SUBSURFACE INVESTIGATION REPORT
PROPOSED HOME DEPOT SITE
HAUPPAUGE, NEW YORK
AKL File No: 1630.1101 ENV

Prepared For:
Altman, Kritzer & Levick, P.C.
Atlanta, Georgia

Prepared By:
GZA GeoEnvironmental of New York
Buffalo, New York

May 1999
File No: 55303

GZA
GeoEnvironmental
of New York

*Engineers and
Scientists*

May 13, 1999
File No: 55303

Altman, Kritzer & Levick, P.C.
6400 Powers Ferry Road NW
Suite 224
Atlanta, Georgia 30339

Attention: Mr. Craig Colburn, Jr.

Re: Subsurface Investigation Report
Proposed Home Depot
Hauppauge, New York
AKL File No: 1630.1101 ENV

364 Nagel Drive
Buffalo
New York 14225
716-685-2300
FAX 716-685-3629
http://www.gza.net

Dear Mr. Colburn:

In accordance with our proposal dated January 12, 1999, GZA GeoEnvironmental of New York (GZA) is pleased to submit this report describing the results of the subsurface investigation at the above reference site.

We trust this report satisfies your present needs. Should you have any questions or require additional information following your review, please do not hesitate to contact the undersigned

Very truly yours,

GZA GEOENVIRONMENTAL OF NEW YORK

Michele M. Wittman
Assistant Project Manager

Charles D. Crealese/CP
Charles D. Crealese
Report Reviewer

Ernest R. Hanna, P.E.
Associate Principal

cc: Ms. Martha Israel, Manchester

TABLE OF CONTENTS

TABLES

TABLE OF CONTENTS (CONT'D)

FIGURES

APPENDICES

1.00 INTRODUCTION

GZA GeoEnvironmental of New York (GZA) conducted supplemental subsurface exploratory work at the proposed Home Depot Site in Hauppauge, New York (Site) for Altman, Kritzer & Levick, P.C. (AKL). The objectives of our work were to confirm the environmental findings by others and to collect additional environmental data to serve as a basis for addressing environmental concerns during site development. To meet these objectives, GZA reviewed environmental and geotechnical reports prepared by others and conducted a subsurface exploration program consisting of 11 test pit excavations and 4 test borings. The 4 test borings were instrumented with gas monitoring wells. Soil samples were field screened and some were submitted to an analytical laboratory for chemical testing. The findings and conclusions presented in this report are subject to the Limitations contained in Appendix A.

2.00 BACKGROUND

The Site consists of a 17-acre parcel of land located on Edison Drive near the Long Island Expressway (I-495) in Hauppauge, New York. The site location is indicated on the Locus Plan, Figure 1. The Site was formerly used for sand mining operations and is also located adjacent to an existing inactive landfill operated by the Town of Islip, New York. Based on exploratory work conducted by others, debris and waste materials, as well as soil fill materials, have been placed on the Site, and are present to depths of up to about 35 feet below existing site grades. Waste and debris materials are apparently present in the southern and southeastern portions of the Site. Fill materials over the remainder of the Site appear to be sandy soils.

AKL provided GZA with three reports prepared by others, including a Phase I Environmental Site Assessment (ESA), a Phase II Assessment, and a Geotechnical Report. Each is summarized below.

2.10 PREVIOUS PHASE I ENVIRONMENTAL SITE ASSESSMENT

The "Phase I Environmental Site Assessment, Proposed Home Depot Location, South Service Road of the Long Island Expressway and Edison Drive, Huappauge, New York", was prepared by Roux Associates, Inc. (Roux) for AKL and dated August 3, 1998. This report states that the work was done in accordance with ASTM D1527-94. Roux conducted a regulatory environmental database search, interviews, historical review, and a walkover of the Site.

Roux stated in its ESA report that:

- The Site was formerly a sand and gravel quarry that is no longer in operation. Several large stockpiles of sand were located on the Site.

- A small, shallow pond, which developed from runoff collected in a man-made depression, was present.

- There was evidence of fill and dumping across the entire Site.

- Five landfill gas monitoring wells were monitored by Roux. Methane concentrations in one on-Site monitoring well and one off-Site monitoring well were greater than 5 part per million (ppm) or 100 percent of the lower explosive limit (LEL). These concentrations were greater than the New York State Department of Environmental Conservation (NYSDEC) limit of 5 percent of the LEL.

Roux identified the following environmental conditions at the Site.

- The Site is adjacent to a household trash dump, consisting of buried solid waste which appears to be present at the southern corner of the Site. Roux recommended a test pit and/or soil boring investigation to determine the extent of the buried soil waste at the Site.

- The southern portion of the Site was once used as a fill area for materials such as sand, concrete, asphalt, iron, brick, road construction debris and demolition debris. Preliminary monitoring of existing landfill gas monitoring wells indicated that methane was present beneath the Site. Roux recommended a soil gas investigation be conducted to determine the nature and extent of the gas.

- One Inactive Hazardous Waste Site, Glaro, Inc., is located upgradient of the Site. The facility is currently under remediation. Roux requested access to the NYSDEC files pertaining to the facility.

2.20 PREVIOUS PHASE II ASSESSMENT

The "Limited Phase II Environmental Site Assessment, Proposed Home Depot Location, South Service Road of the Long Island Expressway and Edison Drive, Hauppauge, New York", was prepared by Roux for AKL and dated October 20, 1998.

The purpose of the Phase II investigation was to evaluate the lateral extent of the migration of the landfill gases and to qualitatively determine the amount of gas present. To accomplish this, Roux installed 15 temporary soil gas monitoring wells and measured the static gas concentration in each. A longer term soil gas vacuum testing was also done at five of the wells. Laboratory analysis was done on three soil gas samples. Roux also performed a subsurface exploration program consisting of eight test pits to evaluate the area for the presence of household trash or industrial waste.

Roux concluded that buried trash is present in isolated locations on the Site and that considerable concentrations of landfill gas was present across the southern portion of the Site.

Based on the results of long-term vacuum testing, Roux concluded that landfill gas is present in quantities that will require passive and/or active venting for the proposed development.

2.30 PREVIOUS GEOTECHNICAL REPORT

The "Geotechnical Report, Site Location, The Home Depot, Off Route 111 and L.I.E. So. Service Road, Hauppauge, New York, 98-581", was prepared for Greenberg Farrow Architectural Planning, by Soil Mechanics Drilling Corp. (SMDC), and dated August, 1998.

The purpose of the investigation was to determine the nature and extent of the underlying soil deposits and determine the structural engineering characteristics of the soil at the Site. The subsurface exploration program, done by SMDC, consisted of 57 borings drilled to depths ranging from 22 to 47 feet. Up to 33 feet of loose to moderately dense soil fill with traces of wood, underlain by naturally deposed sand and gravel was encountered. No groundwater was encountered in the soil borings. However, a large pond was present in the proposed building area.

SMDC recommended that existing fill be excavated from the building pad area and replaced with controlled fill. SMDC recommended that the building be supported by conventional spread footings with slab-on-grade.

SMDC recommended that the proposed parking lot area be proofrolled prior to fill or base course placement to densify existing fill soils. Conventional light and heavy duty pavement sections were recommended.

3.00 PURPOSE AND SCOPE OF WORK

The objective of GZA's exploratory work is to confirm the findings presented in Roux Associates, Inc. environmental reports and to further characterize existing fill materials present at the Site. To accomplish this, the following activities were completed.

- Observed the excavation of 11 test pits on Site by GZA's subcontractor, SJB Services, Inc. (SJB).
- Observed the installation of four 2-inch diameter PVC landfill gas monitoring wells (GMW) by SJB.
- Field screened soil samples from test pits and GMW test borings using an organic vapor meter (OVM) equipped with a photoionization detector and a multi-gas monitor (MGM).
- Collected and tested selected soil samples from the test pits and GMW test borings for volatile organic compounds (VOCs) via EPA Method 8021 (STARS parameters) and semi-

volatile organic compounds (SVOC) via EPA Method 8270 (STARS parameters). STARS parameters are based on New York State Department of Environmental Conservation Spill Technology and Remediation Series (STARS) Memo #1, Petroleum-Contaminated Soil Guidance Policy, August 1992. Additionally, the samples were analyzed for PCBs via EPA Method 8080, RCRA 8 metals and landfill leachate parameters.

- Prepared this report which summarizes the data collected during our environmental investigation.

4.00 FIELD STUDIES

This section describes the field studies done as part of GZA's subsurface investigations.

4.10 TEST PIT EXPLORATIONS

Test pit excavations were done with a Kobelco TLK 760 backhoe operated by SJB. The test pits were extended to about 8 to 14.5 feet below ground surface. Test pit soil samples were screened for organic vapor compounds using an organic vapor meter (OVM) outfitted with a 10.2 eV ultraviolet lamp. Additionally, the test pit soil was monitored with a multi-gas monitor, measuring percent methane (CH_4), percent lower explosive limit (LEL), percent oxygen (O_2), and parts per million (ppm) of hydrogen sulfide (H_2S). Upon completion, each test pit was backfilled with the excavated material. Test pit locations, designated TP-13 through TP-23, are shown on Figure 2.

A GZA representative was on Site to observe the excavation of the test pits and prepare logs documenting our findings. Test pit logs and results of the screening are included in Appendix B.

4.20 TEST BORING AND LANDFILL GAS MONITORING WELL INSTALLATIONS

On February 2 and 3, SJB drilled four borings. A 2-inch diameter PVC GW was constructed at each boring location. The borings are designated as B-59/GW-1 to B-62/GW-4. The locations of the borings are shown on Figure 2.

Borings were made with a truck-mounted CME 85 drill rig. Each boring was advanced using 4-¼ inch, inside diameter (I.D.) hollow stem augers. The drill rig and tools were steam cleaned prior to use and between test borings. Soil samples were collected from the borings with a 2-inch diameter, 24-inch long split spoon sampler. Soil samples were taken at 2-foot intervals to a depth of approximately 25 to 30 feet below ground surface. A 140-pound hammer free-falling 30 inches was used to advance the sampler. The number of blows required to drive the split spoon from 6 to 18 inches of penetration was recorded as the Standard Penetration Test

(SPT) N-value. The split spoon sampler was cleaned between sample locations with a solution of alconox and potable water and rinsed with potable water. Representative portions of the split spoon samples were placed in clean 8 ounce jars.

GZA prepared boring logs describing the general subsurface conditions observed at each test boring location. These logs include a description of the consistency (based on SPT results), color, gradation, plasticity, and water content (based on observation) of each soil sample collected. Boring logs are contained in Appendix B.

Following drilling, GMWs were constructed in each borings. GMW materials consist of an approximate 15 foot long section of 2-inch I.D. threaded PVC screen (number 10 slot) with a bottom plug; and a 2-inch I.D. PVC riser of varying length. The well materials were assembled as they were lowered to the desired depth within the borehole. The well screen and riser used for the GW appeared clean and were individually wrapped in plastic upon arrival at the Site.

Following installation of the materials, Granusil #2040 grade sand was placed into the annular space of the borehole to a minimum of 2 to 3 foot above the screen. Approximately 2 to 3 feet of bentonite pellets were placed above the sand. A grout/bentonite slurry was placed above the bentonite pellets. A concrete surface seal was then installed and a protective casing was placed in the concrete seal. Additional details regarding the GMW installation are included on the boring logs in Appendix B.

4.30 HEADSPACE SCREENING PROCEDURE

Soil samples were screened for VOCs using an OVM equipped with a photoionization detector consisting of a 10.2 eV ultraviolet lamp. The OVM was made by HNu System, Inc., Model No. PI-101; it was calibrated in accordance with manufacturers recommendations. A gas standard of isobutylene was used at an equivalent concentration of 60 parts per million (ppm) as benzene for calibration. Ambient air at the Site was used to establish background organic vapor concentrations. The headspace screening was done by first allowing the samples to equilibrate to approximately 70° F. A 30 milliliter (ml) syringe was used to puncture the cover of the sample and remove an aliquot of headspace air which was then injected into the sampling probe of the OVM. The highest reading was recorded. Syringe blanks were analyzed between samples. Results of the screening are summarized on Table 1, and are included on the logs in Appendix B.

Soil samples were also screened for CH_4, LEL, O_2 and H_2S with a Industrial Scientific STX 620 multi-gas monitor (MGM). Air from the test pits and gas vents was drawn from through tubing using the meter's internal sampling pump. The MGM was then used to analyze the air. The MGM was calibrated to 2.5% CH_4, 50% LEL, 19.0% O_2 and 25 ppm H_2S. The results of the MGM screening are also presented on Table 1.

5.00 ANALYTICAL LABORATORY TESTING

Eleven soil samples were selected for laboratory analysis (See Table 2). Each of the selected samples was sent to Paradigm Environmental of Rochester, New York (Paradigm). Six soil samples were analyzed for volatile organic compounds (VOCs) via EPA Method 8021 (STARS parameters) and SVOCs via EPA Method 8270 (STARS parameters). Additionally, five soil samples were tested for PCBs, RCRA 8 metals including cadmium, chromium, copper, mercury, nickel, lead, potassium, zinc, and typical leachate parameters which include total solids, total volatile solids, nitrate, nitrite, ammonia, total kjeldahl nitrogen (TKN), and total phosphorus.

6.00 SUBSURFACE CONDITIONS

Subsurface conditions at the boring and test pit locations generally consisted of a sand and gravel fill, overlying naturally deposited gravely sand units. The fill material generally consisted of sand and gravel intermixed with various amounts of waste. The waste included concrete, brick, paper, plastic, wood, scrap metal, and miscellaneous debris. The fill extended from 6 to 22 feet below ground surface. Natural sandy gravel, encountered at each boring location, extended to the bottom depth of each boring. Groundwater was not encountered at any of the boring and test pit locations.

It should be noted that it was not possible to delineate the northern horizontal limit of waste/fill materials due to a large shallow ponded area located within the proposed building pad area. Based upon the recent boring and test pit explorations and prior subsurface investigations done by others, our estimate of the approximate limit of waste/fill materials is shown in Figure 2.

7.00 ANALYTICAL TEST RESULTS

Findings of soil screening and laboratory testing of soil samples are presented below. The analytical laboratory report is provided in Appendix C. Table 2 presents the location and depth interval of the selected samples.

7.10 HEADSPACE SCREENING RESULTS

Total organic vapors above background were detected in soil samples from the borings. The concentrations detected at the borings ranged from 1 to 19 ppm. OVM readings were detected in soil samples collected at depths between ground surface to 28 feet.

A MGM was used to measure CH_4, LEL, O_2 and H_2S. CH_4 and H_2S were not detected in the soil samples. LEL of 6 percent was detected at B-60 from 6 to 8 feet. This soil consisted of sand and gravel with organic material. O_2 levels in the soil samples ranged from 19.1 to 21%. Table 1 presents the results of the screening.

7.20 LANDFILL GAS MONITORING WELL RESULTS

Landfill gas monitoring was done in the gas monitoring wells. The air was drawn from the riser through tubing using the meter's internal sampling pump. Total organic vapors and H_2S were not detected in the wells. However, the LEL percentage detected was over the detection limit of the meter. The O_2 percentage was noted to range from 0.4 to 1.2 percent. Additionally, methane (CH_4) ranged from 9 percent to 13 percent. Results are summarized on Table 3.

7.30 SOIL SAMPLE ANALYTICAL TEST RESULTS

Eleven soil samples were submitted to Paradigm for laboratory analysis. Table 4 presents the analytical results for soil samples collected at the Site.

- VOCs above NYSDEC guidance values were detected in soil samples from test pit TP-19, at a depth of 2 to 3 feet, in the fill and miscellaneous debris material. These levels slightly exceed NYSDEC guidance values. Additionally, VOCs were detected in a soil sample collected from test pit TP-20 at a depth of 4 to 6 feet. These levels were below NYSDEC guidance values.

- SVOCs were detected in the soil samples from test pits TP-13, TP-14 and TP-20 in the fill material. The concentrations of these detected compounds are above NYSDEC guidance values.

- Detectable concentrations of metals were noted in the five test pit soil samples tested. The reported concentrations were compared to the NYSDEC Eastern USA Background guidance value. From this comparison, it was found that cadmium and zinc slightly exceeded the guidance value. Background metal concentrations were not determined at the Site.

- Leachate parameters were detected in the five test pit soil samples tested. Detected parameters included ammonia, total kjeldahl nitrogen (TKN) and total phosphorus. Additionally, pH of the samples was noted to range from 7.4 to 7.9.

- PCBs were not detected in the analyzed soil samples.

8.00 CONCLUSIONS AND RECOMMENDATIONS

GZA was retained to confirm the findings presented in previous environmental reports and to further characterize existing fill materials present at the Site. Our findings confirmed the presence of buried waste fill, contaminated soils, and methane gas in the southern portion of the Site. The study included 11 test pits, four borings/landfill gas monitoring well installations, soil headspace screening on soils taken from the borings and test pits, and soil sample collection and analysis from borings and test pits.

On the basis of the information obtained as part of these studies, it is GZA's opinion that contamination is present in the fill material located in the southern area of the site. The contamination consists of VOCs, SVOCs, metals and methane gas. However, based upon the level of VOCs, SVOCs and metals encountered and the proposed commercial site use, this contamination is not expected to be an imminent threat to human health or the environment. VOC and SVOC concentrations detected exceed NYSDEC guidance values. Landfill gas monitoring indicated that explosive gas, including methane, and low O_2 levels are present in the underlying fill material. GZA offers the following recommendations.

- A plan should be developed for construction that describes procedures for screening and handling potentially contaminated soils and for methane monitoring during excavations. The plan should outline screening criteria for determining whether excavated materials can be re-used on-site or whether off-site disposal is required. The plan should identify potential off-site disposal locations, which may include the closed Town of Islip landfill. The plan should be submitted to the NYSDEC for approval, along with a copy of this report and earlier environmental reports by others.

- Site development plans should consider the presence of waste materials and their potential post-construction implications. Current site plans call for the over excavation of waste, debris and fill from beneath the proposed building area. Based on the findings presented in this report, it is likely that some of the materials that will be encountered will be solid waste that will require off-site disposal and/or contaminated materials. Because of the highly variable nature of the materials to be encountered, it is not possible to quantify the amount of material that will require off-site disposal, or the cost for disposal. Given the planned use of the Site, we believe that the presence of the waste and contaminated fills do not pose a significant threat to human health or the environment. Therefore, we recommend that, to the extent possible, excavation into the waste and fill materials be limited. To that end, consideration should be given to foundation options, such as caissons or piles, that would not require over excavation of materials from beneath the building footprint.

- Waste and debris materials that are left in-place in pavement or landscaped areas may pose long-term settlement problems that will require regular maintenance.

Engineering controls to mitigate long term affects, such as deep densification or pavement sections that incorporate geotextile stabilization fabrics, should be considered.

- Environmental monitoring should be conducted during earthwork to monitor for the presence of methane and to identify potentially contaminated soils that will require special handling, in accordance with the plan for handling contaminated materials.

- Active venting of methane gas from beneath the proposed building is recommended. A passive venting system is recommended for the paved parking area. In addition, a one-foot thick low permeability soil cap should be provided over potentially contaminated fill to be left in place in areas that will not otherwise be covered with buildings or pavement.

TABLES

TABLE 1

Summary of Headspace Gas Results
Proposed Home Depot Facility
Hauppauge, New York

Date	Location			Hnu (ppm)	Industrial Scientific ATX 620			
	Boring No.	Sample No.	Sample Depth (ft.)		LEL (%)	H_2S (ppm)	CH_4 (%)	O_2 (%)
02/02/1999	B-59	S-1	0-2	2	ND	ND	ND	20.1
		S-2	2-4	ND	ND	ND	ND	20.9
		S-3	4-6	ND	ND	ND	ND	20.8
		S-4	6-8	ND	ND	ND	ND	20.7
		S-5	8-10	ND	ND	ND	ND	20.9
		S-6	10-12	ND	ND	ND	ND	20.8
		S-7	12-14	ND	ND	ND	ND	20.9
		S-8	14-16	2	ND	ND	ND	20.8
		S-9	16-18	1	ND	ND	ND	20.0
		S-10	18-20	3	ND	ND	ND	19.5
		S-11	20-22	3	ND	ND	ND	19.1
		S-12	22-24	2	ND	ND	ND	20.1
		S-13	24-26	1	ND	ND	ND	20.1
		S-14	26-28	ND	ND	ND	ND	20.1
02/02/1999	B-60	S-1	0-2	7	ND	ND	ND	20.7
		S-2	2-4	1	ND	ND	ND	20.0
		S-3	4-6	ND	ND	ND	ND	19.7
		S-4	6-8	ND	6.0	ND	ND	19.2
		S-5	8-10	2	ND	ND	ND	19.2
		S-6	10-12	2	ND	ND	ND	19.8
		S-7	12-14	1	ND	ND	ND	20.1
		S-8	14-16	ND	ND	ND	ND	20.4
		S-9	16-18	9	ND	ND	ND	20.1
		S-10	18-20	19	ND	ND	ND	19.2
		S-11	20-22	ND	ND	ND	ND	20.6
		S-12	22-24	ND	ND	ND	ND	20.5
		S-13	24-26	1	ND	ND	ND	20.1
		S-14	26-28	5	ND	ND	ND	20

TABLE 1

Summary of Headspace Gas Results
Proposed Home Depot Facility
Hauppauge, New York

Date	Location			Hnu (ppm)	Industrial Scientific ATX 620			
	Boring No.	Sample No.	Sample Depth (ft.)		LEL (%)	H_2S (ppm)	CH_4 (%)	O_2 (%)
02/03/1999	B-61	S-1	0-2	ND	ND	ND	ND	19.7
		S-2	2-4	ND	ND	ND	ND	21.0
		S-3	4-6	ND	ND	ND	ND	20.2
		S-4	6-8	ND	ND	ND	ND	20.9
		S-5	8-10	1	ND	ND	ND	20.4
		S-6	10-12	ND	ND	ND	ND	20.9
		S-7	12-14	ND	ND	ND	ND	20.4
		S-8	14-16	3	ND	ND	ND	20.4
		S-9	16-18	2	ND	ND	ND	20.8
		S-10	18-20	3	ND	ND	ND	20.9
02/03/1999	B-62	S-1	0-2	ND	ND	ND	ND	20.8
		S-2	2-4	ND	ND	ND	ND	20.2
		S-3	4-6	ND	ND	ND	ND	20.4
		S-4	6-8	ND	ND	ND	ND	20.7
		S-5	8-10	ND	ND	ND	ND	20.0
		S-6	10-12	ND	ND	ND	ND	20.6
		S-7	12-14	ND	ND	ND	ND	20.9
		S-8	14-16	ND	ND	ND	ND	19.1
		S-9	16-18	ND	ND	ND	ND	20.5
		S-10	18-20	1	ND	ND	ND	19.9

Notes:

1) Industrial Scientific ATX 620 multi-gas monitor used to measure percent methane (%CH_4), percent lower explosive limit (%LEL), percent oxygen (%O_2), and parts per million of hydrogen sulfide ppm (H_2S). ATX 620 calibrated to 50% LEL, 25 ppm H_2S, 2.5% CH_4 and 19.0% O_2 prior to use.

2) OVR = Over-range condition, the upper limit of the sensor was exceeded,

3) ND = Not Detected

4) NR = No Reading

TABLE 2

File: 55303

Analytical Testing Program Summary
Proposed Home Depot
Hauppauge, New York

Location	Depth/ Interval (ft bgs)	Matrix	STARS 8021 VOCs	STARS 8270 Semi-VOCs	PCB	RCRA 8 Metals	Leachate Parameters
Soil Test Samples							
TP-13, S-1	2 to 3	Soil	X	X			
TP-13, S-2	3 to 4	Soil			X	X	X
TP-14, S-1	4 to 5	Soil	X	X			
TP-14, S-2	4 to 5	Soil			X	X	X
TP-16, S-1	10	Soil	X	X			
TP-16, S-2	11 to 13	Soil			X	X	X
TP-19, S-1	2 to 3	Soil	X	X			
TP-19, S-2	6 to 7	Soil			X	X	X
TP-20, S-1	4 to 6	Soil	X	X			
TP-20, S-2	7 to 8	Soil			X	X	X
B-60, S-10	18 to 20	Soil	X	X			

Notes: 1) ft bgs = feet below ground surface
2) Leachate Parameters include Total Solidas, Total Volatile Solids, Nitrate Nitrite, Ammonia, Total Kjeldahl Nitrogen, and Total Phosphorus.

TABLE 3

Summary of Gas Monitoring Well Results

Proposed Home Depot Facility
Hauppauge, New York

Date	Well No.	HNu	Industrial Scientific ATX 620				Notes
		(ppm)	LEL (%)	H_2S (ppm)	CH_4 (%)	O_2 (%)	
02/04/1999	B-59, GW-1	ND	OVR	ND	14	0.4	Reading taken @ 0800
02/04/1999	B-60, GW-2	ND	OVR	ND	11.0	0.5	Reading taken @ 0815
02/04/1999	B-61, GW-3	ND	OVR	ND	9.0	1.2	Reading taken @ 0820
02/04/1999	B-62, GW-4	ND	OVR	ND	13.0	0.8	Reading taken @ 0825

Notes:

1) Industrial Scientific ATX 620 multi-gas monitor used to measure percent methane (%CH_4), percent lower explosive limit (% LEL), percent oxygen (%O_2), and parts per million of hydrogen sulfide (ppm H_2S). Air from the manholes, riser pipes and gas vents was drawn from through tubing using the meters internal sampling pump. The ATX 620 was then used to analyze the air. ATX 620 calibrated to 50% LEL, 25 ppm H_2S, 2.5% CH_4, and 19.0% O_2 prior to use.

2) OVR = Over-range condition, the upper limit of the sensor was exceeded, ND = not detected.

TABLE 4
Soil Analytical Testing Results Summary
Proposed Home Depot
Hauppauge, New York

Parameter	NYSDEC Guidance Value	TP-13, S-1 2-3'	TP-13, S-2 3-4'	TP-14, S-1 4-5'	TP-14, S-2 4-5'	TP-16, S-1 10'	TP-16, S-2 11-13'	TP-19, S-1 2-3'	TP-19, S-2 6-7'	TP-20, S-1 4-6'	TP-20, S-2 7-8'	B-60, S-10 18-20'
VOC - EPA Method 8021 STARS (mg/kg)												
Ethylbenzene	0.1		NT		NT		NT	0.07	NT		NT	
Isopropylbenzene	0.1		NT		NT		NT	0.01	NT		NT	
p-Isopropyltoluene	0.1		NT		NT		NT	0.03	NT		NT	
Naphthalene	0.2		NT		NT		NT	0.11	NT	0.04	NT	
n-Propylbenzene	0.1		NT		NT		NT	0.02	NT		NT	
1,2,4-Trimethylbenzene	0.1		NT		NT		NT	0.14	NT	0.02	NT	
1,3,5-Trimethylbenzene	0.1		NT		NT		NT	0.07	NT		NT	
m&p Xylene	0.1		NT		NT		NT	0.12	NT	0.01	NT	
Semi VOC - EPA Method 8270 STARS (mg/kg)												
Anthracene	1		NT	0.59	NT		NT		NT	0.42	NT	
Phenanthrene	1	0.46	NT	2.73	NT		NT		NT	1.29	NT	
Pyrene	1	0.67	NT	3.27	NT		NT		NT	1.44	NT	
Benzo(a)anthracene	0.00004*		NT	1.27	NT		NT		NT	0.60	NT	
Fluoranthene	1	0.67	NT	2.89	NT		NT		NT	1.21	NT	
Benzo(b)fluoranthene	0.00004*		NT	1.56	NT		NT		NT	0.52	NT	
Benzo(k)fluoranthene	0.00004*		NT	1.48	NT		NT		NT	0.62	NT	
Chrysene	0.00004*	0.32	NT	1.49	NT		NT		NT	0.70	NT	
Benzo(a)pyrene	0.00004*		NT	1.04	NT		NT		NT	0.35	NT	
Indeno(1,2,3-cd)pyrene	0.00004*		NT	0.63	NT		NT		NT		NT	
RCRA 8 Metals (mg/kg)	**Eastern USA Background**											
Cadmium	0.1-1	NT	1.34	NT	3.74	NT	1.5	NT	1.45	NT		NT
Chromium	1.5-40	NT	6.62	NT	15.1	NT	9.71	NT	6.56	NT	3.25	NT
Copper	1-50	NT	9.02	NT	47.7	NT	17.3	NT	6.86	NT	2.87	NT
Mercury	0.001-0.2	NT	0.11	NT	0.19	NT	0.1	NT	0.04	NT		NT
Nickel	0.5-25	NT	6.34	NT	35.5	NT	7.06	NT	6.48	NT		NT
Lead	See Note 6	NT	49.8	NT	130	NT	78.4	NT	31.5	NT	22.4	NT
Potassium	8500-43,000	NT	454	NT	537	NT	399	NT	232	NT	214	NT
Zinc	9-30	NT	48.9	NT	146	NT	159	NT	38.1	NT	24	NT
Leachate Parameters (mg/kg)												
Total-Solids	-	NT	91.6%	NT	92.4%	NT	92.2%	NT	89.9%	NT	96.1%	NT
Total Volatile Solids	-	NT	2.0%	NT	2.9%	NT	2.7%	NT		NT		NT
Nitrate	-	NT		NT		NT		NT		NT		NT
Nitrite	-	NT		NT		NT		NT		NT		NT
Ammonia	-	NT	16	NT	120.00	NT	70	NT	23	NT	4	NT
Total Kjeldahl Nitrogen (TKN)	-	NT	324	NT	487	NT	211	NT	373	NT	104	NT
Total-Phosphorus	-	NT	1.6	NT	2.6	NT	1.7	NT	1.5	NT	6.5	NT
pH												
	-	NT	7.68	NT	7.47	NT	7.94	NT	7.7	NT	7.64	NT
PCBs												
		NT		NT		NT		NT		NT		NT

Notes:
1. Only compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in analysis.
2. Blank = Indicated compound was not detected at the detection limit.
3. Analytical Testing completed by Paradigm Environmental Services, Inc.
4. Soil guidance value based on NYSDEC Spill Technology and Remediation Series (STARS) Memo #1, Petroleum-Contaminated Soil Guidance Policy, August, 1992.
5. Eastern US Background values based on US Geological Survy Professional Paper 1270 - Element Concentrations in Soils and Other Surficial Materials in the Conterminous United States, 1984.
6. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 mg/kg. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 mg/kg.
7. * = Due to the high detection limit for a solid matrix, the TCLP Extraction Method must be used to demonstrate groundwater quality protection for these compounds
8. Shaded areas indicate compound detected above listed guidance values.
9. NT = not tested
10. - = No NYSDEC guidance value available

APPENDIX A

LIMITATIONS

LIMITATIONS

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services.

2. In preparing this report, GZA GeoEnvironmental of New York (GZA) has relied on certain information provided by other parties referenced therein. Although there may have been some degree of overlap in the information provided by these various sources, GZA did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of our work.

3. In the event that Altman, Kritzer & Levick obtains information on environmental or hazardous waste issues at the site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

4. Observations were made of the site indicated within the report. Where access to portions of the site was unavailable or limited, GZA renders no opinion as to the presence of hazardous material or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the site.

5. Unless otherwise specified in the report, GZA did not perform testing or analyses to determine the presence or concentration of asbestos or polychlorinated biphenyls (PCB's) at the site or in the environment at the site.

6. The purpose of this report was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous material or oil. No specific attempt was made to check on the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.

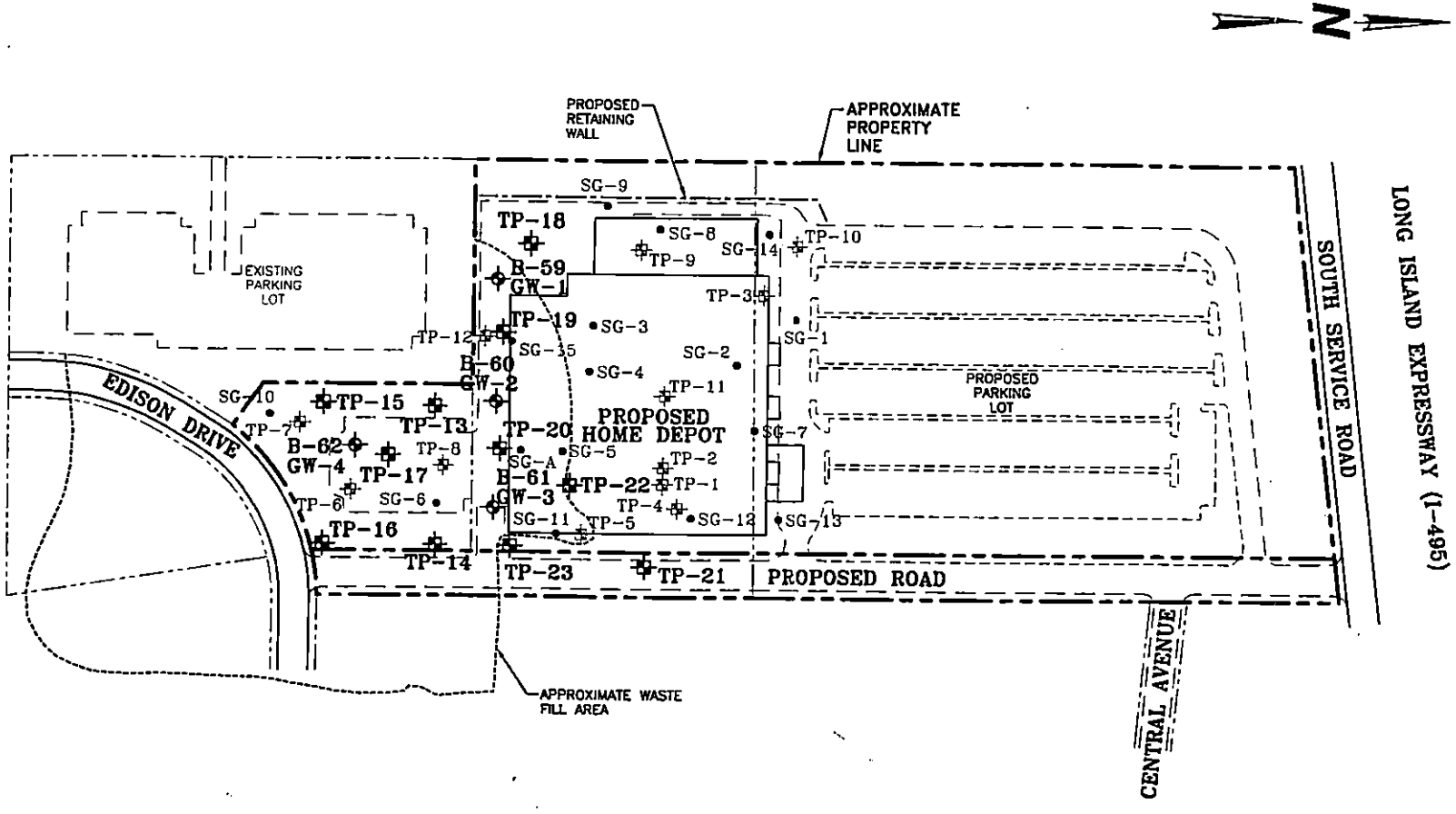
7. Quantitative laboratory testing was performed as part of this study, as described in the text. As such analyses have been conducted by an outside laboratory, GZA has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.

8. The conclusions and recommendations contained in this report are based in part upon the data obtained from a limited number of soil and/or groundwater samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

9. Water level readings have been made in the test pits, borings, and/or observation wells at the times and under the conditions stated on the test pit or boring logs. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

10. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA and the conclusions and recommendations presented herein modified accordingly.

11. Chemical analyses have been performed for specific parameters during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site.



LEGEND:

- TP-17 ⊕ — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT DONE GZA ON FEBRUARY 3 & 4, 1999
- B-62 GW-4 ⊕ — APPROXIMATE LOCATION AND DESIGNATION OF TEST BORING/GAS WELL INSTALLED ON FEBRUARY 3 & 4, 1999
- ⊕TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT DONE BY OTHERS. (SEE NOTE 2)
- •SG-12 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL GAS SAMPLE TAKEN BY OTHERS. (SEE NOTE 2)

NOTES:

1. BASE MAP ADAPTED FROM A PLAN ENTITLED, "THE HOME DEPOT, HAUPPAUGE, NY; LONG ISLAND MOTOR PKWY & EDISON RD.; GFA PROJECT NUMBER 950607.02; NY-1991", PREPARED BY GREENBERG FARROW ARCHITECTURE, DATED 09/28/98.
2. LOCATION OF TEST PITS AND SOIL GAS SAMPLES BASED ON PLAN ENTITLED, "SITE PHOTOGRAPH; THE HOME DEPOT, HAUPPAUGE, NEW YORK; FIGURE 2", PREPARED BY ROUX ASSOCIATES, INC., DATED 10/98. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
3. THE SIZE AND LOCATION OF EXISTING AND PROPOSED SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

REV No. | DESCRIPTION | BY | DATE

DRAWN BY: DEW
DATE: MAY 1999

SCALE IN FEET
0 75 150 300

GZA GeoEnvironmental of New York

THE HOME DEPOT
LONG ISLAND MOTOR PARKWAY & EDISON ROAD
HAUPPAUGE, NEW YORK
SUPPLEMENTAL WORK

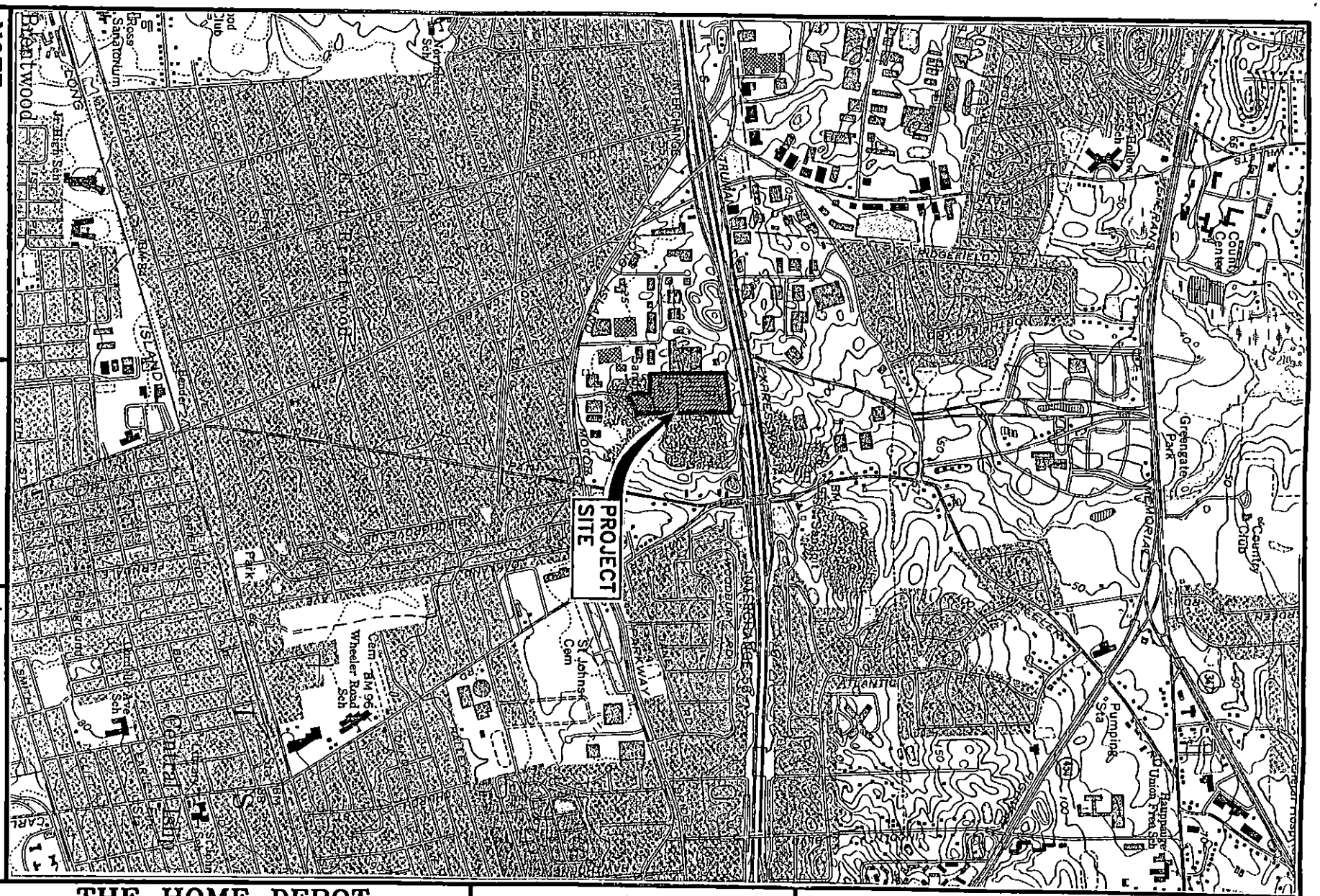
SITE AND EXPLORATION LOCATION PLAN

PROJECT No.
55303

FIGURE No.
2

FIGURES

NOTE:
BASE MAP ADAPTED FROM
U.S.G.S. QUADRANGLE MAP
CENTRAL ISLIP, N.Y. - 1979.



THE HOME DEPOT
LONG ISLAND MOTOR PARKWAY & EDISON ROAD
HAUPPAUGE, NEW YORK

SUPPLEMENTAL WORK

LOCUS PLAN

SCALE IN FEET

0 1000 2000 4000

DRAWN BY: DEW

DATE: MAY 1999

GZA GeoEnvironmental of New York

PROJECT No. 55303

FIGURE No. 1

APPENDIX B

BORING AND TEST PIT LOGS

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

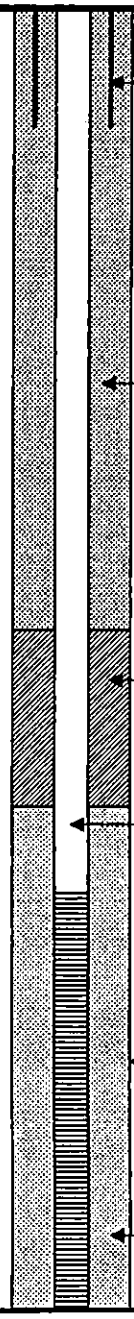
BORING No. B-59/GW-1
SHEET 1 OF 2
FILE No. 55303
Checked By:MMW

CONTRACTOR	SJB	BORING LOCATION	See Location Plan
DRILLER	Chris Ackley	GROUND SURFACE ELEVATION	N/A DATUM
START DATE: 02/02/1999	END DATE: 02/02/1999	GZA GEOENVIRONMENTAL REPRESENTATIVE	T. Schara

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	NOTES
02/02/1999		NWAC	in	

TYPE OF DRILL RIG	CME-85
CASING SIZE AND DIAMETER	4.25" I.D. HSA
OVERBURDEN SAMPLING METHOD	2" O.D. x 24" Split Spoon Sampler
ROCK DRILLING METHOD	N.A.

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	OVM (ppm)
	3	S-1	0-2	22	30	Med. dense, lt.brown to gray	2
1	10					f/c SAND, trace Gravel,	
	12					moist. (FILL)	
2	16						
	8	S-2	2-4	20	40		ND
3	10						
	10						
4	12						
	7	S-3	4-6	12	30	Grades to:...dk. gray, tr. organics.	ND
5	7						
	5						
6	7						
	7	S-4	6-8	17	40		ND
7	11						
	6						
8	5						
	2	S-5	8-10	8	50	Grades to:... loose, gray.	ND
9	3						
	5						
10	5						
	5	S-6	10-12	27	50	Grades to:... med. dense, dk. gray.	ND
11	12						
	15						
12	17						
	15	S-7	12-14	19	30		ND
13	10						
	9						
14	5						
	5	S-8	14-16	17	30	Grades to:... dk brown.	2
15	6						
	11						
16	4						
	2	S-9	16-18	5	10	Grades to:... loose.	1
17	2						
	3						
18	3						
	4	S-10	18-20	6	10	Grades to:... dk. gray, some Gravel.	3
19	3						
	3						
20	3						
	8	S-11	20-22	26	15	Grades to:... med dense tr.	3
21	12					Gravel, tr. Brick.	
	14						
22	8						



WELL INSTALLATION DIAGRAM

EQUIPMENT DESCRIPTION

- 4.0 inch O.D., square, protective, steel, locking casing, set in grout seal to 2.0 feet.
- Cement/bentonite grout, to 10.5 feet.
- Bentonite chips: 10.5 to 13.5 feet.
- 2 inch I.D., Sch. 40, PVC riser pipe to 15 feet.
- 8 inch diameter borehole to 30 feet
- Granusil #2040 sand, 13 to 30 feet.

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

BORING No. B-59/GW-1
SHEET 2 OF 2
FILE No. 55303
Checked By:MMW

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	WELL INSTALLATION DIAGRAM	EQUIPMENT DESCRIPTION	OVM (ppm)
	10	S-12	22-24	24	20	Med. dense, gray f/c SAND and Gravel, moist.			2
23	12								
	12								
24	12								
	12	S-13	24-26	22	30			2 inch I.D., Sch. 40, #10 slot, PVC well screen, 15 to 29.7 feet.	1
25	12								
	10								
26	8								
	8	S-14	26-28	12	10				ND
27	6								
	6								
28	8								
	8	S-15	28-30	16	5				ND
29	6								
	10							Screw on PVC end cap, 29.7 to 30 feet.	
30	10					Bottom of Boring @ 30'			
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									

S - Split Spoon Sample
C - Rock Core Sample

NOTES: 1) Hnu PI- 101 organic vapor meter used to screen soil samples. Meter was calibrated to the equivalent of 60 ppm benezene in air.
2) NWAC = no water at completion.

General Notes:
1) Stratification lines represent approximate boundary between soil types; transitions may be gradual.
2) Water level readings have been made at times and under conditions stated; fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GeoEnvironmental of New York
384 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

BORING No. B-60/GW-2
SHEET 1 OF 2
FILE No. 55303
Checked By: MMW

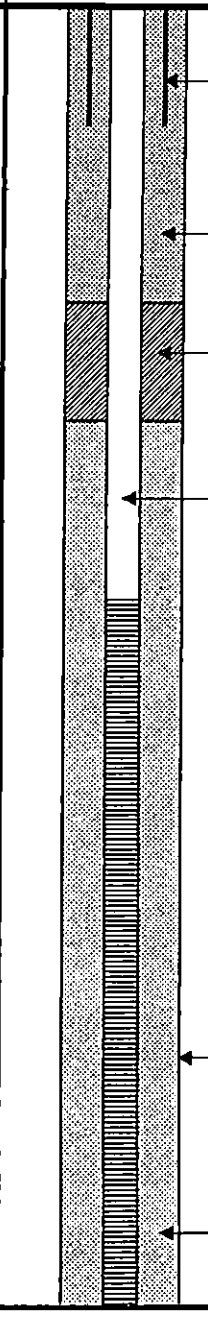
CONTRACTOR	SJB	BORING LOCATION	See Location Plan
DRILLER	Chris Ackley	GROUND SURFACE ELEVATION	N/A DATUM
START DATE: 02/02/1999	END DATE: 02/03/1999	GZA GEOENVIRONMENTAL REPRESENTATIVE	T. Schara

WATER LEVEL DATA

DATE	TIME	WATER	CASING	NOTES
2/3/1999		NWAC	In	

TYPE OF DRILL RIG	CME-85
CASING SIZE AND DIAMETER	4.25" I.D. HSA
OVERBURDEN SAMPLING METHOD	2" O.D. x 24" Split Spoon Sampler
ROCK DRILLING METHOD	N.A.

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	OVM (ppm)
	6	S-1	0-2	57	20	Very dense, brown to dk. gray	7
1	31					f/c SAND, some Gravel,	
	26					trace organics, moist. (FILL)	
2	10						
	12	S-2	2-4	25	30	Grades to:... med. dense.	1
3	12						
	13						
4	14						
	10	S-3	4-6	22	50	Grades to:... gray.	ND
5	10						
	12						
6	11						
	8	S-4	6-8	19	10		ND
7	9						
	10						
8	10						
	25	S-5	8-10	45	80	Grades to:... dense, and Gravel.	2
9	23						
	22						
10	21						
	10	S-6	10-12	28	50	Grades to:... med. dense gray/dk.	2
11	15					gray, some Gravel.	
	13						
12	11						
	11	S-7	12-14	16	20		1
13	8						
	8						
14	9						
	4	S-8	14-16	6	10	Grades to:... loose, tr. Gravel.	ND
15	3						
	3						
16	3						
	9	S-9	16-18	50+	10	Grades to:... very dense.	9
17	6						
	50/.4						
18							
	7	S-10	18-20	14	60	Grades to:... med. dense.	19
19	3						
	11						
20	8						
	5	S-11	20-22	14	50		ND
21	7					Med. dense, gray f/c SAND and	
	7					Gravel, moist.	
22	8						

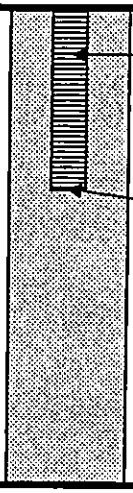


WELL INSTALLATION DIAGRAM

EQUIPMENT DESCRIPTION

- 4.0 inch O.D., square, protective, steel, locking casing, set in grout seal to 2.0 feet.
- Cement/bentonite grout, to 5.0 feet.
- Bentonite chips: 5.0 to 7.0 feet.
- 2 inch I.D., Sch. 40, PVC riser pipe to 10 feet.
- 8 inch diameter borehole to 30 feet
- Granusil #2040 sand, 7.0 to 30.0 feet.

Home Depot
Hauppauge, New York

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	WELL INSTALLATION DIAGRAM	EQUIPMENT DESCRIPTION	OVM (ppm)
	8	S-12	22-24	20	50	Grades to:... some Gravel.		2 inch I.D., Sch. 40, #10 slot, PVC well screen, 10 to 24.7 feet.	ND
23	10								
	10								
24	11								
	4	S-13	24-26	8	30	Grades to:... loose.		Screw on PVC end cap, 24.7 to 25.0 feet.	1
25	4								
	4								
26	4								
	15	S-14	26-28	26	20	Grades to:... med. dense, tr. Gravel.			5
27	15								
	11								
28	14								
	4	S-15	28-30	8	10	Grades to:... loose.			
29	6								
	2								
30	2								
						Bottom of Boring @ 30'			
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

S - Split Spoon Sample
C - Rock Core Sample

NOTES: 1) Hnu PI- 101 organic vapor meter used to screen soil samples. Meter was calibrated to the equivalent of 60 ppm benezene in air.
2) NWAC = no water at completion.

General Notes: 1) Stratification lines represent approximate boundary between soil types; transitions may be gradual.
2) Water level readings have been made at times and under conditions stated; fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

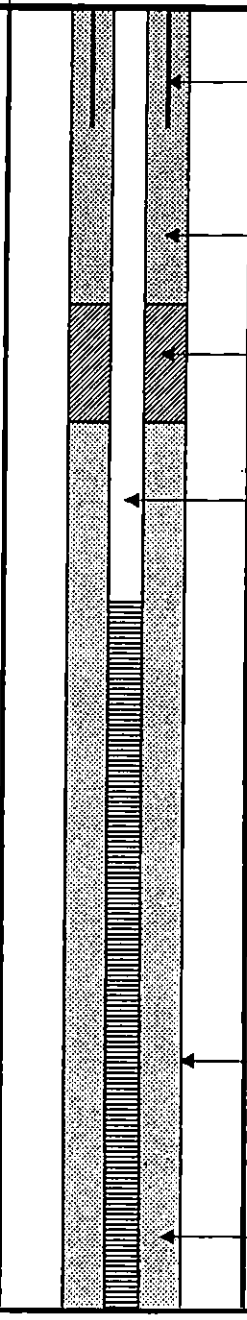
BORING No. B-61/GW-3
SHEET 1 OF 2
FILE No. 55303
Checked By:MMW

CONTRACTOR	SJB	BORING LOCATION	See Location Plan
DRILLER	Chris Ackley	GROUND SURFACE ELEVATION	N/A DATUM
START DATE: 02/03/1999	END DATE: 02/03/1999	GZA GEOENVIRONMENTAL REPRESENTATIVE	T. Schara

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	NOTES
2/3/1999		NWAC	in	

TYPE OF DRILL RIG	CME-85
CASING SIZE AND DIAMETER	4.25" I.D. HSA
OVERBURDEN SAMPLING METHOD	2" O.D. x 24" Split Spoon Sampler
ROCK DRILLING METHOD	N.A.

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	OVM (ppm)
	24	S-1	0-2	58	40	Very dense, brown f/c	ND
1	27					SAND, trace Gravel, trace Plastic,	
	31					trace Glass, moist. (FILL)	
2	26						
	36	S-2	2-4	61	30	Grades to:... gray, some Gravel,	
3	35					trace Organics.	ND
	26						
4	26						
	28	S-3	4-6	61	60		ND
5	25						
	36						
6	46						
	50/.4	S-4	6-6.9	>50	20		ND
7							
8							
	13	S-5	8-10	15	20	Grades to: ....med dense.	1
9	8						
	7						
10	7						
	7	S-6	10-12	18	40		ND
11	13						
	5						
12	6						
	4	S-7	12-14	9	40	Grades to:... loose.	ND
13	4						
	5						
14	7						
	7	S-8	14-16	14	70	Grades to:... med dence dk. gray,	3
15	7					little Organics.	
	7						
16	7						
	7	S-9	16-18	17	50		2
17	10						
	7						
18	6						
	7	S-10	18-20	16	20	Grades to:... gray, trace Gravel.	3
19	9						
	7						
20	8						
	6	S-11	20-22	8	0		
21	4						
	4						
22	6						



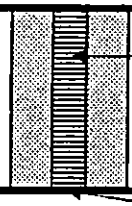
WELL INSTALLATION DIAGRAM

EQUIPMENT DESCRIPTION

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

BORING No. B-61/GW-3
SHEET 2 OF 2
FILE No. 55303
Checked By:MMW

DEPTH	SAMPLE BLOWS (/6")	SAMPLE NO.	SAMPLE DEPTH (FT)	SAMPLE N-Value RQD%	SAMPLE RECOVERY (%)	SAMPLE DESCRIPTION	WELL INSTALLATION DIAGRAM	EQUIPMENT DESCRIPTION	OVM (ppm)
23	7	S-12	22-24	15	0			2 inch I.D., Sch. 40, #10 slot, PVC well screen, 10 to 24.4 feet.	
	8								
	7								
24	6								
	4	S-13	24-25	7	0				
25	7							Screw on PVC end cap, 24.4 to 24.9 feet.	
26						Bottom of Boring @ 24.9'			
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

S - Split Spoon Sample
C - Rock Core Sample

NOTES: 1) Hnu PI- 101 organic vapor meter used to screen soil samples. Meter was calibrated to the equivalent of 60 ppm benezene in air.
2) NWAC = no water at completion.

General Notes:
1) Stratification lines represent approximate boundary between soil types; transitions may be gradual.
2) Water level readings have been made at times and under conditions stated; fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

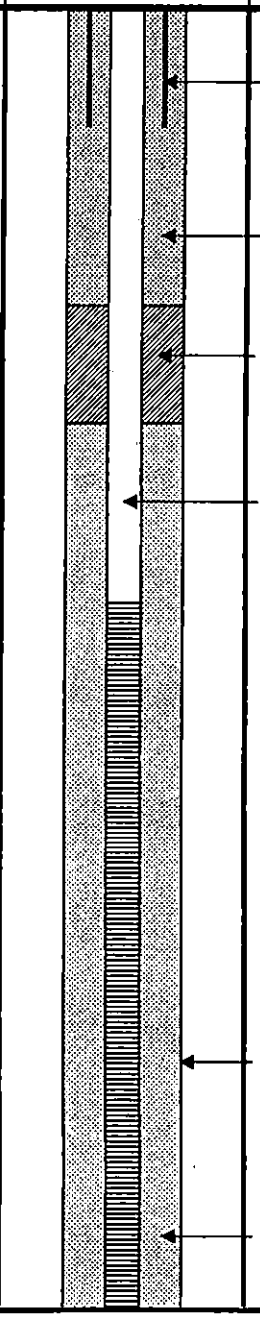
BORING No. B-62/GW-4
SHEET 1 OF 2
FILE No. 55303
Checked By:MMW

CONTRACTOR	SJB	BORING LOCATION	See Location Plan
DRILLER	Chris Ackley	GROUND SURFACE ELEVATION	N/A DATUM
START DATE: 02/03/1999	END DATE: 02/03/1999	GZA GEOENVIRONMENTAL REPRESENTATIVE	T. Schara

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	NOTES
2/3/1999		NWAC	in	

TYPE OF DRILL RIG	CME-85
CASING SIZE AND DIAMETER	4.25" I.D. HSA
OVERBURDEN SAMPLING METHOD	2" O.D. x 24" Split Spoon Sampler
ROCK DRILLING METHOD	N.A.

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	OVM (ppm)
	6	S-1	0-2	15	40	Med. dense, brown f/c	ND
1	8					SAND, some Gravel, moist. (FILL)	
	7						
2	10						
	22	S-2	2-4	42	30	Grades to:... dense	ND
3	22						
	20						
4	22						
	14	S-3	4-6	31	60	Grades to:... and Gravel, trace brick.	ND
5	15						
	16						
6	12						
	14	S-4	6-8	34	90	Grades to:... dk. gray, some	ND
7	14					Gravel.	
	20						
8	24						
	7	S-5	8-10	19	60	Grades to:... med. dense, gray,	ND
9	10					trace Gravel.	
	9						
10	8						
	7	S-6	10-12	27	27	Grades to:... trace Organics.	ND
11	12						
	15						
12	7						
	11	S-7	12-14	22	10		ND
13	11						
	11						
14	11						
	7	S-8	14-16	16	60	Grades to:... dk. gray some concrete.	ND
15	5						
	11						
16	24						
	10	S-9	16-18	22	50		ND
17	12						
	10						
18	36						
	4	S-10	18-20	10	50	Grades to:... trace Paper.	1
19	6						
	4						
20	5						
	7	S-11	20-22	17	30	Med. dense, gray f/c.	ND
21	9					SAND, trace Gravel, moist.	
	8						
22	7						

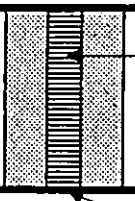


Note: See notes on Page 2

GZA GeoEnvironmental of New York
364 Nagel Drive, Buffalo, New York

Home Depot
Hauppauge, New York

BORING No. B-62/GW-4
SHEET 2 OF 2
FILE No. 55303
Checked By:MMW

DEPTH	SAMPLE BLOWS (/6")	NO.	DEPTH (FT)	N-Value RQD%	RECOVERY (%)	SAMPLE DESCRIPTION	WELL INSTALLATION DIAGRAM	EQUIPMENT DESCRIPTION	OVM (ppm)
	3	S-12	22-24	5	0			2 inch I.D., Sch. 40, #10 slot, PVC well screen, 10 to 24.7 feet.	
23	1								
	4								
24	4								
	3	S-13	24-25.2	8	0				
25	8								
								Screw on PVC end cap, 24.7 to 25.2 feet.	
26						Bottom of Boring @ 25.2'			
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

S - Split Spoon Sample
C - Rock Core Sample

NOTES: 1) Hnu PI- 101 organic vapor meter used to screen soil samples. Meter was calibrated to the equivalent of 60 ppm benezene in air.
2) NWAC = no water at completion.

General Notes: 1) Stratification lines represent approximate boundary between soil types; transitions may be gradual.
2) Water level readings have been made at times and under conditions stated; fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-13
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/03/1999
		Weather:	40-45° F, Clear
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Brown f/c SAND and fine to coarse Gravel, moist (FILL).	
2			2'	
3	S-1	2-3'	Brown fine to med. SAND and f/c Gravel. Waste materials consisting of various Wood debris, Plastic, Paper, and Organic material moist, (FILL) intermixed with (approximately 60% soil, 40% waste).	
4	S-2	3-4'		
5				
6			6'	
7			Gray f/c SAND and fine to coarse Gravel, moist.	
8				
9				
10				
11				
12			Bottom of test pit @ 11.5 feet.	
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-14
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/03/1999
		Weather:	40-45° F, Clear
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Brown f/c SAND and fine to coarse Gravel, intermixed with boulder sized (>6") Concrete with rebar, trace Organics, Paper, Glass, and Wood, moist. (approximately 50% soil, 50% waste) (FILL).	
2				
3				
4				
5	S-1	4-5'	5'	
6	S-2	5-6'	Gray f/c SAND and fine to coarse Gravel, trace Brick moist (FILL).	
7				
8				
9			Large concrete slab (approximately 4x6 feet) encountered at 9 feet. 9'	
10			Bottom of test pit @ 9.0 feet.	
11				
12				
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-15
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/03/1999
		Weather:	40-45° F, Clear
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Brown f/c SAND and fine to coarse Gravel, intermixed with boulder sized (>6") Concrete with rebar, trace of Wood debris, trace Brick moist. (approximately 50% soil, 50% waste) (FILL).	
2				
3				
4				
			4.5'	
5	S-1	4-6'	Gray f/c SAND and fine to coarse Gravel, some boulder sized (>6") Concrete with rebar, Wood debris, trace Bricks moist. (approximately 30% soil, 70% waste) (FILL)	
6				
7				
8				
9				
			9'	
10	S-2	9-11'	Gray f/cSAND and fine to cobble sized (3-6") Gravel, moist.	
11				
12				
			12'	
13			Bottom of test pit @ 12.0 feet.	
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-16
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/03/1999
		Weather:	40-45° F, Clear
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Brown f/cSAND and fine to coarse Gravel, intermixed with of trace Wood Debris. trace Brick moist.(approximately 80% soil 20% waste) (FILL).	
2				
3			2.5' Gray f/c SAND and fine to coarse Gravel, some boulder sized (>6") Concrete with rebar,little Wood debris, little Brick moist. (approximately 30% soil 70% waste) (FILL).	
4				
5				
6			6' Gray f/c SAND and fine to cobble sized Gravel, some Scrap Metal some Wood Debris, little Brick,moist (approximately 20% soil and 80% waste) (FILL).	
7				
8				
9				
10	S-1	10'	Large metal object (possible radiator) excavated from test pit @ 10'.	
11	S-2	11-13'		
12				
13				
14				
15			14.5' Bottom of test pit @ 14.5 feet.	

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected	O_2 - Not detected	OVM - Not detected
LEL - Not detected	H_2S - Not detected	

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-17
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/03/1999
		Weather:	40-45° F, Clear
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Wood, Scrap Metal, and Tires noted on surface.	
2	S-1	2-3'	Brown f/c SAND and fine to coarse Gravel, intermixed with boulder sized (>6") Concrete with rebar, trace Brick, moist. (approximately 80% soil 20% waste) (FILL).	
3				
4				
5				
6			6'	
7	S-2	6-7'	Gray fi/cSAND and fine to coarse Gravel, some boulder sized (>6") Concrete. (approximately 70% soil 30% waste) (FILL).	
8				
9				
10				
11				
12			12'	
13			Bottom of test pit @ 12.0 feet.	
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-18
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1	No samples taken		Brown f/c SAND and fine to cobble sized (3-6") Gravel.	
2				
3				
4				
5				
6				
7				
8				
9			9'	
10			Bottom of test pit @ 9.0 feet.	
11				
12				
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-19
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Wood and Paper Debris, Scrap Metal, and Tires noted on surface.	
2	S-1	2-3'	Gray/black/brown f/c SAND and fine to coarse Gravel inter-mixed with Paper, Scrap Metal, Wood Debris, and Plastic, moist. (approximately10% soil and 90% waste) (FILL).	
3				
4				
5				
6			6'	
7	S-2	6-7'	Gray and black f/c SAND and fine to coarse Gravel, intermixed with boulder sized (>6") Concrete, Wood Debris and Bricks moist. (approximately40% soil and 60% waste) (FILL)	
8				
9				
10			10'	
11			Gray f/c SAND and fine to cobble sized (3-6") Gravel, moist.	
12				
13				
14			Bottom of test pit @ 13.5 feet.	

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - 3%	O_2 - 17.4	OVM - Not detected
LEL - Over	H_2S - Not detected	

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-20
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1			Brown f/c SAND and fine to coarse Gravel, moist.	
			1.5'	
2	S-1	2-3'	Gray f/c SAND and fine to course Gravel, intermixed with	
			Waste materials consisting of various Wood Debris, Brick, and boulder	
3	S-2	3-4'	sized(>6") Concrete moist (approximately 60% soil and 40% waste) (FILL).	
4			Wood debris appears to be burnt @ 3'	
			4'	
5			Brown Wood Debris, some f/c SAND, some fine to course Gravel, moist	
			(approximately 10% soil and 90% waste) (FILL).	
6				
7				
8				
			8'	
9			Gray f/c SAND and fine to coarse Gravel, trace Wood	
			Debris, trace Bricks moist. (approximately 90% soil and 10% waste) (FILL).	
10				
11				
			11'	
12			Gray f/c SAND and fine to coarse Gravel, moist.	
13				
14			Bottom of test pit @ 13.0 feet.	

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-21
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1	No samples taken		Brown f/c SAND and fine to cobble sized (3-6") Gravel.	
2				
3				
4				
5				
6				
7				
8				
9			Bottom of test pit @ 8.0 feet.	
10				
11				
12				
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-22
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1	No samples taken		Wood Debris, Paper, Scrap Metal, and Tires noticed on surface.	
2			Brown f/c SAND and fine to cobble sized (3-6") Gravel.	
3				
4				
5				
6				
7				
8				
9				
10				
11			Bottom of test pit @ 10.0 feet.	
12				
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected O_2 - Not detected OVM - Not detected

LEL - Not detected H_2S - Not detected

TEST PIT FIELD LOG

Project Description:	Proposed Home Depot	Test Pit No:	TP-23
Project location:	Hauppauge, New York	Location:	See Figure 3
GZA Representative:	Todd D. Schara	File No:	55303
Contractor:	SJB Services, Inc.	Date:	02/04/1999
		Weather:	35-40° F, Overcast-Rain
Operator:	Jim Lamb	Ground elev.:	N/A
Make: Kobelco	Model: TLK 760		

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
1	No samples taken		Wood debris and boulder sized (>6") Concrete noticed on surface.	
2			Brown f/c SAND and fine to cobble sized (3-6") Gravel, moist.	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12			Bottom of test pit @ 11.5 feet.	
13				
14				

REMARKS: The air space above the soils was screened with a ATX 620 multi-gas meter and a organic vapor meter (OVM) as the soils were excavated from the test pit.

ATX 620 multi-gas and OVM meter readings

CH_4 - Not detected | O_2 - Not detected | OVM - Not detected

LEL - Not detected | H_2S - Not detected

APPENDIX C

ANALYTICAL TEST RESULTS

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1731
Client Job Site:	Proposed Home Depot Hauppauge, Long Island		
Client Job No.:	55303	**Sample Type:**	Soil
		Date Sampled:	02/03/99
Field Location:	TP-13, S-1	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 8.3
Benzene	ND< 8.3
Toluene	ND< 8.3
Ethylbenzene	ND< 8.3
m,p-Xylene	ND< 8.3
o-Xylene	ND< 8.3
Isopropylbenzene	ND< 8.3
n-Propylbenzene	ND< 8.3
1,3,5-Trimethylbenzene	ND< 8.3
tert-Butylbenzene	ND< 8.3
1,2,4-Trimethylbenzene	ND< 8.3
sec-Butylbenzene	ND< 8.3
p-Isopropyltoluene	ND< 8.3
n-Butylbenzene	ND< 8.3
Naphthalene	ND< 20.8

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1733
Client Job Site:	Proposed Home Depot Hauppauge, Long Island		
Client Job No.:	55303	**Sample Type:**	Soil
		Date Sampled:	02/03/99
Field Location:	TP-14, S-1	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 10.2
Benzene	ND< 10.2
Toluene	ND< 10.2
Ethylbenzene	ND< 10.2
m,p-Xylene	ND< 10.2
o-Xylene	ND< 10.2
Isopropylbenzene	ND< 10.2
n-Propylbenzene	ND< 10.2
1,3,5-Trimethylbenzene	ND< 10.2
tert-Butylbenzene	ND< 10.2
1,2,4-Trimethylbenzene	ND< 10.2
sec-Butylbenzene	ND< 10.2
p-Isopropyltoluene	ND< 10.2
n-Butylbenzene	ND< 10.2
Naphthalene	ND< 25.5

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1735
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/03/99
Field Location:	TP-16, S-1	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 10.1
Benzene	ND< 10.1
Toluene	ND< 10.1
Ethylbenzene	ND< 10.1
m,p-Xylene	ND< 10.1
o-Xylene	ND< 10.1
Isopropylbenzene	ND< 10.1
n-Propylbenzene	ND< 10.1
1,3,5-Trimethylbenzene	ND< 10.1
tert-Butylbenzene	ND< 10.1
1,2,4-Trimethylbenzene	ND< 10.1
sec-Butylbenzene	ND< 10.1
p-Isopropyltoluene	ND< 10.1
n-Butylbenzene	ND< 10.1
Naphthalene	ND< 25.4

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1737
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/04/99
Field Location:	TP-19, S-1	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 10.1
Benzene	ND< 10.1
Toluene	ND< 10.1
Ethylbenzene	72.7
m,p-Xylene	116.6
o-Xylene	ND< 10.1
Isopropylbenzene	11.9
n-Propylbenzene	19.5
1,3,5-Trimethylbenzene	66.3
tert-Butylbenzene	ND< 10.1
1,2,4-Trimethylbenzene	137.1
sec-Butylbenzene	ND< 10.1
p-Isopropyltoluene	25.4
n-Butylbenzene	ND< 10.1
Naphthalene	110.9

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1739
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303	**Date Sampled:**	02/04/99
Field Location:	TP-20, S-1	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 9.3
Benzene	ND< 9.3
Toluene	ND< 9.3
Ethylbenzene	ND< 9.3
m,p-Xylene	10.0
o-Xylene	ND< 9.3
Isopropylbenzene	ND< 9.3
n-Propylbenzene	ND< 9.3
1,3,5-Trimethylbenzene	ND< 9.3
tert-Butylbenzene	ND< 9.3
1,2,4-Trimethylbenzene	20.8
sec-Butylbenzene	ND< 9.3
p-Isopropyltoluene	ND< 9.3
n-Butylbenzene	ND< 9.3
Naphthalene	42.9

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1741
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/04/99
Field Location:	B-60, S-10	**Date Received:**	02/09/99
Field ID No.:	N/A	**Date Analyzed:**	02/13/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 9.3
Benzene	ND< 9.3
Toluene	ND< 9.3
Ethylbenzene	ND< 9.3
m,p-Xylene	ND< 9.3
o-Xylene	ND< 9.3
Isopropylbenzene	ND< 9.3
n-Propylbenzene	ND< 9.3
1,3,5-Trimethylbenzene	ND< 9.3
tert-Butylbenzene	ND< 9.3
1,2,4-Trimethylbenzene	ND< 9.3
sec-Butylbenzene	ND< 9.3
p-Isopropyltoluene	ND< 9.3
n-Butylbenzene	ND< 9.3
Naphthalene	ND< 23.3

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental
Client Job Site: Proposed Home Depot Hauppage, Long Island
Client Job No.: 55303
Field Location: TP-13, S-1
Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1731
Sample Type: Soil
Date Sampled: 02/03/99
Date Received: 02/09/99
Date Analyzed: 02/16/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 310
Acenaphthene	ND< 310
Fluorene	ND< 310
Fluoranthene	671
Anthracene	ND< 310
Phenanthrene	456
Benzo (a) anthracene	ND< 310
Chrysene	317
Pyrene	669
Benzo (b) fluoranthene	ND< 310
Benzo (k) fluoranthene	ND< 310
Benzo (g,h,i) perylene	ND< 310
Benzo (a) pyrene	ND< 310
Dibenz (a,h) anthracene	ND< 310
Indeno (1,2,3-cd) pyrene	ND< 310

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental
Client Job Site: Proposed Home Depot Hauppage, Long Island
Client Job No.: 55303
Field Location: TP-14, S-1
Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1733
Sample Type: Soil
Date Sampled: 02/03/99
Date Received: 02/09/99
Date Analyzed: 02/16/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 313
Acenaphthene	ND< 313
Fluorene	ND< 313
Fluoranthene	2887
Anthracene	582
Phenanthrene	2725
Benzo (a) anthracene	1266
Chrysene	1490
Pyrene	3272
Benzo (b) fluoranthene	1556
Benzo (k) fluoranthene	1484
Benzo (g,h,i) perylene	ND< 313
Benzo (a) pyrene	1036
Dibenz (a,h) anthracene	ND< 313
Indeno (1,2,3-cd) pyrene	625

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot Hauppage, Long Island
Client Job No.: 55303

Field Location: TP-16, S-1
Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1735

Sample Type: Soil

Date Sampled: 02/03/99
Date Received: 02/09/99
Date Analyzed: 02/16/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 317
Acenaphthene	ND< 317
Fluorene	ND< 317
Fluoranthene	ND< 317
Anthracene	ND< 317
Phenanthrene	ND< 317
Benzo (a) anthracene	ND< 317
Chrysene	ND< 317
Pyrene	ND< 317
Benzo (b) fluoranthene	ND< 317
Benzo (k) fluoranthene	ND< 317
Benzo (g,h,i) perylene	ND< 317
Benzo (a) pyrene	ND< 317
Dibenz (a,h) anthracene	ND< 317
Indeno (1,2,3-cd) pyrene	ND< 317

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppage, Long Island

Client Job No.: 55303

Field Location: TP-19, S-1

Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1737

Sample Type: Soil

Date Sampled: 02/04/99
Date Received: 02/09/99
Date Analyzed: 02/16/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 322
Acenaphthene	ND< 322
Fluorene	ND< 322
Fluoranthene	ND< 322
Anthracene	ND< 322
Phenanthrene	ND< 322
Benzo (a) anthracene	ND< 322
Chrysene	ND< 322
Pyrene	ND< 322
Benzo (b) fluoranthene	ND< 322
Benzo (k) fluoranthene	ND< 322
Benzo (g,h,i) perylene	ND< 322
Benzo (a) pyrene	ND< 322
Dibenz (a,h) anthracene	ND< 322
Indeno (1,2,3-cd) pyrene	ND< 322

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental
Client Job Site: Proposed Home Depot Hauppage, Long Island
Client Job No.: 55303
Field Location: TP-20, S-1
Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1739
Sample Type: Soil
Date Sampled: 02/04/99
Date Received: 02/09/99
Date Analyzed: 02/16/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 294
Acenaphthene	ND< 294
Fluorene	ND< 294
Fluoranthene	1212
Anthracene	419
Phenanthrene	1290
Benzo (a) anthracene	596
Chrysene	702
Pyrene	1443
Benzo (b) fluoranthene	516
Benzo (k) fluoranthene	617
Benzo (g,h,i) perylene	ND< 294
Benzo (a) pyrene	348
Dibenz (a,h) anthracene	ND< 294
Indeno (1,2,3-cd) pyrene	ND< 294

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppage, Long Island

Client Job No.: 55303

Field Location: B-60, S-10

Field ID No.: N/A

Lab Project No. 99-0233
Lab Sample No. 1741

Sample Type: Soil

Date Sampled: 02/04/99
Date Received: 02/09/99
Date Analyzed: 02/17/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 323
Acenaphthene	ND< 323
Fluorene	ND< 323
Fluoranthene	ND< 323
Anthracene	ND< 323
Phenanthrene	ND< 323
Benzo (a) anthracene	ND< 323
Chrysene	ND< 323
Pyrene	ND< 323
Benzo (b) fluoranthene	ND< 323
Benzo (k) fluoranthene	ND< 323
Benzo (g,h,i) perylene	ND< 323
Benzo (a) pyrene	ND< 323
Dibenz (a,h) anthracene	ND< 323
Indeno (1,2,3-cd) pyrene	ND< 323

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990233S6.XLS

PARADIGM Environmental Services, Inc. 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-13, S2

Field ID No.: N/A

Lab Project No.: 99-0233
Lab Sample No.: 1732

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Cadmium	2/11/99	SW846 6010	1.34
Chromium	2/11/99	SW846 6010	6.62
Copper	2/16/99	SW846 6010	9.02
Mercury*	2/11/99	SW846 7471	0.11
Nickel	2/16/99	SW846 6010	6.34
Lead	2/11/99	SW846 6010	49.8
Potassium*	2/16/99	SW846 6010	454
Zinc	2/16/99	SW846 6010	48.9

ELAP ID No.:10958
*ELAP ID No.:10709

Comments:

Approved By: _____
Laboratory Director

File ID: 990233p1.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-14, S2
Field ID No.: N/A

Lab Project No.: 99-0233
Lab Sample No.: 1734

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Cadmium	2/11/99	SW846 6010	3.74
Chromium	2/11/99	SW846 6010	15.1
Copper	2/16/99	SW846 6010	47.7
Mercury*	2/11/99	SW846 7471	0.19
Nickel	2/16/99	SW846 6010	35.5
Lead	2/11/99	SW846 6010	130
Potassium*	2/16/99	SW846 6010	537
Zinc	2/16/99	SW846 6010	146

ELAP ID No.:10958
*ELAP ID No.:10709

Comments:

Approved By: _____
Laboratory Director

File ID: 990233p2.XLS

PARADIGM Environmental Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-16, S2

Field ID No.: N/A

Lab Project No.: 99-0233
Lab Sample No.: 1736

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Cadmium	2/11/99	SW846 6010	1.50
Chromium	2/11/99	SW846 6010	9.71
Copper	2/16/99	SW846 6010	17.3
Mercury*	2/11/99	SW846 7471	0.10
Nickel	2/16/99	SW846 6010	7.06
Lead	2/11/99	SW846 6010	78.4
Potassium*	2/16/99	SW846 6010	399
Zinc	2/16/99	SW846 6010	159

ELAP ID No.:10958
*ELAP ID No.:10709

Comments:

Approved By: _____
Laboratory Director

File ID: 990233p3.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-19, S2
Field ID No.: N/A

Lab Project No.: 99-0233
Lab Sample No.: 1738

Sample Type: Soil

Date Sampled: 2/4/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Cadmium	2/11/99	SW846 6010	1.45
Chromium	2/11/99	SW846 6010	6.56
Copper	2/16/99	SW846 6010	6.86
Mercury*	2/11/99	SW846 7471	0.04
Nickel	2/16/99	SW846 6010	6.48
Lead	2/11/99	SW846 6010	31.5
Potassium*	2/16/99	SW846 6010	232
Zinc	2/16/99	SW846 6010	38.1

ELAP ID No.:10958
*ELAP ID No.:10709

Comments:

Approved By: _____
Laboratory Director

File ID: 990233p4.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-20, S2
Field ID No.: N/A

Lab Project No.: 99-0233
Lab Sample No.: 1740

Sample Type: Soil

Date Sampled: 2/4/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Cadmium	2/11/99	SW846 6010	<0.956
Chromium	2/11/99	SW846 6010	3.25
Copper	2/16/99	SW846 6010	2.87
Mercury*	2/11/99	SW846 7471	<0.02
Nickel	2/16/99	SW846 6010	<4.78
Lead	2/11/99	SW846 6010	22.4
Potassium*	2/16/99	SW846 6010	214
Zinc	2/16/99	SW846 6010	24.0

ELAP ID No.:10958
*ELAP ID No.:10709

Comments:

Approved By: _____
Laboratory Director

File ID: 990233p5.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-13
Field ID No.: S-2

Lab Project No.: 99-0233
Lab Sample No.: 1732

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result
Total Solids	2/16/99	ASTM-D3987-85	91.6%
Total Volatile Solids	2/17/99	EPA 160.4	2.0%
Nitrate-N	2/17/99	EPA 9200	ND<0.4 mg/kg
Nitrite-N	2/10/99	EPA 353.2	ND<0.4 mg/kg
Ammonia-N	2/16/99	EPA 350.3	16 mg/kg
Total Kjeldahl Nitrogen-N	2/12/99	EPA 9060	324 mg/kg
T-Phosphorus	2/9/99	EPA 365.2	1.6 mg/kg

ELAP ID. No.:10709

Comments: ND denotes Non Detected

Approved By: _____
Laboratory Director

File ID: 99-0233VAR

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-14
Field ID No.: S-2

Lab Project No.: 99-0233
Lab Sample No.: 1734

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result
Total Solids	2/16/99	ASTM-D3987-85	92.4%
Total Volatile Solids	2/17/99	EPA 160.4	2.9%
Nitrate-N	2/17/99	EPA 9200	ND<0.4 mg/kg
Nitrite-N	2/10/99	EPA 353.2	ND<0.4 mg/kg
Ammonia-N	2/16/99	EPA 350.3	120 mg/kg
Total Kjeldahl Nitrogen-N	2/12/99	EPA 9060	487 mg/kg
T-Phosphorus	2/9/99	EPA 365.2	2.6 mg/kg

ELAP ID. No.:10709

Comments: ND denotes Non Detected

Approved By: _____
Laboratory Director

File ID: 99-0233VAR-2

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-16
Field ID No.: S-2

Lab Project No.: 99-0233
Lab Sample No.: 1736

Sample Type: Soil

Date Sampled: 2/3/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result
Total Solids	2/16/99	ASTM-D3987-85	92.2%
Total Volatile Solids	2/17/99	EPA 160.4	2.7%
Nitrate-N	2/17/99	EPA 9200	ND<0.4 mg/kg
Nitrite-N	2/10/99	EPA 353.2	ND<0.4 mg/kg
Ammonia-N	2/16/99	EPA 350.3	70 mg/kg
Total Kjeldahl Nitrogen-N	2/12/99	EPA 9060	211 mg/kg
T-Phosphorus	2/9/99	EPA 365.2	1.7 mg/kg

ELAP ID. No.:10709

Comments: ND denotes Non Detected

Approved By: _____
Laboratory Director

File ID: 99-0233VAR-3

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-19
Field ID No.: S-2

Lab Project No.: 99-0233
Lab Sample No.: 1738

Sample Type: Soil

Date Sampled: 2/4/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result
Total Solids	2/16/99	ASTM-D3987-85	89.8%
Total Volatile Solids	2/17/99	EPA 160.4	ND<1%
Nitrate-N	2/17/99	EPA 9200	ND<0.4 mg/kg
Nitrite-N	2/10/99	EPA 353.2	ND<0.4 mg/kg
Ammonia-N	2/16/99	EPA 350.3	23 mg/kg
Total Kjeldahl Nitrogen-N	2/12/99	EPA 9060	373 mg/kg
T-Phosphorus	2/9/99	EPA 365.2	1.5 mg/kg

ELAP ID. No.:10709

Comments: ND denotes Non Detected

Approved By: _____
Laboratory Director

File ID: 99-0233VAR-4

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA Geo Environmental

Client Job Site: Proposed Home Depot
Hauppauge, Long Island

Client Job No.: 55303

Field Location: TP-20
Field ID No.: S-2

Lab Project No.: 99-0233
Lab Sample No.: 1740

Sample Type: Soil

Date Sampled: 2/4/99
Date Received: 2/9/99

Parameter	Date Analyzed	Analytical Method	Result
Total Solids	2/16/99	ASTM-D3987-85	96.1%
Total Volatile Solids	2/17/99	EPA 160.4	ND<1%
Nitrate-N	2/17/99	EPA 9200	ND<0.4 mg/kg
Nitrite-N	2/10/99	EPA 353.2	ND<0.4 mg/kg
Ammonia-N	2/16/99	EPA 350.3	4 mg/kg
Total Kjeldahl Nitrogen-N	2/12/99	EPA 9060	104 mg/kg
T-Phosphorus	2/9/99	EPA 365.2	6.5 mg/kg

ELAP ID. No.:10709

Comments: ND denotes Non Detected

Approved By: _____
Laboratory Director

File ID: 99-0233VAR-5

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Soil/Sludge

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1732
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/03/99
Field Location:	TP-13, S-2	**Date Received:**	02/09/99
Field ID No:	N/A	**Date Analyzed:**	02/13/99

Polychlorinated Biphenyl	Result (mg/Kg)	Reporting Limit (mg/Kg)
PCB 1016	ND	0.45
PCB 1221	ND	0.45
PCB 1232	ND	0.45
PCB 1242	ND	0.45
PCB 1248	ND	0.45
PCB 1254	ND	0.45
PCB 1260	ND	0.45

Analytical Method: EPA 8080 ELAP ID No.: 10958

Comments:
ND denotes Not Detected.

Approved By: _____
Laboratory Director

File ID: 90233P1.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Soil/Sludge

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1734
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/03/99
Field Location:	TP-14, S-2	**Date Received:**	02/09/99
Field ID No:	N/A	**Date Analyzed:**	02/13/99

Polychlorinated Biphenyl	Result (mg/Kg)	Reporting Limit (mg/Kg)
PCB 1016	ND	0.42
PCB 1221	ND	0.42
PCB 1232	ND	0.42
PCB 1242	ND	0.42
PCB 1248	ND	0.42
PCB 1254	ND	0.42
PCB 1260	ND	0.42

Analytical Method: EPA 8080 ELAP ID No.: 10958

Comments:
ND denotes Not Detected.

Approved By: _____
Laboratory Director

File ID: 90233P2.XLS

PARADIGM
Environmental Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Soil/Sludge

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1736
Client Job Site:	Proposed Home Depot Hauppauge, Long Island		
Client Job No.:	55303	**Sample Type:**	Soil
		Date Sampled:	02/03/99
Field Location:	TP-16, S-2	**Date Received:**	02/09/99
Field ID No:	N/A	**Date Analyzed:**	02/13/99

Polychlorinated Biphenyl	Result (mg/Kg)	Reporting Limit (mg/Kg)
PCB 1016	ND	0.42
PCB 1221	ND	0.42
PCB 1232	ND	0.42
PCB 1242	ND	0.42
PCB 1248	ND	0.42
PCB 1254	ND	0.42
PCB 1260	ND	0.42

Analytical Method: EPA 8080 ELAP ID No.: 10958

Comments:
ND denotes Not Detected.

Approved By: _____
Laboratory Director

File ID: 90233P3.XLS

PARADIGM
Environmental Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Soil/Sludge

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1738
Client Job Site:	Proposed Home Depot Hauppauge, Long Island		
Client Job No.:	55303	**Sample Type:**	Soil
		Date Sampled:	02/04/99
Field Location:	TP-19, S-2	**Date Received:**	02/09/99
Field ID No:	N/A	**Date Analyzed:**	02/13/99

Polychlorinated Biphenyl	Result (mg/Kg)	Reporting Limit (mg/Kg)
PCB 1016	ND	0.51
PCB 1221	ND	0.51
PCB 1232	ND	0.51
PCB 1242	ND	0.51
PCB 1248	ND	0.51
PCB 1254	ND	0.51
PCB 1260	ND	0.51

Analytical Method: EPA 8080 ELAP ID No.: 10958

Comments:
ND denotes Not Detected.

Approved By: _____
Laboratory Director

File ID: 90233P4.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Soil/Sludge

Client:	GZA GeoEnvironmental	**Lab Project No.:**	99-0233
		Lab Sample No.:	1740
Client Job Site:	Proposed Home Depot Hauppauge, Long Island	**Sample Type:**	Soil
Client Job No.:	55303		
		Date Sampled:	02/04/99
Field Location:	TP-20, S-2	**Date Received:**	02/09/99
Field ID No:	N/A	**Date Analyzed:**	02/13/99

Polychlorinated Biphenyl	Result (mg/Kg)	Reporting Limit (mg/Kg)
PCB 1016	ND	0.46
PCB 1221	ND	0.46
PCB 1232	ND	0.46
PCB 1242	ND	0.46
PCB 1248	ND	0.46
PCB 1254	ND	0.46
PCB 1260	ND	0.46

Analytical Method: EPA 8080 ELAP ID No.: 10958

Comments:
ND denotes Not Detected.

Approved By: _____
Laboratory Director

File ID: 90233P5.XLS

PARADIGM Environmental Services, Inc. 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: GZA GeoEnvironmental

Client Job Site: Proposed Home Depot Hauppauge, Long Island

Client Job No.: 55303

Lab Project No.: 99-0233

Sample Type: Soil

Method: EPA 9045

Date(s) Sampled: 2/3/99-2/4/99

Date Received: 2/9/99

Date Analyzed: 2/11/99

Lab Sample No.	Field ID No.	Field Location	pH Results
1732	N/A	TP-13, S2	7.68
1734	N/A	TP-14, S2	7.47
1736	N/A	TP-16, S2	7.94
1738	N/A	TP-19, S2	7.70
1740	N/A	TP-20, S2	7.64

ELAP ID No.: 10958

Comments:

Approved By: _____
Laboratory Director

File ID: 990233ph.xls

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 • (800) 724-1997
FAX (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	LAB PROJECT # 99-0233
COMPANY GZA Geo Environmental	COMPANY	
ADDRESS 364 Nagel Dr.	ADDRESS	
CITY Buffalo STATE N.Y. ZIP 14225	CITY STATE ZIP	P.O. #
ATT. Ernie Hanna PHONE# 716-685-2300	ATT. PHONE#	
FAX# 716-685-3629	FAX#	☐ ADDENDUM

PROJECT NAME/SITE NAME: Proposed Homeport Hauppauge, Long Island
PROJECT #: 55303

COMMENTS: Leachate Parameters (Routine Parameters) - 6 NYCRR Part 360 Solid Waste Management Facilities

TURN AROUND TIME (WORKING DAYS) ☐ ONE ☐ THREE ☒ FIVE(STD) ☐ OTHER ______

REPRESENTATIVE: Todd Schara

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	STARS 8021	STARS 8270	Leachate Indicat.	TKN, NO2, NO3	NH3, T Phos	TK, pH	T. Solids	TVS, Cl, CN	Cr, Hg, Nickel	Lead, Zn, PCB			REMARKS	PARADIGM LAB SAMPLE NUMBER	ANALYTICAL COSTS
1	2-3-99	1045	X		TP-13, S-1	Soil	1	X	X												1731	
2	2-3-99	1045	X		TP-13, S-2	Soil	1			X										See Comments	1732	
3	2-3-99	1200	X		TP-14, S-1	Soil	1	X	X												1733	
4	2-3-99	1200	X		TP-14, S-2	Soil	1			X										See Comments	1734	
5	2-3-99	1445	X		TP-16, S-1	Soil	1	X	X												1735	
6	2-3-99	1445	X		TP-16, S-2	Soil	1			X										See Comments	1736	
7	2-4-99	0910	X		TP-19, ~~S-2~~ S-1	Soil	1	X	X												1737	
8	2-4-99	0910	X		TP-19, S-2	Soil	1			X										See Comments	1738	
9	2-4-99	1000	X		TP-20, S-1	Soil	1	X	X												1739	
10	2-4-99	1000	X		TP-20, S-2	Soil	1			X										See Comments	1740	
11	2-3-99	—	X		B-60, S-10	Soil	1	X	X												1741	
12																						

RELINQUISHED BY: Todd Schara	DATE/TIME 2-5-99	RECEIVED BY:	DATE/TIME	SAMPLE CONDITION	CHECK #	TOTAL COST
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	CARRIER COMPANY	AIR BILL NO.	P.I.F
RELINQUISHED BY:	DATE/TIME	RECEIVED @ LAB BY: [signature]	DATE/TIME 2/8/99	CARRIER PHONE #	DATE RESULTS REPORTED BY:	DATE/TIME

WHITE COPY-SAMPLE YELLOW COPY-FILE PINK COPY-RELINQUISHER