	ug/Kg	<1			
Carbon Tetrachloride	ug/Kg	<1			
Benzene	ug/Kg	<1			
1,2 Dichloroethane	ug/Kg	<1			
Trichloroethylene	ug/Kg	3			
1,2 Dichloropropane	ug/Kg	<1			
Bromodichloromethane	ug/Kg	<1			
Dibromomethane	ug/Kg	<1			
Toluene	ug/Kg	<1			
112 Trichloroethane	ug/Kg	<1			
Tetrachloroethene	ug/Kg	<1			
1,3-Dichloropropane	ug/Kg	<1			
Chlorodibromomethane	ug/Kg	<1			
1,2 Dibromoethane	ug/Kg	>1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/1 04/28/97

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ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/15/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-2/EP, 11:30 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	12	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	5	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	2			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/15/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-2/EP, 11:30 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	0.66	
Barium as Ba	mg/Kg	3.8	
Cadmium as Cd	mg/Kg	<0.1	
Chromium as Cr	mg/Kg	2.3	
Lead as Pb	mg/Kg	3.6	
Mercury as Hg	mg/Kg	0.0076	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		95	

cc:

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/1 04/28/97

Soil Mechanics
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Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/15/97 RECEIVED:04/17/97

SAMPLE: Soil sample, DW-2/EP, 11:30 am
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
i (2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
, Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
i robenzene	<30	Pyrene	<30
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
2 -Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a hthalene	<30	Chrysene	<30
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	220
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	360
- hloronaphthalene	<30	Benzo(b)fluoranthene	<30
imethyl Phthalate	<30	Benzo(k)fluoranthene	<30
cenaphthylene	<30	Benzo(a)pyrene	<30
, -Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
c naphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
i thyl Phthalate	<30		
l orene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C971665/3 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-1/EP, 12:30 pm

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1
t-1,2-Dichloroethene	ug/Kg	<1
1,1 Dichloroethane	ug/Kg	<1
2,2-Dichloropropane	ug/Kg	<1
c-1,2-Dichloroethene	ug/Kg	<1
Bromochloromethane	ug/Kg	<1
Chloroform	ug/Kg	<1
111 Trichloroethane	ug/Kg	<1
1,1-Dichloropropene	ug/Kg	<1
Carbon Tetrachloride	ug/Kg	<1
Benzene	ug/Kg	<1
1,2 Dichloroethane	ug/Kg	<1
Trichloroethylene	ug/Kg	2
1,2 Dichloropropane	ug/Kg	<1
Bromodichloromethane	ug/Kg	<1
Dibromomethane	ug/Kg	<1
Toluene	ug/Kg	<1
112 Trichloroethane	ug/Kg	<1
Tetrachloroethene	ug/Kg	1
1,3-Dichloropropane	ug/Kg	<1
Chlorodibromomethane	ug/Kg	<1
1,2 Dibromoethane	ug/Kg	<1

ANALYTICAL PARAMETERS		
1112Tetrachloroethan	ug/Kg	<1
Chlorobenzene	ug/Kg	<1
Ethyl Benzene	ug/Kg	<1

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/3 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-1/EP, 12:30 pm

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	18	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	8	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	<1			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	<1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

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LAB NO.C971665/3 04/28/97

Soil Mechanics
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Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-1/EP, 12:30 pm

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	1.9	
Barium as Ba	mg/Kg	16	
Cadmium as Cd	mg/Kg	<0.1	
Chromium as Cr	mg/Kg	7.4	
Lead as Pb	mg/Kg	4.7	
Mercury as Hg	mg/Kg	0.013	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		93	

cc:

REMARKS:

DIRECTOR

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ATTN: Carl Vernick P0# 1538

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COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-1/EP, 12:30 pm
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
i (2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
,2 Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
i robenzene	<30	Pyrene	<30
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
2 -Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a hthalene	<30	Chrysene	<30
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	<30
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	<30
- hloronaphthalene	<30	Benzo(b)fluoranthene	<30
imethyl Phthalate	<30	Benzo(k)fluoranthene	<30
cenaphthylene	<30	Benzo(a)pyrene	<30
, -Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
c naphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
ethyl Phthalate	<30		
l rene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

DIRECTOR

n= 11064 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C971665/4 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-2/EP, 12:45 pm

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1
t-1,2-Dichloroethene	ug/Kg	<1
1,1 Dichloroethane	ug/Kg	<1
2,2-Dichloropropane	ug/Kg	<1
c-1,2-Dichloroethene	ug/Kg	<1
Bromochloromethane	ug/Kg	<1
Chloroform	ug/Kg	<1
111 Trichloroethane	ug/Kg	<1
1,1-Dichloropropene	ug/Kg	<1
Carbon Tetrachloride	ug/Kg	<1
Benzene	ug/Kg	<1
1,2 Dichloroethane	ug/Kg	<1
Trichloroethylene	ug/Kg	3
1,2 Dichloropropane	ug/Kg	<1
Bromodichloromethane	ug/Kg	<1
Dibromomethane	ug/Kg	<1
Toluene	ug/Kg	<1
112 Trichloroethane	ug/Kg	<1
Tetrachloroethene	ug/Kg	2
1,3-Dichloropropane	ug/Kg	<1
Chlorodibromomethane	ug/Kg	<1
1,2 Dibromoethane	ug/Kg	<1

ANALYTICAL PARAMETERS		
1112Tetrachloroethan	ug/Kg	<1
Chlorobenzene	ug/Kg	<1
Ethyl Benzene	ug/Kg	<1

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/4 04/28/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick P0# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-2/EP, 12:45 pm

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	5	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	4	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	<1			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	<1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

DIRECTOR

rp= 11070 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C971665/4 04/28/97

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3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

SOURCE OF SAMPLE: Garden City, WIN-HOLT, #96-935
COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-2/EP, 12:45 pm

ANALYTICAL PARAMETERS		
Arsenic as As	mg/Kg	2.4
Barium as Ba	mg/Kg	15
Cadmium as Cd	mg/Kg	0.1
Chromium as Cr	mg/Kg	10
Lead as Pb	mg/Kg	11
Mercury as Hg	mg/Kg	0.014
Selenium as Se	mg/Kg	<0.4
Silver as Ag	mg/Kg	<0.1
% Solids		92

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR

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Seaford, NY 11783
ATTN: Carl Vernick PO# 1538

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COLLECTED BY: Client DATE COL'D:04/16/97 RECEIVED:04/17/97

SAMPLE: Soil sample, SSS-2/EP, 12:45 pm
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
i (2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
, Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
i robenzene	<30	Pyrene	<30
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
2 -Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a hthalene	<30	Chrysene	<30
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	36
e achlorocyclopentadiene	<300	Di-n-octyl Phthalate	67
- hloronaphthalene	<30	Benzo(b)fluoranthene	<30
imethyl Phthalate	<30	Benzo(k)fluoranthene	<30
enaphthylene	<30	Benzo(a)pyrene	<30
, -Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
naphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
i thyl Phthalate	<30		
l orene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

DIRECTOR

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377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C971730 05/01/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick P0# 1810

SOURCE OF SAMPLE: Garden City, Win-Holt, #96-935
COLLECTED BY: Client DATE COL'D:04/17/97 RECEIVED:04/22/97

SAMPLE: Soil sample, EP-3, 2:30 pm

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1
t-1,2-Dichloroethene	ug/Kg	<1
1,1 Dichloroethane	ug/Kg	<1
2,2-Dichloropropane	ug/Kg	<1
c-1,2-Dichloroethene	ug/Kg	<1
Bromochloromethane	ug/Kg	<1
Chloroform	ug/Kg	<1
111 Trichloroethane	ug/Kg	<1
1,1-Dichloropropene	ug/Kg	<1
Carbon Tetrachloride	ug/Kg	<1
Benzene	ug/Kg	<1
1,2 Dichloroethane	ug/Kg	<1
Trichloroethylene	ug/Kg	3
1,2 Dichloropropane	ug/Kg	<1
Bromodichloromethane	ug/Kg	<1
Dibromomethane	ug/Kg	<1
Toluene	ug/Kg	<1
112 Trichloroethane	ug/Kg	<1
Tetrachloroethene	ug/Kg	<1
1,3-Dichloropropane	ug/Kg	<1
Chlorodibromomethane	ug/Kg	<1
1,2 Dibromoethane	ug/Kg	<1

ANALYTICAL PARAMETERS		
1112Tetrachloroethan	ug/Kg	<1
Chlorobenzene	ug/Kg	<1
Ethyl Benzene	ug/Kg	<1

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

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LAB NO.C971730 05/01/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1810

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COLLECTED BY: Client DATE COL'D:04/17/97 RECEIVED:04/22/97

SAMPLE: Soil sample, EP-3, 2:30 pm

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	<2	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	<1	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	<1			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	<1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
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SAMPLE: Soil sample, EP-3, 2:30 pm

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	0.55	
Barium as Ba	mg/Kg	13	
Cadmium as Cd	mg/Kg	0.28	
Chromium as Cr	mg/Kg	7.1	
Lead as Pb	mg/Kg	1.6	
Mercury as Hg	mg/Kg	<0.005	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		96	

cc:

REMARKS:

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SAMPLE: Soil sample, EP-3, 2:30 pm
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
i (2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
, Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
i robenzene	<30	Pyrene	<30
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
2 -Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a nthalene	<30	Chrysene	<30
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	<30
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	<30
- hloronaphthalene	<30	Benzo(b)fluoranthene	<30
imethyl Phthalate	<30	Benzo(k)fluoranthene	<30
enaphthylene	<30	Benzo(a)pyrene	<30
, -Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
naphthene	<30	Dibenzo(a,h)anthracene	<30
.4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
thyl Phthalate	<30		
rene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

DIRECTOR

11514 NYSDOH ID# 10320

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

CHAIN OF CUSTODY

LABORATORY: ECOTEST

PROJECT NAME: GARDEN CITY (WIN - HOLD)

PROJECT NO.: 96-935

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS: P.P METALS	LEAD	TPHC	CYANIDE	VOA	BTX	PCB	PEST.	HERB.	A/E	B/N	OTHER	ADDITIONAL REQUIREMENTS
DW-2/EP	4-15-97	11:30 AM		✓	SOIL	DRYWELL #2 (EAST) (-9')	3													ALL SAMPLES
DW-1/EP	4-16-97	11:30 AM		✓	SOIL	DRYWELL #1 (WEST) (-14')	3													8270 (FULL) 8260 8 RCRA METALS
SS-1/EP	4-16-97	12:30 PM		✓	SOIL	SURFICALLY STAINED SOIL SW WEST OF PAD (-3')	2													
SS-2/EP	4-16-97	12:45 PM		✓	SOIL	SURFICALLY STAINED SOIL WEST OF PAD	2													TWO (2) WEEK TURNAROUND
SC-1	4-16-97	1:00 PM	✓		SOIL	STOCK PILE COMPOSITE	3													(HOLD FOR PARAMETERS)

RELINQUISHED BY (SIGNATURE)	DATE/TIME	AGENT OF:	REC'D. BY (SIGNATURE)	DATE/TIME / AGENT:
PRINTED NAME			PRINT. NME.	
RELINQ. BY (SIG.)	DATE/TIME	AGENT OF:	REC'D. BY (SIGN.)	DATE/TIME / AGENT:
PRINT. NME.			PRINT. NME.	
RELINQ. BY (SIG.) Brett Boerner	DATE/TIME 4-17-97 1147 AM	RECEIVED FOR LAB BY: [signature]	DATE/TIME 4/17/97 1147 AM	REMARKS: P.O. # 1538
PRINT. NME. BRETT T BOERNER		PRINT. NME. [signature]		
SAMPLER (SIGNATURE)		SAMPLER NAME (PRINT): DANIEL MARZANO		

FILE COPY

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

CHAIN OF CUSTODY

LABORATORY: ECOTEST

TWO (2) WEEK TURNAROUND

PROJECT NAME: GARDEN CITY WIN-HOLT

PROJECT NO. 96-935

SAMPLE ID. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS: P.P. METALS	LEAD	TPHC	CYANIDE	VOA	BTX	PCB	PEST.	HERB.	A/E	BIN	OTHER	ADDITIONAL REQUIREMENTS
																				ALL SAMPLES
EP-3	4-17-97	2:30 PM		✓	SOIL	END POINT #3 (-5')	2				✓						✓	✓		8270 (FULL)
																				8260
		2:30 PM		✓		END POINT #4 (-5')					✓						✓	✓		8 RCRA METALS
	SAME																			
																				TWO (2) WEEK TURNAROUND

RELINQUISHED BY (SIGNATURE)	DATE/TIME	AGENT OF:	REC'D. BY (SIGNATURE)	DATE/TIME	AGENT:
PRINTED NAME			PRNT. NME.		
RELINQ. BY (SIG.)	DATE/TIME 4-21-97 7:30 PM	AGENT OF: SOIL MECH.	REC'D. BY (SIGN.)	DATE/TIME 4-21-97 7:30 PM	AGENT: SOIL MECH.
PRINT. NME. DANIEL MARZANO			PRNT. NME. DAVID M. SHENCOWITZ		
RELINQ. BY (SIG.)	DATE/TIME 4/22/97 8:43	RECEIVED FOR LAB BY:	DATE/TIME 4/22/97 8:43	REMARKS: P.O. 1810	
PRINT. NME. DAVID M. SHENCOWITZ		PRINT. NME. EMVOLL			
SAMPLER (SIGNATURE)		SAMPLER NAME (PRINT)			

FILE COPY

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972208/1 06/04/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-5, 13'

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1	1112Tetrachloroethan	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1	Chlorobenzene	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1	Ethyl Benzene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1			
t-1,2-Dichloroethene	ug/Kg	<1			
1,1 Dichloroethane	ug/Kg	<1			
2,2-Dichloropropane	ug/Kg	<1			
c-1,2-Dichloroethene	ug/Kg	<1			
Bromochloromethane	ug/Kg	<1			
Chloroform	ug/Kg	<1			
111 Trichloroethane	ug/Kg	<1			
1,1-Dichloropropene	ug/Kg	<1			
Carbon Tetrachloride	ug/Kg	<1			
Benzene	ug/Kg	<1			
1,2 Dichloroethane	ug/Kg	<1			
Trichloroethylene	ug/Kg	1			
1,2 Dichloropropane	ug/Kg	<1			
Bromodichloromethane	ug/Kg	<1			
Dibromomethane	ug/Kg	<1			
Toluene	ug/Kg	<1			
112 Trichloroethane	ug/Kg	<1			
Tetrachloroethene	ug/Kg	<1			
1,3-Dichloropropane	ug/Kg	<1			
Chlorodibromomethane	ug/Kg	<1			
1,2 Dibromoethane	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

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LAB NO.C972208/1 06/04/97

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ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-5, 13'

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	<2	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	<1	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	<1			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	<1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

DIRECTOR

rp= 14287 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972208/1 06/04/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick P0# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-5, 13'

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	3.8	
Barium as Ba	mg/Kg	6.2	
Cadmium as Cd	mg/Kg	<0.1	
Chromium as Cr	mg/Kg	4.5	
Lead as Pb	mg/Kg	1.1	
Mercury as Hg	mg/Kg	<0.005	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		96	

cc:

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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LAB NO.C972208/1 06/04/97

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3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-5, 13'
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
is(2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
,3 Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
,2 Dichlorobenzene	<30	Anthracene	<30
is(2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	<30
exachloroethane	<30	Benzidine	<300
itrobenzene	<30	Pyrene	<30
sophorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	<30
2,-Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
aphthalene	<30	Chrysene	<30
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	<30
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	<30
-Chloronaphthalene	<30	Benzo(b)fluoranthene	<30
imethyl Phthalate	<30	Benzo(k)fluoranthene	<30
cenaphthylene	<30	Benzo(a)pyrene	<30
,6-Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	<30
cenaphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	<30
iethyl Phthalate	<30		
luorene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972208/2 06/04/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-6, 4'

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<1
Trichlorofluomethane	ug/Kg	<1
1,1 Dichloroethene	ug/Kg	<1
Methylene Chloride	ug/Kg	<1
t-1,2-Dichloroethene	ug/Kg	<1
1,1 Dichloroethane	ug/Kg	<1
2,2-Dichloropropane	ug/Kg	<1
c-1,2-Dichloroethene	ug/Kg	<1
Bromochloromethane	ug/Kg	<1
Chloroform	ug/Kg	<1
111 Trichloroethane	ug/Kg	<1
1,1-Dichloropropene	ug/Kg	<1
Carbon Tetrachloride	ug/Kg	<1
Benzene	ug/Kg	<1
1,2 Dichloroethane	ug/Kg	<1
Trichloroethylene	ug/Kg	1
1,2 Dichloropropane	ug/Kg	<1
Bromodichloromethane	ug/Kg	<1
Dibromomethane	ug/Kg	<1
Toluene	ug/Kg	<1
112 Trichloroethane	ug/Kg	<1
Tetrachloroethene	ug/Kg	<1
1,3-Dichloropropane	ug/Kg	<1
Chlorodibromomethane	ug/Kg	<1
1,2 Dibromoethane	ug/Kg	<1

ANALYTICAL PARAMETERS		
1112Tetrachloroethan	ug/Kg	<1
Chlorobenzene	ug/Kg	<1
Ethyl Benzene	ug/Kg	<1

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972208/2 06/04/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-6, 4'

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
m + p Xylene	ug/Kg	<2	t-1,3Dichloropropene	ug/Kg	<1
o Xylene	ug/Kg	<1	Acetone	ug/Kg	<10
Styrene	ug/Kg	<1			
Bromoform	ug/Kg	<1			
Isopropylbenzene	ug/Kg	<1			
1122Tetrachloroethan	ug/Kg	<1			
Bromobenzene	ug/Kg	<1			
123-Trichloropropane	ug/Kg	<1			
n-Propylbenzene	ug/Kg	<1			
2-Chlorotoluene	ug/Kg	<1			
135-Trimethylbenzene	ug/Kg	<1			
4-Chlorotoluene	ug/Kg	<1			
tert-Butylbenzene	ug/Kg	<1			
124-Trimethylbenzene	ug/Kg	<1			
sec-Butylbenzene	ug/Kg	<1			
p-Isopropyltoluene	ug/Kg	<1			
1,2 Dichlorobenzene	ug/Kg	<1			
1,3 Dichlorobenzene	ug/Kg	<1			
1,4 Dichlorobenzene	ug/Kg	<1			
DBCP	ug/Kg	<1			
124-Trichlorobenzene	ug/Kg	<1			
Hexachlorobutadiene	ug/Kg	<1			
Naphthalene	ug/Kg	<1			
123-Trichlorobenzene	ug/Kg	<1			
c-1,3Dichloropropene	ug/Kg	<1			

cc:

REMARKS: Analysis was performed by GC/MS, EPA Method 8260.
Page 2 of 2.

DIRECTOR

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LAB NO.C972208/2 06/04/97

Soil Mechanics
3770 Merrick Road
Seaford, NY 11783
ATTN: Carl Vernick PO# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-6, 4'

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/Kg	0.70	
Barium as Ba	mg/Kg	4.4	
Cadmium as Cd	mg/Kg	<0.1	
Chromium as Cr	mg/Kg	2.7	
Lead as Pb	mg/Kg	1.5	
Mercury as Hg	mg/Kg	<0.005	
Selenium as Se	mg/Kg	<0.4	
Silver as Ag	mg/Kg	<0.1	
% Solids		98	

cc:

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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ATTN: Carl Vernick P0# 1544

SOURCE OF SAMPLE: Garden City, WIN HOLT, #96-935
COLLECTED BY: Client DATE COL'D:05/21/97 RECEIVED:05/22/97

SAMPLE: Soil sample, EP-6, 4'
UNITS: ug/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
-Nitrosodimethylamine	<30	1,2-Diphenylhydrazine	<30
i (2-chloroethyl)ether	<30	4-Bromophenyl phenyl ether	<30
, Dichlorobenzene	<30	Hexachlorobenzene	<30
,4 Dichlorobenzene	<30	Phenanthrene	<30
,2 Dichlorobenzene	<30	Anthracene	<30
i (2-chloroisopropyl)ether	<30	Di-n-Butyl Phthalate	<30
-Nitrosodi-n-propylamine	<30	Fluoranthene	160
exachloroethane	<30	Benzidine	<300
i robenzene	<30	Pyrene	120
s phorone	<30	BenzylButylPhthalate	<30
is(2-chloroethoxy)methane	<30	Benzo(a)anthracene	73
2 -Trichlorobenzene	<30	3,3'-Dichlorobenzidine	<300
a hthalene	<30	Chrysene	53
exachlorobutadiene	<30	Bis(2-ethylhexyl)phthalate	<30
exachlorocyclopentadiene	<300	Di-n-octyl Phthalate	<30
- hloronaphthalene	<30	Benzo(b)fluoranthene	75^^
imethyl Phthalate	<30	Benzo(k)fluoranthene	75^^
cenaphthylene	<30	Benzo(a)pyrene	85
, -Dinitrotoluene	<30	Indeno(1,2,3-cd)pyrene	30
c naphthene	<30	Dibenzo(a,h)anthracene	<30
,4-Dinitrotoluene	<30	Benzo(ghi)perylene	32
i thyl Phthalate	<30		
l orene	<30		
-Chlorophenyl phenyl ether	<30		
-Nitrosodiphenylamine	<30		

cc:

REMARKS: ^^Total = 150 ug/Kg, unable to separate isomers.

DIRECTOR

CP= 14289 NYSDOH ID# 10320

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

CHAIN OF CUSTODY

LABORATORY: ECOTEST

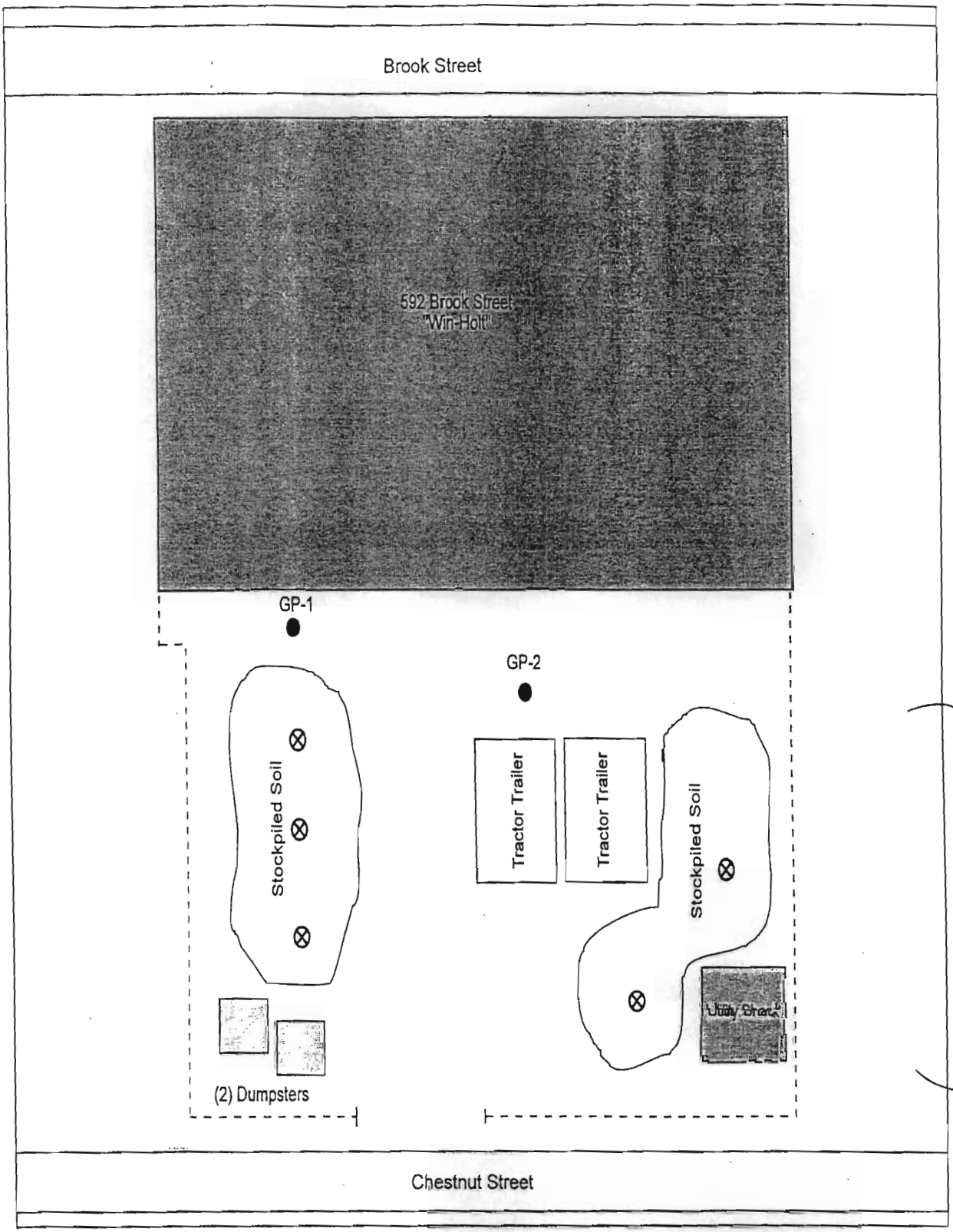
PROJECT NAME: GARDEN CITY — WIN HOLT

PROJECT NO. 96-935

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS: P.P METALS	LEAD	TPHC	CYANIDE	VOA	BTX	PCB	PEST.	HERB.	A/E	B/N	OTHER	ADDITIONAL REQUIREMENTS
P-5	5-21-97	—	✓	✓	SOIL	END POINT 13'	2													8270 FULL 8260
P-6	5-21-97	—		✓	SOIL	END POINT 4'	2													8 RCRA

RELINQUISHED BY (SIGNATURE)	DATE/TIME	AGENT OF:	REC'D. BY (SIGNATURE)	DATE/TIME	AGENT:
PRINTED NAME			PRNT. NME.		
RELINQUISHED BY (SIG.)	DATE/TIME	AGENT OF:	REC'D. BY (SIGN.)	DATE/TIME	AGENT:
PRINT. NME.			PRNT. NME.		
RELINQUISHED BY (SIG) Brett T. Boerner	DATE/TIME 5/22/97 1330	RECEIVED FOR LAB BY: SIMON	DATE/TIME 5/22/97 1330	REMARKS: P.O. 1544	
PRINT NME. Brett T. Boerner		PRNT. NME. SIMON			
SAMPLER (SIGNATURE) Brett T. Boerner		SAMPLER NAME (PRINT) Brett T. Boerner			

FILE COPY



"Win-Holt" 592 Brook Street Garden City, New York (Sketch not to scale)	● Soil Boring - - - - - Chain-linked Fence ⊗ Composite Sample Obtained	N W E S	American Environmental Assessment Corp. Figure 2: Site Plan

DATA USABILITY SUMMARY REPORT
FOR AUGUST 1997 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No QC data were provided and, therefore, it could not be determined if the data fall within the protocol-required limits and specifications. No raw data were provided.

The samples were analyzed by American Analytical Laboratories., which is presently NYSDOH-certified for the analyses performed.

The samples were analyzed by EPA Method 602, which is a legitimate analytical method for BTEX.

The sample holding times were met.

Due to dilution of two samples (GP-1 22-24 and GP-1 GW-28) made necessary by the high concentrations present, normal quantitation limits were not met for benzene in these samples. Therefore, the results for benzene reported as "non-detect" in these samples may be biased low. No data qualifiers were used.

Conclusions:

These data were used to evaluate Site soil and groundwater conditions for select analytes following remediation. Since the benzene results for two samples may be biased low, it is possible that benzene may have been present that was not detectable in these samples.

The remaining data appear to be adequate for their intended purpose.

AMERICAN
ANALYTICAL
LABORATORIES

August 14, 1997

Ms. Trixi Packmohr
American Environmental Assessment
56 Toledo Plaza
Farmingdale, New York 11735

Re: Winholt

Dear Ms. Packmohr:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on August 7, 1997. The sample was analyzed by American Analytical Laboratories, Inc. on August 13, 1997 for the following:

Client Sample ID	Analytical Method
GP-1-28-30	BTEX
GP-1-22-24	BTEX
GP-2-30	BTEX
GP-1-GW-28	BTEX

If you have any questions or require further information, please call at your convenience. American Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,
American Analytical Laboratories, Inc.

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Winholt (GP-1-22-24)
Date received: 08/07/97	Laboratory ID: 9716913
Date extracted: 08/11/97	Matrix: Soil
Date analyzed: 08/11/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/kg
BENZENE	71-43-2	<500
TOLUENE	108-88-3	823
ETHYL BENZENE	100-41-4	14,083
XYLENES (Total)	1330-20-7	110,885

* MDL's are raised due to high levels of target compounds.

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Winholt (GP-1-28-30)
Date received: 08/07/97	Laboratory ID: 9716912
Date extracted: 08/11/97	Matrix: Soil
Date analyzed: 08/11/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/kg
BENZENE	71-43-2	<5
TOLUENE	108-88-3	<5
ETHYL BENZENE	100-41-4	<5
XYLENES (Total)	1330-20-7	<15

Michael Venditti

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Winholt (GP-1-GW-28)
Date received: 08/07/97	Laboratory ID: 9716915
Date extracted: 08/13/97	Matrix: Liquid
Date analyzed: 08/13/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<500
TOLUENE	108-88-3	7,167
ETHYL BENZENE	100-41-4	11,448
XYLENES (Total)	1330-20-7	66,457

*MDL's are raised due to high levels of target compounds.

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Winholt (GP-2-30)
Date received: 08/07/97	Laboratory ID: 9716914
Date extracted: 08/11/97	Matrix: Liquid
Date analyzed: 08/11/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<1
TOLUENE	108-88-3	1
ETHYL BENZENE	100-41-4	<1
XYLENES (Total)	1330-20-7	5

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NY 11735 • (516) 454-6100 • FAX (516) 454-8027

NYSDOH ELAP 11418
AIHA PAT, LPAT 15668

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: AEAC

CONTACT: KEVIN

SAMPLER (SIGNATURE): Kevin O. Reilly

DATE: 8/7/97

TIME:

SAMPLER NAME (PRINT): KEVIN REILLY

SAMPLE(S) SEALED: (YES) / NO

CORRECT CONTAINER(S): (YES) / NO

PROJECT LOCATION: WINHOLT 592 BROOK ST, GARDEN CITY

ANALYSIS REQUIRED: BTEX

LABORATORY ID #	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	BTEX	P.O.#
9716912	S	G	4°c	GP-1-28-30	X	
9716913	S	G	4°c	GP-1-22-24	X	
9716914	L	G	4°c	GW-2-30	X	
9716915	L	G	4°c	GP-1-GW-28	X	

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL

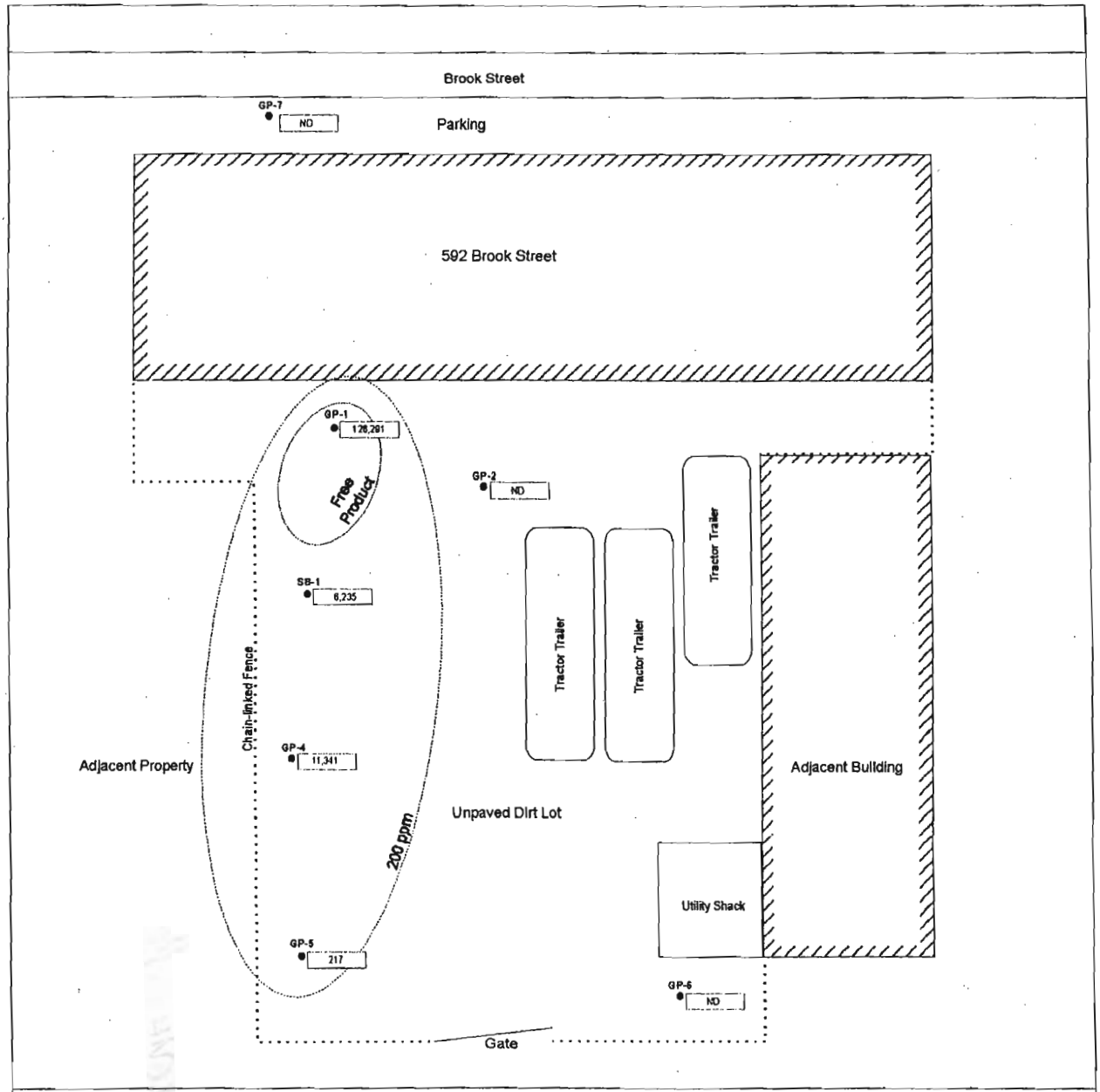
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON

TURNAROUND REQUIRED: NORMAL (X) STAT ☐ BY 8/13

COMMENTS / INSTRUCTIONS: run for * COD, BOD, PH later

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Kevin O. Reilly	8/7/97	KEVIN O. REILLY	D Kung	8.7 300	
/					

WHITE-OFFICE / YELLOW-LAB / PINK-CLIENT



Legend

ND	Total BTEX Concentration (ppb)
ND	Non-Detect
.....	BTEX Contour Line

Estimated Ground Water Flow

Groundwater Quality Summary

0 10 20 30 40 50 Ft

American Environmental Assessment Corporation

Win-Holt Equipment
592 Brook Street
Garden City, New York

Drawn By	Date	Drawing Number	Scale
KR	12/10/97	1012	1"=30'

DATA USABILITY SUMMARY REPORT
FOR NOVEMBER 1997 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No QC data were provided and, therefore, it could not be determined if the data fall within the protocol-required limits and specifications. No raw data were provided.

The samples were analyzed by American Analytical Laboratories, which is presently NYSDOH-certified for the analyses performed.

The samples were analyzed by EPA Method 602, which is a legitimate analytical method for BTEX.

The sample holding times were met.

Due to dilution of two samples (SB-1 and GP-4) made necessary by the high concentrations present, normal quantitation limits were not met for benzene in these samples. Therefore, the results for benzene, reported as "non-detect" in these samples, may be biased low. No data qualifiers were used.

Conclusions:

These data were used to evaluate Site soil and groundwater conditions for select analytes following remediation. Since the benzene results for two samples may be biased low, it is possible that benzene may have been present that was not detectable in these samples.

The remaining data appear to be adequate for their intended purpose.

AMERICAN ANALYTICAL LABORATORIES

November 26, 1997

Ms. Trixi Packmohr
AEAC
56 Toledo Street
Farmingdale, New York, 11736

Re: Win-Holt Garden City NY

Dear Ms. Packmohr:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on November 21, 1997. American Analytical Laboratories, Inc. analyzed the samples on November 26, 1997 for the following:

CLIENT ID	ANALYSIS
SB-1 (34')	BTEX, TPH 418.1
GP-4	BTEX, TPH 418.1
GP-5	BTEX
GP-6	BTEX
GP-7	BTEX

If you have any questions or require further information, please call at your convenience. American Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

American Analytical Laboratories, Inc.

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Win-Holt Garden City NY SB-1(34')
Date received: 11/21/97	Laboratory ID: 9718958
Date extracted: 11/25/97	Matrix: Liquid
Date analyzed: 11/25/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<50
TOLUENE	108-88-3	2,404
ETHYL BENZENE	100-41-4	1,868
XYLENES (Total)	1330-20-7	1,913

*MDL's are raised due to high levels of target compounds.

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Win-Holt Garden City NY GP-4
Date received: 11/21/97	Laboratory ID: 9718959
Date extracted: 11/25/97	Matrix: Liquid
Date analyzed: 11/25/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<50
TOLUENE	108-88-3	8,835
ETHYL BENZENE	100-41-4	410
XYLENES (Total)	1330-20-7	2,046

*MDL's are raised due to high levels of target compounds.

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Win-Holt Garden City NY GP-5
Date received: 11/21/97	Laboratory ID: 9718960
Date extracted: 11/25/97	Matrix: Liquid
Date analyzed: 11/25/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<1
TOLUENE	108-88-3	86
ETHYL BENZENE	100-41-4	23
XYLENES (Total)	1330-20-7	107

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Win-Holt Garden City NY GP-6
Date received: 11/21/97	Laboratory ID: 9718961
Date extracted: 11/25/97	Matrix: Liquid
Date analyzed: 11/25/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<1
TOLUENE	108-88-3	2
ETHYL BENZENE	100-41-4	<1
XYLENES (Total)	1330-20-7	<3

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: AEAC	Client ID: Win-Holt Garden City NY GP-7
Date received: 11/21/97	Laboratory ID: 9718962
Date extracted: 11/25/97	Matrix: Liquid
Date analyzed: 11/25/97	Contractor: 11418

BTEX ANALYSIS BY EPA METHOD 602

PARAMETER	CAS No.	RESULTS ug/L
BENZENE	71-43-2	<1
TOLUENE	108-88-3	<1
ETHYL BENZENE	100-41-4	<1
XYLENES (Total)	1330-20-7	<3

Michael Venaldi

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NY 11735 • (516) 454-6100 • FAX (516) 454-8027

NYSDOH ELAP 11418
AIHA PAT, LPAT 15668
CTDOH PH-0205

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: AEAC

CONTACT: TRICIA / JAMES

SAMPLER (SIGNATURE): James Beck DATE: 11/21/97 TIME:

SAMPLER NAME (PRINT): James Beck

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION: WIN-HOLT GARDEN CITY, N.Y.

LABORATORY ID #	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: BTEX	TPH			P.O.#
9718958	L	G	4°C	SB-1 (34')	X	X		4 jars 4 VOCs	
9718959	L	G	4°C	GP-4	X	X		1L 2 vials	
9718960	L	G	4°C	GP-5	X			1L 2 vials	
9718961	L	G	4°C	GP-6	X			1L 2 vials	
9718962	L	G	4°C	GP-7	X			2 VOCs	

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL

TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON

TURNAROUND REQUIRED: NORMAL ☑ STAT ☐ BY 11/26

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
James Beck	11/21	James Beck		11/21 355	Mel Rodriguez
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

DATA USABILITY SUMMARY REPORT
FOR FEBRUARY 1999 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No raw data were provided.

The samples were analyzed by York Analytical Laboratories, Inc., which was NYSDOH-certified (license #10854) for the analyses performed.

The samples were analyzed for BTEX by SW846 Method 8260, which is a legitimate analytical methods for the analysis performed.

The sample holding times were met.

Batch QA/QC data were provided and indicated that the matrix spike/matrix spike duplicate recoveries and relative percent differences were within acceptable limits for both analyte groups. The correct data qualifiers were used.

Conclusions:

These data were used to evaluate Site groundwater conditions for select analytes following remediation. The data appear to be adequate for their intended purpose.

YORK
ANALYTICAL LABORATORIES, INC.

RECEIVED FEB 10 1999

Technical Report

prepared for

Fanning, Phillips and Molnar
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Mr. Bill Keenan

Report Date: 02/05/99

Re: Client Project ID: 562-98-01
York Project No.: 99020101

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 02/05/99
Client Project ID: 562-98-01

York Project No.: 99020101

Fanning, Phillips and Molnar
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Mr. Bill Keenan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 02/04/99. The project was identifed as your project "562-98-01 ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			W1		W2	
York ID			99020101-01		99020101-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX water	SW846-8240	ug/L	---	---	---	---
Benzene			Not detected	1	Not detected	100
Toluene			Not detected	1	51000	100
Ethylbenzene			Not detected	1	9000	100
o-Xylene			Not detected	1	12000	100
p- & m-Xylene			Not detected	1	35000	100

Client Sample ID			W3		W4	
York ID			99020101-03		99020101-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX water	SW846-8240	ug/L	---	---	---	---
Benzene			Not detected	1	Not detected	1
Toluene			3	1	17	1

YORK

Client Sample ID			W3		W4	
York ID			99020101-03		99020101-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Ethylbenzene			2	1	9	1
o-Xylene			4	1	17	1
p- & m-Xylene			8	1	39	1

Client Sample ID			W5	
York ID			99020101-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-BTEX water	SW846-8240	ug/L	---	---
Benzene			Not detected	1
Toluene			164	1
Ethylbenzene			241	1
o-Xylene			449	1
p- & m-Xylene			328	1

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: Robert Q. Bradley
Managing Director

Date: 02/05/99

YORK

YORK

ANALYTICAL LABORATORIES, INC.

QA/QC Summary Report

Associated Samples: AA55607 08-Feb-99

Client: Fanning, Phillips and Molnar

Analysis Name: *VOA QC* **Batch Name:** $VOA1-342 **QA Sample #:** AA55607

Unit of Measure: ppb

rameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Precision, RPD
Trichloroethylene	96	Not detected	Not detected	50	49	98.0	45	90.0	8.5
oluene	102	Not detected	Not detected	50	52	104.0	47	94.0	10.1
Chlorobenzene	105	Not detected	Not detected	50	47	94.0	45	90.0	4.3
enzene	92	Not detected	Not detected	50	46	92.0	46	92.0	0.0
1,1-Dichloroethylene	86	Not detected	Not detected	50	50	100.0	41	82.0	19.8

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
FPM	Bill Keenan	Bill Keenan	562-98-01	Tracy Murray / Tracy Murray

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	W1	2/3/99 1514	X				BTEX	2x40 ml voas
2	W2	2/3/99 1600	X				BTEX	2x40ml voas
3	W3	2/3/99 1230	X				BTEX	2x40ml voas
4	W4	2/3/99 1210	X				BTEX	2x40ml voas
5	W5	2/3/99 0945	X				BTEX	2x 40 ml voas

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Tracy Murray (Sample Relinquished by)	2/3/99 1850 (Date/Time)	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Linda A. LaBlanc (Sample Received in LAB by)	2/4/99 0930 (Date/Time)

Comments/Special Instructions

Turn-Around Time

X Standard ___ RUSH(define)_____

DATA USABILITY SUMMARY REPORT
FOR FEBRUARY 2001 SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No raw data were provided.

The samples were analyzed by York Analytical Laboratories, Inc., which was NYSDOH-certified (license #10854) for the analyses performed.

The samples were analyzed for Target Compound List (TCL) VOCs by SW846 Method 8260 and TCL SVOCs by SW846 Method 8270, which are legitimate analytical methods for the analyses performed.

The sample holding times were met and the samples were received in proper condition.

Batch QA/QC data were provided and indicated that the matrix spike/matrix spike duplicate recoveries and relative percent differences were within acceptable limits for both analyte groups. The correct data qualifiers were used.

Conclusions:

These data were used to evaluate Site groundwater conditions for select analytes following remediation. The data appear to be adequate for their intended purpose.

CC : JB

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Report Date: 2/16/2001
Re: Client Project ID: 562-00-03 / Win Holt
York Project No.: 01020209

Report Date: 2/16/2001
Client Project ID: 562-00-03 / Win Holt
York Project No.: 01020209

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 02/13/01. The project was identifed as your project "562-00-03/Win Holt ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			W-6		W-5	
York Sample ID			01020209-01		01020209-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			3400	100	140	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			76	1	5	1
1,1-Dichloroethylene			52	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			1	1	Not detected	1

Client Sample ID			W-6		W-5	
York Sample ID			01020209-01		01020209-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			2(cis-)	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			2	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			1	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			2	1	Not detected	1
Toluene			1	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			32	1	20	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1
BNA-8270 List water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,4,5-Trichlorophenol			Not detected	10	Not detected	10
2,4,6-Trichlorophenol			Not detected	10	Not detected	10

YORK

Client Sample ID			W-6		W-5	
York Sample ID			01020209-01		01020209-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
2,4-Dichlorophenol			Not detected	10	Not detected	10
2,4-Dimethylphenol			Not detected	10	Not detected	10
2,4-Dinitrophenol			Not detected	50	Not detected	50
2,4-Dinitrotoluene			Not detected	10	Not detected	10
2,6-Dinitrotoluene			Not detected	10	Not detected	10
2-Chloronaphthalene			Not detected	10	Not detected	10
2-Chlorophenol			Not detected	10	Not detected	10
2-Methylnaphthalene			Not detected	10	Not detected	10
2-Methylphenol			Not detected	10	Not detected	10
2-Nitroaniline			Not detected	50	Not detected	50
2-Nitrophenol			Not detected	10	Not detected	10
3,3'-Dichlorobenzidine			Not detected	10	Not detected	10
3-Nitroaniline			Not detected	50	Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50	Not detected	50
4-Bromophenyl phenyl ether			Not detected	10	Not detected	10
4-Chloro-3-methyl phenol			Not detected	10	Not detected	10
4-Chloroaniline			Not detected	10	Not detected	10
4-Chlorophenyl phenyl ether			Not detected	10	Not detected	10
4-Methylphenol			Not detected	10	Not detected	10
4-Nitroaniline			Not detected	50	Not detected	50
4-Nitrophenol			Not detected	50	Not detected	50
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo(a)anthracene			Not detected	10	Not detected	10
Benzo(a)pyrene			Not detected	10	Not detected	10
Benzo(b)fluoranthene			Not detected	10	Not detected	10
Benzo(g,h,i)perylene			Not detected	10	Not detected	10
Benzo(k)fluoranthene			Not detected	10	Not detected	10
Benzyl alcohol			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroethyl)ether			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bis(2-ethylhexyl)phthalate			Not detected	10	Not detected	10
Butyl benzyl phthalate			Not detected	10	Not detected	10
Chrysene			Not detected	10	Not detected	10
Dibenz(a,h)anthracene			Not detected	10	Not detected	10
Dibenzofuran			Not detected	10	Not detected	10
Diethylphthalate			Not detected	10	Not detected	10
Dimethylphthalate			Not detected	10	Not detected	10
Di-n-butylphthalate			Not detected	10	Not detected	10
Di-n-octylphthalate			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Hexachlorobenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Hexachlorocyclopentadiene			Not detected	10	Not detected	10
Hexachloroethane			Not detected	10	Not detected	10
Indeno(1,2,3-cd)pyrene			Not detected	10	Not detected	10
Isophorone			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10

YORK

Client Sample ID			W-6		W-5	
York Sample ID			01020209-01		01020209-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Nitrobenzene			Not detected	10	Not detected	10
N-Nitrosodi-n-propylamine			Not detected	10	Not detected	10
N-Nitrosodiphenylamine			Not detected	10	Not detected	10
Pentachlorophenol			Not detected	50	Not detected	50
Phenanthrene			Not detected	10	Not detected	10
Phenol			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			W-4		W-2	
York Sample ID			01020209-03		01020209-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			5	1	170	100
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	290	100
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	94	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	23(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	28	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	5	1
Chloroform			Not detected	1	Not detected	1

YORK

Client Sample ID			W-4		W-2	
York Sample ID			01020209-03		01020209-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	5600	100
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	13	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	1	1
n-Butylbenzene			Not detected	1	1	1
n-Propylbenzene			Not detected	1	15	1
o-Xylene			Not detected	1	8100	100
p- & m-Xylenes			Not detected	1	23000	100
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	1	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	12	1
Tetrachloroethylene			1	1	11	1
Toluene			Not detected	1	12000	100
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			52	1	100	100
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1
BNA-8270 List water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,4,5-Trichlorophenol			Not detected	10	Not detected	10
2,4,6-Trichlorophenol			Not detected	10	Not detected	10
2,4-Dichlorophenol			Not detected	10	Not detected	10
2,4-Dimethylphenol			Not detected	10	Not detected	10
2,4-Dinitrophenol			Not detected	50	Not detected	50
2,4-Dinitrotoluene			Not detected	10	Not detected	10
2,6-Dinitrotoluene			Not detected	10	Not detected	10
2-Chloronaphthalene			Not detected	10	Not detected	10
2-Chlorophenol			Not detected	10	Not detected	10
2-Methylnaphthalene			Not detected	10	Not detected	10
2-Methylphenol			Not detected	10	Not detected	10
2-Nitroaniline			Not detected	50	Not detected	50
2-Nitrophenol			Not detected	10	Not detected	10
3,3'-Dichlorobenzidine			Not detected	10	Not detected	10
3-Nitroaniline			Not detected	50	Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50	Not detected	50
4-Bromophenyl phenyl ether			Not detected	10	Not detected	10
4-Chloro-3-methyl phenol			Not detected	10	Not detected	10
4-Chloroaniline			Not detected	10	Not detected	10
4-Chlorophenyl phenyl ether			Not detected	10	Not detected	10
4-Methylphenol			Not detected	10	Not detected	10
4-Nitroaniline			Not detected	50	Not detected	50

YORK

Client Sample ID			W-4		W-2	
York Sample ID			01020209-03		01020209-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
4-Nitrophenol			Not detected	50	Not detected	50
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo(a)anthracene			Not detected	10	Not detected	10
Benzo(a)pyrene			Not detected	10	Not detected	10
Benzo(b)fluoranthene			Not detected	10	Not detected	10
Benzo(g,h,i)perylene			Not detected	10	Not detected	10
Benzo(k)fluoranthene			Not detected	10	Not detected	10
Benzyl alcohol			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroethyl)ether			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bis(2-ethylhexyl)phthalate			Not detected	10	Not detected	10
Butyl benzyl phthalate			Not detected	10	Not detected	10
Chrysene			Not detected	10	Not detected	10
Dibenz(a,h)anthracene			Not detected	10	Not detected	10
Dibenzofuran			Not detected	10	Not detected	10
Diethylphthalate			Not detected	10	Not detected	10
Dimethylphthalate			Not detected	10	Not detected	10
Di-n-butylphthalate			Not detected	10	Not detected	10
Di-n-octylphthalate			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Hexachlorobenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Hexachlorocyclopentadiene			Not detected	10	Not detected	10
Hexachloroethane			Not detected	10	Not detected	10
Indeno(1,2,3-cd)pyrene			Not detected	10	Not detected	10
Isophorone			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Nitrobenzene			Not detected	10	Not detected	10
N-Nitrosodi-n-propylamine			Not detected	10	Not detected	10
N-Nitrosodiphenylamine			Not detected	10	Not detected	10
Pentachlorophenol			Not detected	50	Not detected	50
Phenanthrene			Not detected	10	Not detected	10
Phenol			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 2/16/2001
Client Project ID: 562-00-03 / Win Holt
York Project No.: 01020209

Notes for York Project No. 01020209

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 2/16/2001
Robert Q. Bradley
Managing Director

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AB05886 — 16-Feb-01

Client: FPM Group

Analysis Name: *BNA QC-waters/tclps* **Batch Name:** $BNAW-5548 **QA Sample #:** AB05886

Unit of Measure: ug/L **York's Sample ID:** 01020209-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Precision, RPD
Pentachlorophenol		Not detected	Not detected	200	53	26.500	57		7.273
1,4-Dichlorobenzene		Not detected	Not detected	100	38	38.000	40		5.128
2,4-Dinitrotoluene		Not detected	Not detected	100	51	51.000	54		5.714
2-Chlorophenol		Not detected	Not detected	200	37	18.500	39		5.263
4-Chloro-3-methylph		Not detected	Not detected	200	48	24.000	45		6.452
4-Nitrophenol		Not detected	Not detected	200	50	25.000	54		7.692
1,2,4-Trichlorobenze		Not detected	Not detected	100	45	45.000	47		4.348
N-Nitroso-di-n-propyl		Not detected	Not detected	100	46	46.000	49		6.316
Phenol		Not detected	Not detected	200	26	13.000	30		14.286
Pyrene		Not detected	Not detected	200	55	27.500	57		3.571
Acenapthene		Not detected	Not detected	100	48	48.000	50		4.082

Associated Samples: AB05886 — 16-Feb-01

Client: FPM Group

Analysis Name: *VOA QC WATERS* **Batch Name:** $VOAW-5549 **QA Sample #:** AB05886

Unit of Measure: ug/L **York's Sample ID:** 01020209-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Precision, RPD
Trichloroethylene	106	Not detected	Not detected	50	56	112.0	53		5.5
1,1-Dichloroethylene	118	Not detected	Not detected	50	53	106.0	52		1.9
Benzene	96	Not detected	Not detected	50	50	100.0	46		8.3
Chlorobenzene	100	Not detected	Not detected	50	53	106.0	50		5.8
Toluene	104	Not detected	Not detected	50	58	116.0	54		7.1

YORK
ANALYTICAL LABORATORIES, INC.
ONE REBEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

01020209

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
FPM	John Bukoski	same	Winholt / 5-62-00-03	John S Bukoski / John S Bukoski

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	W-6	2/12/01 1130	X				VOCs & SVOCs by 8260/8270	(2) 1L Amb. (2) 40ml
2	W-5	1230						
3	W-4	1315						
~~4~~	~~W-3~~	~~1400~~						
5	W-2	1500						

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
John S Bukoski	2/12/01 0700	John S Bukoski	2/12/01 1630	J. [illegible]	2-13-01 / 10 00
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions: Cooler Temp : 7.2 °C

Turn-Around Time

X Standard ___ RUSH(define)_____

DATA USABILITY SUMMARY REPORT
FOR EARLY JUNE 2001SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No raw data were provided.

The samples were analyzed by York Analytical Laboratories, Inc., which was NYSDOH-certified (license #10854) for the analyses performed.

The samples were analyzed for BTEX by SW846 Method 8260, which is a legitimate analytical method for the analysis performed.

The sample holding times were met.

Batch QA/QC data were provided and indicated that the matrix spike/matrix spike duplicate recoveries and relative percent differences were within acceptable limits. Laboratory control sample (LCS) results indicate that no targeted analytes were detected in the method blank samples. The correct data qualifiers were used.

Conclusions:

These data were used to evaluate Site groundwater conditions for select analytes following remediation. The data appear to be adequate for their intended purpose.

C C JB

RECD JUN 25 2001

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Report Date: 6/20/2001
Re: Client Project ID: Win-Holt/562-00-04
York Project No.: 01060337

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

nelac nelap

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/20/2001
Client Project ID: Win-Holt/562-00-04
York Project No.: 01060337

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/14/01. The project was identifed as your project "Win-Holt/562-00-04 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			GP-1@10-12'		GP-1@20-22'	
York Sample ID			01060337-01		01060337-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,3-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0

Client Sample ID			GP-1@10-12'		GP-1@20-22'	
York Sample ID			01060337-01		01060337-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	50	Not detected	50
Bromodichloromethane			Not detected	50	Not detected	50
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	50	Not detected	50
Chloromethane			Not detected	50	Not detected	50
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			GP-5@37-39'		GP-5@52-54'	
York Sample ID			01060337-03		01060337-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			28	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			10	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			30(cis-)	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1

Client Sample ID			GP-5@37-39'		GP-5@52-54'	
York Sample ID			01060337-03		01060337-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			29	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-4@24-26'		GP-4@37-39'	
York Sample ID			01060337-05		01060337-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			77	1	57	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			5	1	4	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1

Client Sample ID			GP-4@24-26'		GP-4@37-39'	
York Sample ID			01060337-05		01060337-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-4@52-54'		GP-8@23-25'	
York Sample ID			01060337-07		01060337-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1

Client Sample ID			GP-4@52-54'		GP-8@23-25'	
York Sample ID			01060337-07		01060337-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-8@36-38'		GP-8@51-53'	
York Sample ID			01060337-09		01060337-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			4	1	6	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	4	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			2(cis-)	1	17(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			GP-8@36-38'		GP-8@51-53'	
York Sample ID			01060337-09		01060337-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			3	1	2	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			25	1	24	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-2@24-26'		GP-2@37-39'	
York Sample ID			01060337-11		01060337-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			6	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			7	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	1(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1

Client Sample ID			GP-2@24-26'		GP-2@37-39'	
York Sample ID			01060337-11		01060337-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			4	1	2	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-2@52-54'		GP-3@24-26'	
York Sample ID			01060337-13		01060337-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	43	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	52	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1

Client Sample ID			GP-2@52-54'		GP-3@24-26'	
York Sample ID			01060337-13		01060337-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	20(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	9	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-3@37-39'		GP-3@52-54'	
York Sample ID			01060337-15		01060337-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1

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Client Sample ID			GP-3@37-39'		GP-3@ 52-54'	
York Sample ID			01060337-15		01060337-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-1@37-39'		GP-1@ 52-54'	
York Sample ID			01060337-17		01060337-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			1	1	6	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	3	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1

Client Sample ID			GP-1@37-39'		GP-1@52-54'	
York Sample ID			01060337-17		01060337-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			7	1	160	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	1	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	2	1
o-Xylene			10	1	220	1
p- & m-Xylenes			31	1	550	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	4	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			8	1	120	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			W-2		W-6	
York Sample ID			01060337-19		01060337-20	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	25
1,1,1-Trichloroethane			110	100	5400	25
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	25
1,1,2-Trichloroethane			Not detected	1	Not detected	25
1,1-Dichloroethane			200	100	97	25
1,1-Dichloroethylene			Not detected	1	34	25
1,1-Dichloropropylene			Not detected	1	Not detected	25
1,2,3-Trichlorobenzene			Not detected	1	Not detected	25
1,2,3-Trichloropropane			Not detected	1	Not detected	25
1,2,3-Trimethylbenzene			Not detected	1	Not detected	25
1,2,4-Trichlorobenzene			Not detected	1	Not detected	25
1,2,4-Trimethylbenzene			140	100	Not detected	25
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	25
1,2-Dibromoethane			Not detected	1	Not detected	25

Client Sample ID			W-2		W-6	
York Sample ID			01060337-19		01060337-20	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichlorobenzene			Not detected	1	Not detected	25
1,2-Dichloroethane			Not detected	1	Not detected	25
1,2-Dichloroethylene (Total)			35(cis-)	1	Not detected	25
1,2-Dichloropropane			Not detected	1	Not detected	25
1,3,5-Trimethylbenzene			80	1	Not detected	25
1,3-Dichlorobenzene			Not detected	1	Not detected	25
1,3-Dichloropropane			Not detected	1	Not detected	25
1,4-Dichlorobenzene			Not detected	1	Not detected	25
1-Chlorohexane			Not detected	1	Not detected	25
2,2-Dichloropropane			Not detected	1	Not detected	25
2-Chlorotoluene			Not detected	1	Not detected	25
4-Chlorotoluene			Not detected	1	Not detected	25
Benzene			Not detected	1	Not detected	25
Bromobenzene			Not detected	1	Not detected	25
Bromochloromethane			Not detected	1	Not detected	25
Bromodichloromethane			Not detected	1	Not detected	25
Bromoform			Not detected	1	Not detected	25
Bromomethane			Not detected	1	Not detected	25
Carbon tetrachloride			Not detected	1	Not detected	25
Chlorobenzene			Not detected	1	Not detected	25
Chloroethane			Not detected	1	Not detected	25
Chloroform			Not detected	1	Not detected	25
Chloromethane			Not detected	1	Not detected	25
cis-1,3-Dichloropropylene			Not detected	1	Not detected	25
Dibromochloromethane			Not detected	1	Not detected	25
Dibromomethane			Not detected	1	Not detected	25
Dichlorodifluoromethane			Not detected	1	Not detected	25
Ethylbenzene			4700	1	Not detected	25
Hexachlorobutadiene			Not detected	1	Not detected	25
Isopropylbenzene			17	1	Not detected	25
Methylene chloride			Not detected	1	Not detected	25
Naphthalene			Not detected	1	Not detected	25
n-Butylbenzene			3	1	Not detected	25
n-Propylbenzene			19	1	Not detected	25
o-Xylene			11000	1	21	25
p- & m-Xylenes			27000	100	58	25
p-Isopropyltoluene			Not detected	1	Not detected	25
sec-Butylbenzene			Not detected	1	Not detected	25
Styrene			Not detected	1	Not detected	25
tert-Butylbenzene			23	1	Not detected	25
Tetrachloroethylene			8	1	Not detected	25
Toluene			12000	100	26	25
trans-1,3-Dichloropropylene			Not detected	1	Not detected	25
Trichloroethylene			Not detected	1	31	25
Trichlorofluoromethane			Not detected	1	Not detected	25
Vinyl chloride			Not detected	1	Not detected	25

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Report Date: 6/20/2001
Client Project ID: Win-Holt/562-00-04
York Project No.: 01060337

Notes for York Project No. 01060337

1 The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3 York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4 This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6 All analyses conducted met method or Laboratory SOP requirements.
7 It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 6/20/2001
Robert Q. Bradley
Managing Director

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AB15393

20-Jun-01

Client: FPM Group

alysis Name: *VOA QC Soils*
t of Measure: ug/kg

Batch Name: $VOAS-6381

QA Sample #: AB15393
York's Sample ID: 01060337-01

neter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate	Spike Recovery,%	Precision, RPD
loroethylene		Not detected	Not detected						
ene		Not detected	Not detected						
obenzene		Not detected	Not detected						
ene		Not detected	Not detected						
ichloroethylene		Not detected	Not detected						
loroethylene	99			50	49	98.0	55	110.0	11.5
ene	91			50	54	108.0	52	104.0	3.8
obenzene	103			50	48	96.0	52	104.0	8.0
ene	112			50	56	112.0	54	108.0	3.6
ichloroethylene	94			50	58	116.0	51	102.0	12.8

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AB15395

20-Jun-01

Client: FPM Group

alysis Name: *VOA QC WATERS*

Batch Name: SVOAW-6382

QA Sample #: AB15395

t Measure: ug/L

York's Sample ID: 01060337-03

neter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate	Spike Recovery,%	Precision, RPD
oroethylene	103	Not detected	Not detected	50	48	96.0	51	102.0	6.1
ne	91	Not detected	Not detected	50	54	108.0	50	100.0	7.7
obenzene	111	Not detected	Not detected	50	49	98.0	53	106.0	7.8
ene	110	Not detected	Not detected	50	55	110.0	53	106.0	3.7
chloroethylene	94	Not detected	Not detected	50	44	88.0	48	96.0	8.7

YORK

ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

1060337

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
FPM	John Bukoski	Same	W.m-Holt 562-00-04	John S Bukoski / John S Bukoski

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	GP-5@ 37'-39'	6/11/01 1030	X				VOCs by 8260	(2) 40 ml w/HCl
2	GP-5@ 52'-54'	1100	X					
3	GP-4@ 24'-26'	1230	X					
4	GP-4@ 37'-39'	1300	X					
5	GP-4@ 52'-54'	1430	X					(1) 40ml/HCl
6	GP-8@ 23'-25'	1600	X					(2) 40 ml w/HCl
7	GP-8@ 36'-38'	1640	X					
8	GP-8@ 51'-53'	6/11/01 1730	X					
9	GP-2@ 24'-26'	6/12/01 0800	X					
10	GP-2@ 37'-39'	6/12/01 0845	X					

Chain-of-Custody Record

	Date/Time		Date/Time		Date/Time
Bottles Relinquished from Lab by		Sample Relinquished by	6/13/01 0700	Sample Received by	
Bottles Received in Field by	6/11/01 0700	Sample Relinquished by		Sample Received in LAB by	6/14/01 11:40

Comments/Special Instructions: Cooler B 2°C

Turn-Around Time: X Standard ___ RUSH(define)_____

Field Chain-of-Custody Record

ON BEAR RIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
FPM	John Bukoski	same	Wm - Holt 562 - 00 - 04	John S. Bukoski

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
11	GP-2 @ 52'-54'	6/12/01 0930	X				VOCs by 8260	(1) 40 ml w/HCl
12	GP-3 @ 24'-26'	1230	X					(2) 40 ml w/HCl
13	GP-3 @ 37'-39'	1330	X					
14	GP-3 @ 52'-54'	1430	X					
15	GP-1 @ 10'-12'	1545		X				(2) 4oz glass
16	GP-1 @ 20'-22'	1615		X				(2) 4oz glass
17	GP-1 @ 37'-39'	1645	X					(2) 40 ml w/HCl
18	GP-1 @ 52'-54'	1715	X					
19	W-2	1700	X					
~~20~~	~~GP-10 @ 10'-12'~~	~~1800~~		~~X~~				~~(1) 4oz glass~~

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		John S. Bukoski	6/13/01 0700		
Bottles Received in Field by	**Date/Time**	**Sample Relinquished by**	**Date/Time**	**Sample Received in LAB by**	**Date/Time**
John S. Bukoski	6/11/01 0700				6/14/01 11:45

Comments/Special Instructions

Cooler 3.2°C

Turn-Around Time

X Standard ___ RUSH(define)_____

Field Chain-of-Custody Record

ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Company Name	Report To:	Invoice To:	Project ID/No.	
FPM	John Bukoski	same	Wm-Holt 562-00-04	John S Bukoski. Samples Collected By (Signature) / John Bukoski. Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
21	W-6	6/12/01 1705	X				VOCs by 8260	(2) 40ml w/HCl
~~22~~	~~GP-10 @ 20'-22'~~	1820		X				(2) 4oz-glass
~~23~~	~~GP-10 @ 24'-26'~~	1845	X					~~(2) 40ml w/HCl~~
~~24~~	~~GP-10 @ 31'-34'~~	1910	X					"
~~25~~	~~GP-10 @ 52'-54'~~	1930	X					"

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
John S Bukoski	6/11/01 0700	John S Bukoski	6/13/01 0700	Kim Dudek	6/14/01 11:45 AM
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions: Cooler 3.2°C

Turn-Around Time: X Standard ___ RUSH(define)_____

DATA USABILITY SUMMARY REPORT
FOR LATE JUNE 2001SAMPLING EVENT
WIN-HOLT EQUIPMENT CORP.
592 BROOK STREET, GARDEN CITY, NEW YORK

Narrative:

This DUSR was prepared using the entire original laboratory report. However, the data package is not complete as defined for the NYSDEC ASP Category B or USEPA CLP deliverables. No raw data were provided.

The samples were analyzed by York Analytical Laboratories, Inc., which was NYSDOH-certified (license #10854) for the analyses performed.

The samples were analyzed for TCL VOCs by SW846 Method 8260, which is a legitimate analytical method for the analysis performed. Select samples were also analyzed for TCL SVOCs by SW846 Method 8270, which is also a legitimate method for the analysis performed.

The sample holding times were met.

Batch QA/QC data were provided and indicated that the matrix spike/matrix spike duplicate recoveries and relative percent differences were within acceptable limits for both analyte groups. Laboratory control sample (LCS) results indicate that no targeted analytes were detected in the method blank samples. The correct data qualifiers were used.

Conclusions:

These data were used to evaluate Site soil and groundwater conditions for select analytes following remediation. The data appear to be adequate for their intended purpose.

cc: JB

REC'D JUL 2 - 2001

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Report Date: 6/27/2001
Re: Client Project ID: Win-Holt 562-00-04
York Project No.: 01060484

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

nelac nelap

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/27/2001
Client Project ID: Win-Holt 562-00-04
York Project No.: 01060484

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/20/01. The project was identifed as your project "Win-Holt 562-00-04 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			GP-10 @ 10'-12'		GP-10 @ 20'-22'	
York Sample ID			01060484-01		01060484-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,3-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0

Client Sample ID			GP-10 @ 10'-12'		GP-10 @ 20'-22'	
York Sample ID			01060484-01		01060484-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	50	Not detected	50
Bromodichloromethane			Not detected	50	Not detected	50
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	50	Not detected	50
Chloromethane			Not detected	50	Not detected	50
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			GP-7 @ 24'-26'		GP-7 @ 37'-39'	
York Sample ID			01060484-03		01060484-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			1	1	440	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	10	1
1,1-Dichloroethylene			Not detected	1	10	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	3(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1

Client Sample ID			GP-7 @ 24'-26'		GP-7 @ 37'-39'	
York Sample ID			01060484-03		01060484-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	1	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	30	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-7 @ 52'-54'		GP-6 @ 24'-26'	
York Sample ID			01060484-05		01060484-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1

Client Sample ID			GP-7 @ 52'-54'		GP-6 @ 24'-26'	
York Sample ID			01060484-05		01060484-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			4	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			2	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-6 @ 37'-39'		GP-6 @ 52'-54'	
York Sample ID			01060484-07		01060484-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			110	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			8	1	Not detected	1
1,1-Dichloroethylene			2	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1

Client Sample ID			GP-6 @ 37'-39'		GP-6 @ 52'-54'	
York Sample ID			01060484-07		01060484-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	1	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			6	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-9 @ 23'-25'		GP-9 @ 36'-38'	
York Sample ID			01060484-09		01060484-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1

Client Sample ID			GP-9 @ 23'-25'		GP-9 @ 36'-38'	
York Sample ID			01060484-09		01060484-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	1	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			GP-9 @ 51'-53'	
York Sample ID			01060484-11	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			2	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,1-Dichloropropylene			Not detected	1
1,2,3-Trichlorobenzene			Not detected	1
1,2,3-Trichloropropane			Not detected	1
1,2,3-Trimethylbenzene			Not detected	1
1,2,4-Trichlorobenzene			Not detected	1
1,2,4-Trimethylbenzene			Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1
1,2-Dibromoethane			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			2(cis-)	1
1,2-Dichloropropane			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,3-Dichloropropane			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2,2-Dichloropropane			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzene			Not detected	1
Bromobenzene			Not detected	1
Bromochloromethane			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1

Client Sample ID			GP-9 @ 51'-53'	
York Sample ID			01060484-11	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Bromomethane			Not detected	1
Carbon tetrachloride			Not detected	1
Chlorobenzene			Not detected	1
Chloroethane			Not detected	1
Chloroform			Not detected	1
Chloromethane			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Ethylbenzene			Not detected	1
Hexachlorobutadiene			Not detected	1
Isopropylbenzene			Not detected	1
Methylene chloride			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylenes			Not detected	1
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1
Styrene			Not detected	1
tert-Butylbenzene			Not detected	1
Tetrachloroethylene			4	1
Toluene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			52	1
Trichlorofluoromethane			Not detected	1
Vinyl chloride			Not detected	1

Client Sample ID			W-1		W-3	
York Sample ID			01060484-12		01060484-13	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	3	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	1	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1

Client Sample ID			W-1		W-3	
York Sample ID			01060484-12		01060484-13	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			3(cis-)	1	2(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			3	1	28	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1
BNA-8270 List water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,4,5-Trichlorophenol			Not detected	10	Not detected	10

Client Sample ID			W-1		W-3	
York Sample ID			01060484-12		01060484-13	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
2,4,6-Trichlorophenol			Not detected	10	Not detected	10
2,4-Dichlorophenol			Not detected	10	Not detected	10
2,4-Dimethylphenol			Not detected	10	Not detected	10
2,4-Dinitrophenol			Not detected	50	Not detected	50
2,4-Dinitrotoluene			Not detected	10	Not detected	10
2,6-Dinitrotoluene			Not detected	10	Not detected	10
2-Chloronaphthalene			Not detected	10	Not detected	10
2-Chlorophenol			Not detected	10	Not detected	10
2-Methylnaphthalene			Not detected	10	Not detected	10
2-Methylphenol			Not detected	10	Not detected	10
2-Nitroaniline			Not detected	50	Not detected	50
2-Nitrophenol			Not detected	10	Not detected	10
3,3'-Dichlorobenzidine			Not detected	10	Not detected	10
3-Nitroaniline			Not detected	50	Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50	Not detected	50
4-Bromophenyl phenyl ether			Not detected	10	Not detected	10
4-Chloro-3-methyl phenol			Not detected	10	Not detected	10
4-Chloroaniline			Not detected	10	Not detected	10
4-Chlorophenyl phenyl ether			Not detected	10	Not detected	10
4-Methylphenol			Not detected	10	Not detected	10
4-Nitroaniline			Not detected	50	Not detected	50
4-Nitrophenol			Not detected	50	Not detected	50
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo(a)anthracene			Not detected	10	Not detected	10
Benzo(a)pyrene			Not detected	10	Not detected	10
Benzo(b)fluoranthene			Not detected	10	Not detected	10
Benzo(g,h,i)perylene			Not detected	10	Not detected	10
Benzo(k)fluoranthene			Not detected	10	Not detected	10
Benzyl alcohol			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroethyl)ether			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bis(2-ethylhexyl)phthalate			Not detected	10	Not detected	10
Butyl benzyl phthalate			Not detected	10	Not detected	10
Chrysene			Not detected	10	Not detected	10
Dibenz(a,h)anthracene			Not detected	10	Not detected	10
Dibenzofuran			Not detected	10	Not detected	10
Diethylphthalate			Not detected	10	Not detected	10
Dimethylphthalate			Not detected	10	Not detected	10
Di-n-butylphthalate			Not detected	10	Not detected	10
Di-n-octylphthalate			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Hexachlorobenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Hexachlorocyclopentadiene			Not detected	10	Not detected	10
Hexachloroethane			Not detected	10	Not detected	10
Indeno(1,2,3-cd)pyrene			Not detected	10	Not detected	10
Isophorone			Not detected	10	Not detected	10

Client Sample ID			W-1		W-3	
York Sample ID			01060484-12		01060484-13	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Naphthalene			Not detected	10	Not detected	10
Nitrobenzene			Not detected	10	Not detected	10
N-Nitrosodi-n-propylamine			Not detected	10	Not detected	10
N-Nitrosodiphenylamine			Not detected	10	Not detected	10
Pentachlorophenol			Not detected	50	Not detected	50
Phenanthrene			Not detected	10	Not detected	10
Phenol			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 01060484

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 6/27/2001

Robert Q. Bradley
Managing Director

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AB15954

27-Jun-01

Client: FPM Group

Analysis Name: *VOA QC Soils*

Batch Name: SVOAS-6398

QA Sample #: AB15954

Test Measure: ug/kg

York's Sample ID: 01060484-01

				Matrix Spike			Spike		
	LCS(%)	Unspiked Result	Blank	Amount	Result	Recovery, %	Duplicate	Recovery,%	Precision, RPD
loroethylene	88	Not detected	Not detected	50	42	84.0	46	92.0	9.1
	94	Not detected	Not detected	50	47	94.0	47	94.0	0.0
obenzene	90	Not detected	Not detected	50	47	94.0	46	92.0	2.2
ene	120	Not detected	Not detected	50	47	94.0	52	104.0	10.0
oroethylene	110	Not detected	Not detected	50	48	96.0	46	92.0	4.3

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AB15965 27-Jun-01

Client: FPM Group

alysis Name: *BNA QC* Batch Name: $BNA-6397 QA Sample #: AB15965

t of Measure: ppb York's Sample ID: 01060484-12

ıeter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate	Spike Recovery,%	Precision, RPD
ıchlorophenol	52	Not detected	Not detected	200	100	50.000	106	53.000	5.825
ichlorobenzene	29	Not detected	Not detected	100	29	29.000	29	29.000	0.000
nitrotoluene	46	Not detected	Not detected	100	47	47.000	44	44.000	6.593
ɔrophenol	48	Not detected	Not detected	200	87	43.500	108	54.000	21.538
ɔro-3-methylphe	65	Not detected	Not detected	200	123	61.500	134	67.000	8.560
ɔphenol	58	Not detected	Not detected	200	105	52.500	128	64.000	19.742
Trichlorobenzen	30	Not detected	Not detected	100	30	30.000	30	30.000	0.000
ɔso-di-n-propyla	83	Not detected	Not detected	100	84	84.000	82	82.000	2.410
l	47	Not detected	Not detected	200	86	43.000	105	52.500	19.895
ɔ	53	Not detected	Not detected	100	57	57.000	49	49.000	15.094
ɔthene	48	Not detected	Not detected	100	48	48.000	47	47.000	2.105

Associated Samples: AB15965 27-Jun-01

Client: FPM Group

ysis Name: *VOA QC WATERS* Batch Name: $VOAW-6399 QA Sample #: AB15965

of Measure: ug/L York's Sample ID: 01060484-12

ter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate	Spike Recovery,%	Precision, RPD
oethylene	100	Not detected	Not detected	50	54	108.0	50	100.0	7.7
ıloroethylene	78	Not detected	Not detected	50	38	76.0	34	68.0	11.1
e	78	Not detected	Not detected	50	44	88.0	40	80.0	9.5
enzene	98	Not detected	Not detected	50	54	108.0	49	98.0	9.7
	98	Not detected	Not detected	50	54	108.0	49	98.0	9.7

ONE RESEARCH DRIVE
91[illegible] RD, [illegible]690[illegible]
(203) 325-1371 FAX (203) 357-0166

[illegible] Chain of Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
FPM	John Bukoski	same	Win-Holt 562-00-04	John S Bukoski Samples Collected By (Signature) John Bukoski Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	GP-7 @ 24'-26'	6/18/01 0845	X				VOCs by 8260	(2) 40 ml w/HCl
2	GP-7 @ 37'-39'	0930	X					
3	GP-7 @ 52'-54'	1000	X					
4	GP-6 @ 24'-26'	1030	X					
5	GP-6 @ 37'-39'	1115	X					
6	GP-6 @ 52'-54'	1215	X					
7	GP-9 @ 23'-25'	1255	X					
8	GP-9 @ 36'-38'	1330	X					
9	GP-9 @ 51'-53'	1415	X					
10	GP-10 @ 10'-12'	1500		X				(2) 4oz glass

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	John S Bukoski	6/18/01 1800
John S Bukoski	6/18/01 0630	Sample Relinquished by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
		Sample Received by	Date/Time
		Sample Received in LAB by	6-20-01/1100

Comments/Special Instructions: Cooler / Sample Temp: 3.2°C

Turn-Around Time: X Standard ___ RUSH(define)_____

ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
FPM	John Bukoski	same	Win-Holt 562-00-04	Samples Collected By (Signature): John S Bukoski Name (Printed): John S Bukoski

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
11	GP-10@20'-22'	6/18/01 1540		X			VOCs by 8260	(2) ~~40 ml w/HCl~~ 4 oz. glass
12	W-1	1430	X				VOCs and SVOCs 8260/8270	(2) 40 ml w/HCl (1) 1L Amber
13	W-3	1530	X				VOCs and SVOCs 8260/8270	"

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	John S Baker	6/18/01 1500
John S Bukoski	6/18/01 0630	Sample Relinquished by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
		Sample Received by	Date/Time
		Sample Received in LAB by	6-20-01 1100 Date/Time

Comments/Special Instructions: Cooler Sample Temp: 3.2°C

Turn-Around Time
X Standard ___ RUSH(define)_____

APPENDIX B

HEALTH AND SAFETY PLAN

FPM

APPENDIX B
HEALTH AND SAFETY PLAN
WIN-HOLT EQUIPMENT CORPORATION SITE
592 BROOK STREET, GARDEN CITY, NEW YORK

This worker Health and Safety Plan (HASP) is to be utilized at the Site during well installation and sampling activities for the protection of worker health and safety. A Community Air Monitoring Plan (CAMP) is also included to address potential air emission issues that may affect the Site community.

B.1 Worker Health and Safety Plan

B.1.1 Introduction

This HASP has been written for compliance with "OSHA Hazardous Waste Operations Standards (29 CFR 1910.120)", the guidance documents, "Standard Operating Safety Guidelines (Office of Solid Waste and Emergency Response, 1992)" and the "Occupational Safety and Health Guidance Manual for Hazardous Waste Activities" (U.S. Department of Health and Human Services, 1985).

Scope and Applicability of The HASP

This HASP is designed to be applicable to locations where well installation and groundwater sampling are performed at the Site by all parties that either perform or witness the activities on Site. This HASP may also be modified or amended to meet specific needs of the proposed work.

This HASP will detail the Site safety procedures, Site background, and safety monitoring. Contractors will be required to adopt this HASP in full or to follow an FPM-approved HASP.

The Health and Safety Officer (HSO) will be present at the Site to inspect the implementation of the HASP, however, it is the sole responsibility of the contractor(s) to comply with the HASP.

The HASP has been formulated as a guide to complement professional judgment and experience. The appropriateness of the information presented should always be evaluated with respect to unforeseen Site conditions which may arise.

Site Work Zone and Visitors

The Site work zone (a.k.a. exclusion zone) during the performance of the well installation or groundwater sampling will be a 30-foot radius about the work location. This work zone may be extended if, in the judgment of the HSO, Site conditions warrant a larger work zone.

No visitors will be permitted within the work zone without the consent of the HSO. All visitors will be required to be familiar with, and comply with, the HASP. The HSO will deny access to those whose presence within the work zone is unnecessary or those who are deemed by the HSO to be in non-compliance with the HASP.

All Site workers, including the contractors, will be required to have 40-hour hazardous material training (eight-hour refresher courses annually), respirator fit test certification, and current medical surveillance as stated in 29 CFR 1910.120.

The HSO will also give an on-Site health and safety discussion to all Site personnel, including the contractors, prior to initiating the Site work. Workers not in attendance during the health and safety talk will be required to have the discussion with the HSO prior to entering the work zone.

Emergency telephone numbers and directions to the nearest hospital are shown in Table B.1.1.1 and will be kept at the Site in the possession of the HSO and will be available to all Site workers and visitors.

B.1.2 Key Personnel/Alternates

The project manager for this project is Stephanie Davis. The project hydrogeologist will be Mr. John Bukoski. Mr. Bukoski will also act as the HSO. An assistant project hydrogeologist and assistant health and safety officer may be designated for the field activities.

B.1.3 Site Background

Based on the Site history and previous analyses of samples, the known chemicals present at the Site include VOCs. These chemicals are present in soil, and groundwater at the Site.

TABLE B.1.1.1
EMERGENCY TELEPHONE NUMBERS AND DIRECTIONS TO HEMPSTEAD GENERAL HOSPITAL

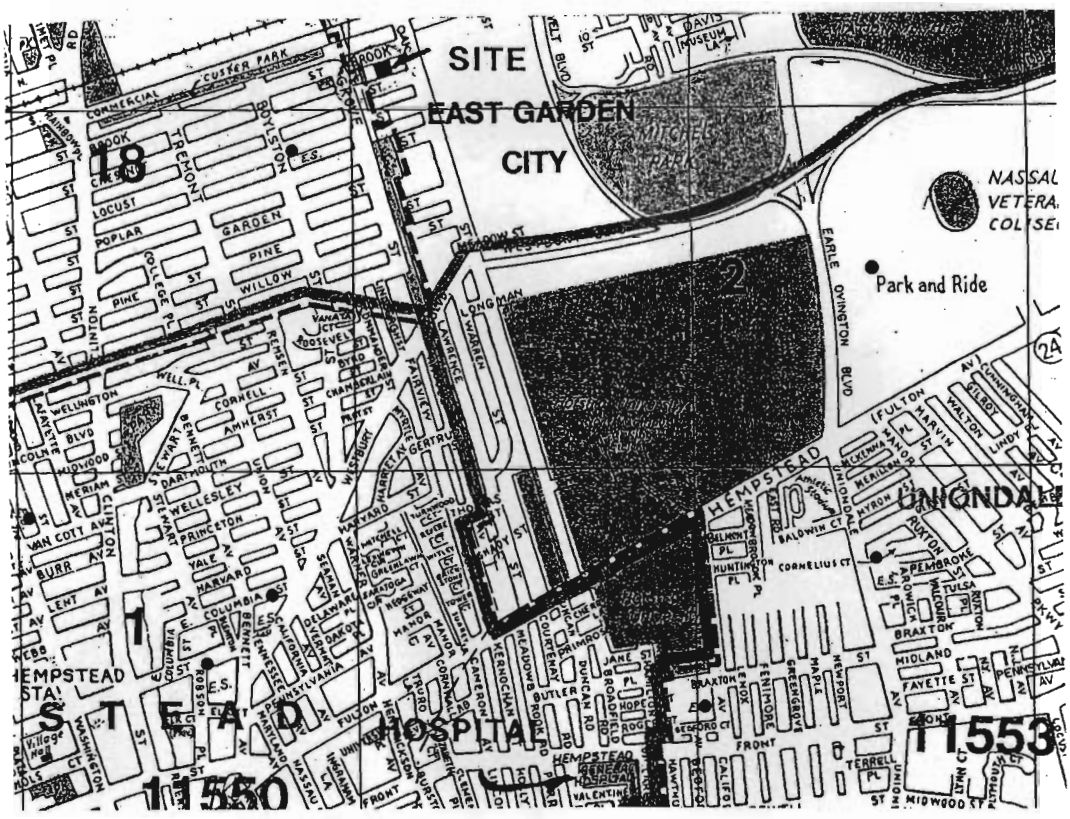
Police	911
Ambulance	911
Poison Control Center	516-542-2323
Hempstead General Hospital	516-481-8361

FPM Contact Personnel (631-737-6200)

Dr. Kevin J. Phillips, P.E.	Cell # 631-871-0755
Stephanie Davis, Project Manager	Cell # 516-381-3400
John Bukoski	Cell # 516-381-3535

Directions to Hempstead General Hospital

Exit the Site and turn right onto Oak Street. Go approximately two miles south on Oak Street and turn right onto Hempstead Turnpike (Route 24). Take the immediate next left onto Duncan Road. Go approximately one-half mile south on Duncan Road to the intersection with Front Street. Hempstead General Hospital is located on the south side of Front Street at the intersection with Duncan Road.



B.1.4 Task/Operation Health and Safety Analysis

This section will present health and safety analyses for the monitoring well installation and groundwater sampling tasks. In general, FPM will employ one to two persons at the Site. No well installation or other Site operations will be conducted by contractors without the presence of an FPM representative on Site. In the event that the HSO is not present on the Site, the Assistant HSO will implement the HASP. Levels of personal protection mentioned in this section are defined in Section B.1.7.

Well Drilling Safety Analysis

The installation of groundwater monitoring wells will be performed by a well drilling company. The well borings will be advanced by the hollow-stem auger method into unconsolidated glacial deposits consisting primarily of sand. The depth to groundwater is estimated to be 25 feet below grade at the Site. FPM personnel will be present to observe the drilling and the health and safety operations. In general, FPM will employ one to two persons at the Site. No drilling or other Site operations will be conducted by contractors without the presence of an FPM representative on Site. In the event that the HSO is not present on the Site, the Assistant HSO will implement the HASP.

Based on the Site history and previous analyses of samples, it has been determined that the known chemical compounds of potential concern consist of VOCs in the groundwater at the well location.

To minimize the potential for dust inhalation at the Site, the HSO will assess wind, vegetation, and soil moisture conditions and, if deemed necessary by the HSO, the affected area will be wetted with potable water. If this measure is determined to be ineffective, the HSO may decide to upgrade personal protection to Level C respiratory protection to include respirators with dust cartridges. If extremely windy and dusty conditions exist, the HSO may choose to postpone the drilling until such time as conditions improve.

Organic vapor concentrations will be monitored in the work zone by utilizing a Photovac MicroTIP Photoionization Detector (PID). The PID will be "zeroed" by exposing the PID to ambient air

prior to drilling and the upper range of calibration will be established by calibrating at 98 parts per million (ppm) of isobutylene. Background organic vapor concentrations will then be established in the work zone prior to drilling and recorded in the HSO field book.

Upon commencement of drilling, PID readings will be obtained in the workers' breathing zone and the open auger section after the auger has been driven into the ground and upon removal of the auger drive cap. Readings will be obtained following the initial five-foot auger advance into the ground and every five feet thereafter. At the discretion of the HSO, PID readings may be obtained more frequently. All readings and observations will be recorded in the HSO field book. PID air monitoring will be conducted by FPM personnel.

Steady-state PID readings greater than five ppm in the worker's breathing zone will require upgrading to Level C personal protective equipment. Steady-state readings, for this purpose, will be defined as readings exceeding five ppm above background for a minimum of ten seconds. If readings exceed five ppm within the auger head, readings will then be obtained at points approximately one foot above and then around the auger opening. These points will define the worker's breathing zone.

Upon encountering PID levels greater than five ppm above background in the worker's breathing zone, all personnel will be evacuated from the work zone in the upwind direction. Specific evacuation routes will be discussed prior to commencement of work at each location based on work location and wind direction. In addition, an evacuation meeting place will be determined. Wind-direction telltales will be placed in the work zone to monitor wind direction. Level C personal protection will be implemented including full-face air-purifying respirators with dust and organic vapor cartridges (personal protective equipment will be described in greater detail in Section B.1.7). All FPM personnel and contractors must be properly trained and fit tested prior to donning respirators. If, at any time, PID readings exceed steady-state levels greater than 50 ppm above background, or any conditions exist which the HSO determines will require Level B personal protective equipment, all work at the Site will cease immediately and all personnel will evacuate the work zone. Evacuation will occur in the upwind direction if discernable. Level B conditions are not anticipated to be encountered; however, if level B

conditions arise, no Site work will be performed by FPM or contractors and a complete evaluation of the operation will be performed and this HASP will be modified.

All drilling personnel will be required to wear chemical-resistant nitrile gloves when the potential for dermal contact with the drill cuttings or groundwater is possible. This will include handling of augers being retrieved from the borehole. Dermal contact with drill cuttings and groundwater and equipment that has been in contact with drill cuttings and groundwater will be avoided.

Water Level Measurement and Groundwater Sampling Safety Analysis

Water level measurements and groundwater sampling will be performed by FPM personnel. In general, FPM will employ one to two persons at the Site. No water level measurements or groundwater sampling is anticipated to be done by contractors.

Based on the Site history and previous analysis of samples, it has been determined that the chemical compounds of potential concern consist of VOCs in the groundwater.

If warranted, organic vapor concentrations will be monitored in the work zone during water level monitoring and groundwater sampling by utilizing a PID. The PID will be "zeroed" by exposing the PID to ambient air prior to sampling and the upper range will be calibrated using 98 ppm isobutylene. Background concentrations will then be established in the work zone prior to opening the wells and recorded in the HSO field book.

Upon opening the wells, PID reading will be obtained from the open well casings and the vicinity of the direct-push locations. At the discretion of the HSO, PID readings may be obtained more frequently. All readings and observations will be recorded in the HSO field book. PID air monitoring will be conducted by FPM personnel.

Steady-state PID readings greater than five ppm in the worker's breathing zone will require upgrading to Level C personal protective equipment. Steady-state readings, for this purpose, will be defined as readings exceeding five ppm above background for a minimum of ten seconds. If readings exceed five ppm within the open well casing, readings will then be obtained at points approximately one foot above and then around the casing opening. These points will define the worker's breathing zone.

Upon encountering PID levels greater than five ppm above background in the worker's breathing zone, all personnel will be excavated from the work zone in the upwind direction. Specific evacuation routes will be discussed prior to commencement of work at each location based on work location and wind direction. In addition, an evacuation meeting place will be determined. Wind-direction telltales will be placed in the work zone to monitor wind direction. Level C personal protection may be implemented including full-face air-purifying respirators with dust and organic vapor cartridges (personal protective equipment will be described in greater detail in Section B.1.7). All FPM personnel must be properly trained and fit tested prior to donning respirators. If, at any time, PID readings exceed steady-state levels greater than 50 ppm above background, or any conditions exist which the HSO determine will require Level B personal protective equipment, all work at the Site will cease immediately and all personnel will evacuate the work zone. Evacuation will occur in the upwind direction if discernable. Level B conditions are not anticipated to be encountered; however, if Level B conditions arise, no Site work will be performed by FPM or contractors and a complete evaluation of the operation will be performed and this HASP will be modified.

All personnel will be required to wear chemical-resistant gloves (such as butyl or nitrile) when the potential for dermal contact with the groundwater is possible. This will include cleaning and handling of retrieved direct-push sampling rods, water level indicators, bailers, and rope from the borehole. Dermal contact with groundwater and equipment that has been in contact with groundwater will be avoided. For handling sample containers, thin nitrile gloves may be used if dexterity is required. In addition, eye protection will be worn by samplers during periods when the potential for splashing of groundwater is present (such as during well bailing).

Other Safety Considerations

Noise

During well installation or direct-push operations or any other operation which may generate potentially harmful levels of noise, the HSO will monitor noise levels with a Realistic[tm] hand-held sound level meter. Noise levels will be monitored in decibels (dBs) in the A-weighted, slow-response mode.

Noise level readings which exceed the 29 CFR 1910.95 permissible noise exposure limits will require hearing protection (see Table B.1.4.1 for Permissible Noise Exposures).

Hearing protection will be available to all Site workers and will be required for exceedance of noise exposure limits. The hearing protection will consist of foam, expansion-fit earplugs (or other approved hearing protection) with a noise reduction rating of at least 29 dB. Hearing protection must alleviate worker exposure to noise to an eight-hour time-weighted average of 85 dB or below. In the event that the hearing protection is inadequate, work will cease until a higher level of hearing protection can be incorporated.

Slip/Trip/Fall Preventative Measures

To reduce the potential for slipping, tripping, or falling, the work zone will be kept clear of unnecessary equipment. In addition, all Site workers will be required to wear work boots with adequate tread to reduce the potential for slipping (work boots must be leather or chemical-resistant and contain steel toes and steel shanks).

Insects and Ticks

Insect and tick problems are expected to be minimal. Potential insect problems include, but are not limited to, bees, wasps, and hornets. Prior to commencement of work, each work area will be surveyed for nests and hives to reduce the possibility of disturbing these insects. In addition, each Site worker will be asked to disclose any allergies related to insect stings or bites. The worker will be requested to keep his or her anti-allergy medicine on Site.

Tick species native to Long Island consist of the pinhead-sized deer tick and the much-larger dog tick. Ticks are unlikely to exist at the Site due to a paucity of suitable habitat. All Site workers will be advised to avoid walking through tall grassy areas where possible and will be advised to check for ticks on clothing periodically.

TABLE B.1.4.1
PERMISSIBLE NOISE EXPOSURES*

Duration Per Day Hours	Sound Level dBA Slow Response
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
½	110

Notes:

When the daily noise exposure is composed of two or more periods of noise exposure of different levels, their combined effect should be considered, rather than the individual effect of each. If the sum of the following fractions: $C_1/T_1+C_2/T_2+\ldots C_n/T_n$ exceeds unity, then, the mixed exposure should be considered to exceed the limit value. C_n indicates the total time of exposure at a specified noise level, and T_n indicates the total time of exposure permitted at that level.

Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level.

*Standards derived from 29 CFR 1910.95

Potential Electrical Hazards

Potential electric hazards consist mainly of overhead and underground power lines. Prior to commencement of work at the Site, all well installation and sampling locations will be inspected with respect to overhead lines. Well installation will not be performed when the horizontal distance between the equipment and overhead wires is less than 30 feet.

Underground potential electrical hazards will be minimized by contacting the one-call service to provide markouts of the utilities beneath adjoining public streets. A geophysical survey may also be utilized to mark out subsurface utilities prior to well installation or direct-push sampling.

The Buddy System

All activities in contaminated or potentially contaminated areas will be conducted by pairing off the Site workers in groups of two (or three if necessary). Each person (buddy) will be able to:

- Provide his or her partner with assistance.
- Observe his or her partner for signs of chemical, cold, or heat exposure.
- Periodically check the integrity of his or her partner's protective clothing.
- Notify the HSO or others if emergency help is needed.

The buddy system will be instituted at the beginning of each work day. If new workers arrive on Site, a buddy will be chosen prior to the new worker entering the work zone.

Site Communications

Two sets of communication systems will be established at the Site: internal communication among personnel on-Site, and external communication between on-Site and off-Site personnel.

Internal communication will be used to:

- Alert team members to emergencies.
- Pass along safety information such as heat stress check, protective clothing check, etc.
- Communicate changes in the work to be accomplished.
- Maintain Site control.

Due to ambient noise, verbal communications may be difficult at times. The HSO will carry a whistle (and compressed air horn if respirators are donned) to signal Site workers. A single whistle blast will be the signal to immediately evacuate the work zone through the access control point. This signal will be discussed with all Site workers prior to commencement of work.

An external communication system between on-Site and off-Site personnel will be established to:

- Coordinate emergency response
- Report to the Project Manager
- Maintain contact with essential off-Site personnel

A field telephone will be available at all times in the HSO's vehicle. In addition, the nearest stationary phone will be identified prior to the commencement of Site operations and this location will be relayed to all Site workers.

General Safe Work Practices

Standing orders which will be applicable during Site operations are as follows:

- No smoking, eating, drinking, or application of cosmetics in the work zone.
- No matches or lighters in the work zone.
- All Site workers will enter/exit work zone through the Site access point.
- Any signs of contamination, radioactivity, explosivity, or unusual condition such as dead animals will require evacuating the Site immediately and reporting the information to the HSO.
- Loose fitting clothing or loose long hair will be prohibited in the work zone during drilling operations.
- A signal person will direct the backing of work vehicles.
- Equipment operators will be instructed to check equipment for abnormalities such as oozing liquids, frayed cables, unusual odors, etc.

B.1.5 Personnel Training Requirements

All FPM personnel and contractor personnel will receive adequate training prior to entering the Site. FPM's and contractor's personnel will, at a minimum, have completed OSHA-approved, 40-hour hazardous materials Site safety training and OSHA-approved, eight-hour safety refresher course within one year prior to commencing field work. In addition, each worker must have a minimum of three days field experience under the direct supervision of a trained, experienced supervisor.

Prior to Site field work, the HSO will conduct an in-house review of the project with respect to health and safety with all FPM personnel who will be involved with field work at the Site. The review will include discussions of signs and symptoms of chemical exposure and heat stress that indicate potential medical emergencies. In addition, review of personal protective equipment will be conducted to include the proper use of air-purifying respirators.

B.1.6 Medical Surveillance Program

All workers at the Site must participate in a medical surveillance program in accordance with 29 CFR 1910.120. A medical examination and consultation must have been performed within the last twelve months to be eligible for field work.

The content of the examination and consultation will include a medical and work history with special emphasis on symptoms related to the handling of hazardous substances, health hazards, and fitness for duty including the ability to wear required personal protective equipment under conditions (i.e., temperature extremes) that may be expected at the work Site.

All medical examinations and procedures shall be performed by, or under the supervision of, a licensed physician. The Physician shall furnish a written opinion containing:

- The results of the medical examination and tests;
- The physician's opinion as to whether the employee has any detected medical conditions which would place the worker at increased risk of material impairment of the employee's health from work in hazardous waste operations;
- The physician's recommended limitations upon the worker assigned to the work; and

- A statement that the worker has been informed by the physician of the results of the medical examination and any further examination or treatment.
- An accurate record of the medical surveillance will be retained. The record will consist of at least the following information:
- The name and social security number of the employee;
- The physician's written opinions, recommended limitations, and results of examinations and tests; and
- Any worker medical complaints related to exposure to hazardous substances.

B.1.7 Personal Protective Equipment

General Considerations

The two basic objectives of the personal protective equipment (PPE) is to protect the wearer from safety and health hazards, and to prevent the wearer from incorrect use and/or malfunction of the PPE.

Potential Site hazards have been discussed previously in Section B.1.4. The duration of Site activities is estimated to be up to one year. All work is expected to be performed during daylight hours and workdays, in general, are expected to be eight to ten hours in duration. Any work performed beyond daylight hours will require the permission of the HSO. This decision will be based on the adequacy of artificial illumination and the type and necessity of the task being performed.

Personal protection levels for the Site activities, based on past investigations, are anticipated to be Level D with the possibility of upgrading to Level C. The equipment included for each level of protection is provided as follows:

Level C Protection

Personnel protective equipment

- Air-purifying respirator, full-face

- Chemical-resistant clothing includes: Tyvek[tm] (spunbonded olefin fibers) for particulate and limited splash protection or Saranex[tm] (plastic film-laminated Tyvek) for permeation resistance to solvents.
- Coveralls*, or
- Long cotton underwear*
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots (outer), leather or chemical-resistant, steel toe and shank.
- Boot covers (outer), chemical-resistant (disposable)*
- Hard hat (face shield)*
- Escape mask*
- 2-way radio communications (inherently safe)*

(*) optional

Criteria for Selection of Level C Protection

Meeting all of these criteria permits use of Level C Protection:

- Oxygen concentrations are not less than 19.5% by volume.
- Measured air concentrations of identified substances will be reduced by the respirator below the substance's threshold limit value (TLV).
- Atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect any body area left unprotected by chemical-resistant clothing.
- Job functions do not require self-contained breathing apparatus.
- Direct readings are below 50 ppm on the PID.

Level D Protection

Personnel protective equipment:

- Coveralls

- Gloves*
- Boots/shoes, leather or chemical-resistant, steel toe and shank
- Safety glasses or chemical splash goggles*
- Hard hat (face shield*)
- Escape mask*

(*) optional

Criteria for Selection of Level D Protection

Meeting any of these criteria allows use of Level D Protection:

- No contaminant levels above 5 ppm organic vapors or dusty conditions are present.
- Work functions preclude splashes, immersion, or the reasonable potential for unexpected inhalation of any chemicals above the TLV.

Additional Considerations for Selecting Levels of Protection

Another factor which will be considered in selecting the appropriate level of protection is heat and physical stress. The use of protective clothing and respirators increases physical stress, in particular, heat stress on the wearer. Chemical protective clothing greatly reduces natural ventilation and diminishes the body's ability to regulate its temperature. Even in moderate ambient temperatures, the diminished capacity of the body to dissipate heat can result in one or more heat-related problems.

All chemical protective garments can be a contributing factor to heat stress. Greater susceptibility to heat stress occurs when protective clothing requires the use of a tightly fitted hood against the respirator face piece, or when gloves or boots are taped to the suit. As more body area is covered, less cooling takes place, increasing the probability of heat stress.

Wearing protective equipment also increases the risk of accidents. It is heavy, cumbersome, decreases dexterity, agility, interferes with vision, and is fatiguing to wear. These factors all increase physical stress and the potential for accidents. In particular, the necessity of selecting a level of protection will be balanced against the increased probability of heat stress and accidents.

Donning and Doffing Ensembles

Donning an Ensemble

A routine will be established and practiced periodically for donning a Level C ensemble. Assistance may be provided for donning and doffing since these operations are difficult to perform alone.

Table B.1.7.1 lists sample procedures for donning a Level C ensemble. These procedures should be modified depending on the particular type of suit and/or when extra gloves and/or boots are used.

Doffing an Ensemble

Exact procedures for removing Level C ensembles must be established and followed to prevent contaminant migration from the work area and transfer of contaminants to the wearer's body, the doffing assistant, and others.

Doffing procedures are provided in Table B.1.7.2. These procedures should be performed only after decontamination of the suited worker. They require a suitably attired assistant. Throughout the procedures, both worker and assistant should avoid any direct contact with the outside surface of the suit.

Respirator Fit Testing

The fit or integrity of the facepiece-to-face seal of a respirator affects its performance. Most facepieces fit only a certain percentage of the population; thus each facepiece must be tested on the potential wearer in order to ensure a tight seal. Facial features such as scars, hollow temples, very prominent cheekbones, deep skin creases, dentures or missing teeth, and the chewing of gum and tobacco may interfere with the respirator-to-face seal. A respirator shall not be worn when such conditions prevent a good seal. The worker's diligence in observing these factors shall be evaluated by periodic checks. Fit testing will comply with 29 CFR 1910.1025 regulations.

TABLE B.1.7.1
SAMPLE LEVEL C DONNING PROCEDURES

1. Inspect the clothing and respiratory equipment before donning (see Inspection in subsection 7.4).

2. Adjust hard hat or headpiece if worn, to fit user's head.

3. Standing or sitting, step into the legs of the suit; ensure proper placement of the feet within the suit; then gather the suit around the waist.

4. Put on chemical-resistant safety boots over the feet of the suit. Tape the leg cuff over the tops of the boots.

5. Don the respirator and adjust it to be secure, but comfortable.

6. Perform negative and positive respirator facepiece seal test procedures.

   – To conduct a negative-pressure test, close the inlet part with the palm of the hand or squeeze the breathing tube so it does not pass air, and gently inhale for about 10 seconds. Any inward rushing of air indicates a poor fit. Note that a leaking facepiece may be drawn tightly to the face to form a good seal, giving a false indication of adequate fit.

   – To conduct a positive-pressure test, gently exhale while covering the exhalation valve to ensure that a positive pressure can be built up. Failure to build a positive pressure indicates a poor fit.

7. Depending on type of suit:

   – Put on inner gloves (surgical gloves).

   – Additional overgloves, worn over attached suit gloves, may be donned later.

8. Put on hard hat

9. Have assistant observe the wearer for a period of time to ensure that the wearer is comfortable, psychologically stable, and that the equipment is functioning properly.

TABLE B.1.7.2
DOFFING PROCEDURES

1. Remove any extraneous or disposable clothing, boot covers, outer gloves, and tape.

2. Remove respirator by loosening straps and pulling straps over the top of the head and move mask away from head. Do not pull mask over the top of the head.

3. Remove arms, one at a time, from suit, avoiding any contact between the outside surface of the suit and wearer's body and lay the suit out flat behind the wearer. Leave internal gloves on, if any.

4. Sitting, if possible, remove both legs from the suit.

5. After suit is removed, remove internal gloves by rolling them off the hand, inside out.

Inspection

The PPE inspection program will entail five different inspections:

- Inspection and operational testing of equipment received from the factory or distributor;
- Inspection of equipment as it is issued to workers;
- Inspection after use;
- Periodic inspection of stored equipment; and
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise.

The inspection checklist is provided in Table B.1.7.3. Records will be kept of all inspection procedures. Individual identification numbers will be assigned to all reusable pieces of equipment and records should be maintained by that number. At a minimum, each inspection should record the ID number, date, inspector, and any unusual conditions or findings. Periodic review of these records may indicate an item or type of item with excessive maintenance costs or a particularly high level of down-time.

Storage

Clothing and respirators will be stored properly to prevent damage or malfunction due to exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact. Storage procedures are as follows:

Clothing:

- Potentially contaminated clothing will be stored in an area separate from street clothing;
- Potentially contaminated clothing will be stored in a well-ventilated area, with good air flow around each item, if possible;
- Different types and material of clothing and gloves will be stored separately to prevent issuing the wrong material by mistake; and
- Protective clothing will be folded or hung in accordance with manufacturer's recommendations.

TABLE B.1.7.3
PPE INSPECTION CHECKLIST

CLOTHING

Before use:

- Determine that the clothing material is correct for the specified task at hand.
- Visually inspect for:
  - imperfect seams
  - non-uniform coatings
  - tears
  - malfunctioning closures
- Hold up to light and check for pinholes.
- Flex product:
  - Observe for cracks
  - Observe for other signs of shelf deterioration
- If the product has been used previously, inspect inside and out for signs of chemical attack:
  - discoloration
  - swelling
  - stiffness

During the work task, periodically inspect for:

- Evidence of chemical attack such as discoloration, swelling, stiffening, and softening. Keep in mind, however, that chemical permeation can occur without any visible effects.
- Closure failure
- Tears
- Punctures
- Seam discontinuities

TABLE B.1.7.3 (CONTINUED)
PPE INSPECTION CHECKLIST

GLOVES

Before use:

- Pressurize glove to check for pinholes. Either blow into glove, then roll gauntlet toward fingers or inflate glove and hold under water. In either case, no air should escape.

AIR-PURIFYING RESPIRATORS

- Inspect air-purifying respirators:
  - before each use to be sure they have been adequately cleaned
- Check material conditions for:
  - signs of pliability
  - signs of deterioration
  - signs of distortion
- Examine cartridges to ensure that:
  - they are the proper type for the intended use
  - the expiration date has not been passed
  - they have not been opened or used previously
- Check faceshields and lenses for:
  - cracks
  - crazing
  - fogginess
- Air purifying respirators will be stored individually in resealable plastic bags.

Respirators:

- Air-purifying respirators should be dismantled, washed, and placed in sealed plastic bags.

Maintenance

Specialized maintenance will be performed only by the factory or an authorized repair person. Routine maintenance, such as cleaning, will be performed by the personnel to which the equipment is assigned. Respirators will be cleaned at the end of each day with alcohol pads or, preferably, by washing with warm soapy water.

Decontamination Methods

All personnel, clothing, equipment, and samples leaving the contaminated (work zone) area of the Site must be decontaminated to remove any harmful chemicals or infectious organisms that may have adhered to them. Decontamination methods either (1) physically remove contaminants (2) inactivate contaminants by chemical detoxification or disinfection/sterilization, or (3) remove contaminants by a combination of both physical and chemical means. In many cases, gross contamination can be removed by physical means involving dislodging/displacement, rinsing, wiping off, and evaporation. Contaminants that can be removed by physical means include dust, vapors, and volatile liquids. All reusable equipment will be decontaminated by rinsing in a bath of detergent and water (respirators, gloves to be reused). Monitoring equipment will be decontaminated by wiping with paper towels and water. All used PPE to be discarded will be placed in a 55-gallon drum and stored in a secure place at the Site while awaiting final disposition.

The effectiveness of the decontamination will be evaluated near the beginning of Site activities and will be modified if determined to be ineffective. Visual observation will be used for this purpose. The HSO will inspect decontaminated materials for discoloration, stains, corrosive effects, visible dirt, or other signs of possible residual contamination.

B.2 Community Air Monitoring Plan

This section includes procedures to address potential community air monitoring associated with investigation activities at the Site. A community air monitoring plan (CAMP) will be implemented at the

Site by FPM during the intrusive investigation activities, including well installation and direct-push sampling. Due to the nature of the groundwater at the proposed well and direct-push locations, there is a limited potential for organic vapor emissions as these activities occur. In addition, there is the potential for dust to be associated with the well installation activities. To address these concerns, organic vapor monitoring and dust monitoring will be performed.

B.2.1 Organic Vapor Monitoring

Under the community air monitoring plan, organic vapor concentrations will be monitored at the boundaries of the work zone. It will be the responsibility of the HSO to implement the plan and to ensure that proper action is taken in the event that any of the established action levels are exceeded.

To monitor organic vapors, a PID will be used and maintained in good operating condition. Calibration of the PID will be performed according to manufacturer's instructions. Background levels of organic vapors will be measured at the work zone boundary prior to beginning work and upwind of the work area periodically using a PID. Organic vapors will be monitored at the downwind perimeter of the work area during intrusive activities at one-hour intervals. Monitoring may be performed more frequently of the discretion of the HSO.

PID readings will be recorded in the field logbook for both background and work area perimeter. Logbook recordings will include the time, location, and PID readings observed. Downwind perimeter levels will be recorded in the log whenever the level reaches 5 ppm above the background along with the action(s) taken to mitigate the level. If the level of organic vapors exceeds 5 ppm above the background at the downwind perimeter of the work area, work activities will be halted and monitoring continued. The vapor emission response plan will then be implemented.

The vapor emission response plan includes the following trigger levels and responses:

- Greater than 5 ppm at perimeter:

  In the event the level of organic vapors exceeds 5 ppm above the background at the downwind perimeter of the work area, activities will be halted and monitoring continued. If the organic

vapor level then decreases to below 5 ppm above background, work activities can resume but organic vapor readings will be obtained more frequently as directed by the HSO.

- 5 ppm to 25 ppm at perimeter and less than 5 ppm at the work zone boundary:

  If the level of organic vapors is greater than 5 ppm but less than 25 ppm over background at the downwind perimeter of the work area, activities will be halted, the source of the vapors will be identified and corrective actions will be taken. Monitoring will be continued and activities will resume if the organic vapor concentration at half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm over background. More frequent intervals of monitoring will be performed as directed by the HSO.

- Above 25 ppm at perimeter:

  If the level of organic vapors is above 25 ppm at the perimeter of the work area, activities will be shut down. Should such a shutdown be necessary, downwind air monitoring will continue as directed by the HSO to confirm that organic vapor concentrations decrease. Actions will be taken to abate the source of vapor emissions and activities will not resume until the source is controlled.

B.2.2 Dust Monitoring

If dust is generated during well installation activities, dust suppression will be performed, as discussed in Section B.1.4 of this HASP. If dust suppression is ineffective or complaints are received, then dust monitoring will be performed. If necessary, dust monitoring will be performed with a Miniram personal monitor calibrated according to the manufacturer's instructions. The Miniram will be held at the downwind perimeter of the work zone at least once per hour, or more frequently if visible dust is noted, and the HSO will record the readings in the field logbook. If measurable dust levels are noted, then readings will also be obtained upwind of the work zone. If the downwind particulate level exceeds the upwind level by more than 100 micrograms per cubic meter (ug/m^3), then additional dust suppression techniques will be employed or work will be halted or controlled such that dust levels are reduced at the downwind perimeter to within 150 ug/m^3 of the upwind level

B.2.3 Noise Monitoring

Due to the use of a drill rig or direct-push rig, there is the potential for noise to impact the surrounding community. Work will be performed only during normal working hours when ambient noise levels are elevated due to ongoing activities in the community. Therefore, the potential for noise impacts on the surrounding community is low.

However, if pedestrians are present in the Site vicinity, it is possible for noise impacts to occur. To address these concerns and other safety concerns, pedestrians will be barred from entering the work zone. In addition, the HSO will periodically monitor noise levels at the work zone boundary and the closest property boundary with a Realistic^{tm} hand-held sound level meter. Noise levels will be monitored in dBs in the A-weighted, slow-response mode. If noise level readings exceed an eight-hour time-weighted average of 85 dB at the work zone boundary or at the closest property boundary, the HSO will take appropriate measures to reduce noise exposure beyond these boundaries. These measures may include extension of the work zone boundary, issuing appropriate hearing protection devices as discussed in Section B.1.4 of this work plan, or other measures, as appropriate. In the event that the noise exposure measures are inadequate, work will cease until noise levels can be reduced to below 85 dB at the work zone boundary and/or at the closest property boundary.

APPENDIX C

PROJECT MANAGER AND QAO RESUMES

FPM

Stephanie O. Davis, PG, CPG

FPM group — Engineering and Environmental Science

Ms. Davis has diversified experience in geology and hydrogeology. Her professional experience includes groundwater and soil investigations, design and management of soil remediation projects, design and installation of groundwater containment and remediation systems, groundwater flow modeling, aquifer testing and interpretation, evaluation of site compliance with environmental regulations, environmental permitting, and personnel training.

Functional Role:
Hydrogeologist

Bid Schedule Category:
Program Manager

Title/Firm:
Department Manager
FPM Group, Ltd.

Years of Experience: **17**

Personal Data

Education

M.S./1984/Geology
B.S./1981/Geology

Registration and Certifications

OSHA - approved 40 hour Health and Safety Training Course
OSHA - approved 8 hour Health and Safety Training Refresher Courses
Certified Professional Geologist #9487, (AIPG) 1995
Pennsylvania Registered Geologist #PG-000529-G, 1994
California Registered Geologist #5192, 1991
Geological Society of America
National Ground Water Association
Long Island Geologists

Employment History

1993-Present	FPM Group
1992-1993	Chevron Research and Technology Co.
1990-1992	Chevron Manufacturing Co.
1984-1990	Chevron Exploration, Land, and Production Company

Continuing Education

* Treatment of Contaminated Soil and Rock
* Groundwater Pollution and Hydrology
* Environmental Law and Regulation
* Remedial Engineering
* Soil and Foundation Engineering

Detailed Experience

Site Investigations

Managed on-site and off-site soil and groundwater sampling program at a manufacturing facility in Bay Shore, NY. Compiled resulting data and prepared a comprehensive report of the investigation results for the Suffolk County Department of Health Services (SCDHS) and NYS Department of Environmental Conservation (NYSDEC). Proposed remediation technologies for on-site soil contamination and on-site and off-site groundwater contamination.

Managed and conducted a soil and groundwater sampling program using a Geoprobe sampler adjacent to Newark Airport Runway 29 for the Federal Aviation Administration. Analyzed resulting chemical analytical data and presented results to client.

Participated in soil and groundwater sampling using a Geoprobe sampler at a manufacturing facility in Suffolk County, New York. Compiled, reviewed, and presented the resulting chemical analytical data to the client.

Managed field sampling crews for major underground storage tank (UST) investigation at Plattsburgh AFB, NY, for AFCEE. Responsible for field crew training, coordination of sampling crews at separate sites, sample labeling, handling, tracking, and shipping, field data management and remote field office management. The scope of work included collection of over 450 groundwater samples to characterize groundwater conditions in the vicinity of 150 USTs using a Geoprobe sampling rig, wellpoints, and rapid turnaround-time analysis.

Planned and managed a Resource Conservation and Recovery Act (RCRA) Facilities Investigation (RFI) at Barksdale AFB, Louisiana for AFCEE. Responsible for all aspects of field program planning, solicitation and selection of subcontractors, mobilization and establishment of a field office, supervising multiple field crews, installation and sampling of monitoring wells, collection and soil samples, data tracking and management and preparation of an RFI report. The scope of work included characterization of the nature and extent of groundwater and soil contamination at thirteen Solid Waste Management Units (SWMUs), performing a base-wide evaluation of background contaminant concentrations, and developing a long-term groundwater monitoring program for the base.

Supervised and conducted drilling, soil sampling, cone penetrometer testing, and well installation at a refinery process water effluent treatment system and former municipal landfill.

Supervised drilling, installation, development, and sampling of monitoring wells at two commercial sites in Farmingdale, New York. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions.

Managed site investigation activities, including soil vapor sampling, soil sampling and analysis, groundwater sampling and analysis, and geotechnical evaluation for sites in Commack and Miller Place, New York. The resulting data were utilized by a major supermarket company in the negotiations for the purchase of the properties and in the property remediation prior to development.

Prepared various work plans and reports, including a RCRA Facilities Investigation Work plan, incorporating existing geologic, chemical and historical data, evaluating newly-acquired site data, and developing recommendations for further investigation and remedial action at a City of Richmond former municipal landfill.

Performed site investigation activities including soil vapor analysis, soil sample analysis, and groundwater sampling and analysis at an active commercial bus terminal in the Bronx, NY. Made recommendations for site remediation including UST removal, soil excavation and disposal, and *free-phase product extraction*.

Remediation

Designed soil remediation plan and managed contractor support for a metal parts plating and manufacturing facility in Suffolk County, New York. Soil remediation was overseen and approved by the SCDHS.

Designed and performed indoor underground storage tank abandonment program, leaching pool remediation plan, and managed contractor support for a tape measure manufacturing facility in Suffolk County, New York. SCDHS provided oversight and approval.

Participated in the design process for a groundwater containment and remediation system for a former municipal landfill, including subsurface groundwater barrier walls and extraction wells.

Designed soil remediation plan and supervised contractor performance of soil remediation activities at an active construction site in Carle Place, NY. Project involved excavation and disposal of approximately 5,000 tons of PCB-, metal-, and petroleum-contaminated soil. NYSDEC provided oversight and approval of the completed remediation.

Coordinated technical aspects of subsurface groundwater barrier wall construction, including routing, permitting, design, material selection, and field activities.

Hydrogeologic Evaluations

Participated in a multi-day, multi-well aquifer pumping test for New York City Transit (NYCT) Lennox Avenue site. Responsible for operating and maintaining data logging equipment, coordinating manual water level measurements, and analyzing resulting drawdown data.

Evaluated subsurface geologic conditions for NYCT Avenue T site utilizing existing boring logs, topographic, and historic map data.

Supervised drilling, installation and development of groundwater extraction, injection, and monitoring wells at a USEPA Superfund site in Deer Park, New York. Interpreted aquifer and well performance from development data and made recommendations for modification of drilling and development procedures.

Performed slug tests on monitoring wells at a New York City Transit Authority site, and evaluated hydrologic properties using the HYDROLOGIC ISOAQX computer program.

Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer program AQTESOLV.

Performed groundwater sampling at a radio tower facility in NJ. Analyzed results and made recommendations to client.

Performed water level and water quality monitoring at an industrial site in Mattituck, NY. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration.

Used the PC-based modeling program FLOW PATH to predict groundwater flow directions and evaluate extraction well locations and pumping rates for a groundwater containment and remediation system at a former municipal landfill.

- **Miscellaneous Projects**

Performed numerous Phase I Site Assessments for residential and industrial sites on Long Island, New York.

Conducted aquifer pumping and soil vapor extraction test training. Instructed classes for site investigation methods, aquifer pumping test analysis, and risk assessment.

Performed various project management functions, including development and management of project budgets and schedules, coordination of field and office staffing, document preparation, review, editing, and interaction with clients, regulatory, legal, real estate, consultant, and compliance personnel.

Organized, supervised, and conducted remote field mapping studies in Alaska.

Directed well site geophysical logging operations and interpreted geophysical well logs.

Conducted methane monitoring at Springs-Fireplace Road and Montauk Landfills for the Town of East Hampton.

Processed and interpreted seismic reflection data and constructed seismic velocity models.

Evaluated site compliance with environmental regulations. Assisted and reviewed regulator's revision of proposed risk assessment-based UST cleanup guidelines. Reviewed proposed USEPA NPDES permits for remediation system effluent.

Constructed and interpreted structural and stratigraphic cross sections, and structure contour, fault surface, isochore, and isopach maps.

Joseph Camanzo

FPM group — Engineering and Environmental Science

A senior chemist, Mr. Camanzo has extensive diversified experience in obtaining and evaluating subsurface chemical analytical data pertaining to soil and groundwater contamination. He has been involved with numerous remedial investigations and risk assessments aimed at evaluating potential impacts to human health and the environment.

Functional Role:
Technical Resource

Bid Schedule Category:
Senior Chemist

Title/Firm:
Senior Chemist
FPM Group, Ltd.

Years of Experience: **13**

Personal Data

Education
M.S./1985/Environmental Chemistry
B.S./1979/Biology/Chemistry

Registration and Certifications
OSHA - approved 40 hour Health and Safety Training Course
OSHA - approved 8 hour Health and Safety Training Refresher Courses

Employment History
1998 to Present
Fanning, Phillips and Molnar
1993 to 1998
ERM-Northeast, Inc.
1990 to 1993
Environmental Remediation and Assessment, Inc.
1988-1990
Eastern Analytical Services, Inc.
1986 to 1988
Emtek, Inc.

Detailed Experience

- **Remedial Investigation/Risk Assessment**

Associate project manager for a private party Remedial Investigation/Risk Assessment of an EPA Region 1 RI/FS Superfund Site. Contaminated ground water from the site, a precision ball bearing manufacturing facility, had impacted a municipal water supply well located on-half mile from the site. This investigation included technical and financial management, report writing and progress meeting presentations to EPA, State and local regulators.

Project manager for a Remedial Investigation/ Risk Assessment project involving a manufacturing facility which had two ground water contaminant plumes resulting from releases of chlorinated VOCs and No. 6 fuel oil. The contamination was horizontally and vertically characterized and a baseline risk assessment was performed to determine human health risk associated with the site. The risk assessment included hazard identification, exposure assessment, dose-response assessment and risk characterization.

Involved with numerous remedial investigations and risk assessments, used to evaluate public health risk at industrial and residential sites. These investigations involved various environmental media (soil, air and water) and assessed exposure pathways such as absorption, ingestion and inhalation. The risk assessments were performed according to EPA Superfund guidelines and ASTM risk based tiered approach. Projects also included fate and transport concentration calculations and determination of risk based clean up levels.

Performed many investigatory and remedial projects, from Phase I, Phase II site assessments, RI/FS projects, and remedial pilot studies.

Analytical Services

Overall responsibility for an organics division of an environmental analytical laboratory. Performed EPA analytical methods utilizing gas chromatography and mass spectroscopy (GS/MS). Supervised personnel, assured sample turnaround, performed QA/QC requirements and maintained analytical instrumentation. Interpreted and discussed analytical results for a wide variety of engineering and industrial clients.

Managed and operated a GC/MS field analytical laboratory for Brookhaven National Laboratory (BNL), used to analyze ground water and soil samples for VOCs and Pest/PCBs. This project required rapid turnaround results and a comprehensive report format and degree of QA/QC back-up data. The deliverables format was a "CLP" like package.

Conducted an USEPA supported study to determine sources of acid base/neutral extractable priority pollutants in Lake Michigan using nearshore fish tissue as contaminant indicators. The fish extracts from 14 tributaries and embayments were analyzed by GC/MS. The findings of this study were published in 1987 in the "Journal of Great Lakes Research".

Extensive experience in field sampling and field screening investigation using field detector and portable gas chromatographs. Field applications including head space water analysis, soil screening and soil-gas analysis.

Data Validation/Usability

Conducted data validation review on subcontractor laboratories analysis of soil/groundwater samples. These samples were from remediation projects as well as long term monitoring programs.

Completed reports and interpretation of data for submittal to military facilities.