January 20, 2005 File No.: 911-007

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JAN 31 2013

Mr. Dwight Douglas Village Administrator Village Hall 28 Beekman Avenue Sleepy Hollow, New York 10591 Remedial Bureau C
Div of Environmental Remediation

Re:

FINDINGS REPORT: Shallow Soil Sampling

Barnhart Park

Sleepy Hollow, New York

Dear Mr. Douglas:

Attached is a letter report that summarizes Lawler, Matusky & Skelly Engineers LLP (LMS') findings of the shallow soil sampling conducted at Barnhart Park in the Village of Sleepy Hollow in December 2004. As requested, I am also forwarding a copy of this report to the contact at Duracell, Inc.

Should you have any questions on the report, please do not hesitate to contact me at 845-735-8300 ext. 261 (mobile: 845-304-9639).

Sincerely,

Michael P. Musso P.E Senior Project Engineer

Michael Musso/gl

Attachment

cc: Victor Miles (Duracell)

January 20, 2005 File No.: 911-007

Mr. Dwight Douglas Village Administrator Village Hall 28 Beekman Avenue Sleepy Hollow, New York 10591

Re: FINDINGS REPORT: Shallow Soil Sampling Barnhart Park Sleepy Hollow, New York

Dear Mr. Douglas:

Lawler, Matusky & Skelly Engineers LLP (LMS) is pleased to present the findings of the soil sampling conducted at Barnhart Park on December 8 and 9, 2004. A site location map is provided as Figure 1, and a site plan is provided as Figure 2.

Plans for site development include the construction of a parking lot and enhancements to the existing park. Although remediation under NYSDEC was previously conducted at the site, the potential of residual soil contamination may still exist and be encountered during site development efforts. Thus, pre-construction sampling was conducted to evaluate residual contamination and assist with Contractor health and safety planning, assess soil disposal and soil management options, and identify needs for additional remediation (if warranted).

Soil Sampling

Prior to the commencement of field activities, LMS requested a utility markout of the site by contacting the local utility clearance hotline. LMS mobilized to the site on December 8, 2004 to conduct the soil sampling. A total of 43 shallow soil probes were installed (designated as P-1 through P-16 on the lot east of Andrews Lane that formerly housed the Duracell facility building, and B-1 through B-27 at locations west of Andrews Lane). All LMS sampling locations are shown on Figure 2. A few borings were relocated from their original location due to refusal and/or poor soil recovery. The soil probes were advanced utilizing direct push/probe drilling methods and tools. The probe sampling methods employed created 2-in. diameter holes with minimal disturbance to the surrounding ground surface. Each probe location was advanced to a depth of 3-ft below grade (or greater), and soils from each location were recovered in dedicated acetate liners. Sample materials were classified visually by an on-site LMS technician. Field information was recorded on boring logs that are included as Attachment A of this letter report. The geological descriptions include color, material type and composition, relative grain size and

Barnhart Park Soil Investigation January 20, 2005 Page 2 of 4

distribution, presence of free moisture, evidence of possible contamination, photoionization detector (PID) readings, and any other distinctive observations.

Soil samples from 21 probe locations were submitted to Mitkem Labs (Mitkem) of Warwick. Rhode Island, a NYSDOH-certified laboratory, for analyses. Soil samples were collected at probe locations across the site, targeting the former Duracell building/facility location (i.e., east of Andrews Lane), the former Duracell parking area (west of Andrews Lane), and the park area (west of Andrews Lane). Samples were biased to areas of future soil disturbance (i.e., utility trenching, plantings, comfort station building, playground equipment) based on the layout of a recent Site Plan. A blind duplicate sample was collected at location B-14 (designated as "GP-1 dup").

In the area east of Andrews Lane, soils from eight of the sixteen soil probe locations were submitted to Mitkem for laboratory analysis. In general, soils from below the existing soil cap at this area (i.e., below 1.5 – 2 ft bgs) were targeted for laboratory analysis. Seven of the eight samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and RCRA metals. One sample (P-7) was submitted for additional analyses of semivolatile organic compounds (SVOCs) using EPA method 8270, target analyte list (TAL) metals (i.e., expanded metals parameters list), and pesticides/polychlorinated biphenyls (PCBs).

In the area west of Andrews Lane, soil samples were generally collected from the 0-4 ft target depth interval. Of the 27 borings collected west of Andrews Lane during LMS sampling, thirteen were submitted to Mitkem for analysis. Eleven of the thirteen soil samples were analyzed for VOCs and RCRA metals. Shallow soils from two locations (B-16 and B-20) were submitted for additional analyses of SVOCs, TAL metals, and PCBs/pesticides.

All LMS soil samples were collected in laboratory-supplied containers and labeled with the appropriate sample identification, date and time of sampling, requested analyses, and sampler identification. All downhole sampling equipment was decontaminated between probe locations and prior to leaving the site using cold wash techniques. Following completion of each soil probe, the hole was backfilled to grade using drill cuttings from that location and/or clean sand.

Soil Sample Results

The analytical results from the soil samples were assessed against the NYSDEC recommended soil cleanup objectives (RSCOs) and eastern USA background levels of Technical and Administrative Guidance Memorandum (TAGM) #4046. A summary of the soil data is presented in Table 1. A copy of the full data package from Mitkem, including laboratory methods that were used, is provided in Attachment B (as CD-ROM).

A total of 21 soil samples (plus one blind duplicate sample, and QA/QC samples comprised of a field blank and a trip blank) were submitted to Mitkem for laboratory analysis. Data summaries by analyte category are provided in the following paragraphs.

VOCs

As summarized in Table 1, several VOCs were detected in soil sample P-2, located at the southeast portion of the lot east of Andrews Lane (i.e., in close proximity to the former Duracell facility building; refer to Figure 2). Two compounds, tetrachloroethylene (PCE) and trichloroethylene (TCE) were detected at this location at concentrations (67 mg/kg and 3.1 mg/kg, respectively) that exceeded the TAGM #4046 soil objectives (RSCOs). LMS recorded the highest PID reading (18 ppm above background) at this sample location during the field work (see logs of Attachment A). All of the other VOCs that were detected in this sample were reported at concentrations that were below the RSCO values.

Aside from sample P-2, six VOCs (methylene chloride, chloroform, trichloroethylene, tetrachloroethylene, 2-Butanone, and acetone) were detected in one or more of the other soil samples; however, all concentrations of these compounds were below the respective RSCO in all these samples (see Table 1). Methylene chloride, a common laboratory artifact, was also detected in the QA/QC samples indicating the possibility of minor sample cross-contamination.

SVOCs

Several SVOCs were detected in two of the three samples that were analyzed for SVOCs, P-7 and B-20. In general, relatively low-levels of these compounds (including some polycyclic aromatic hydrocarbons [PAHs]) were reported that are typically associated with fill material and/or urban/semi-urban environments. None of the reported concentrations appear to be indicative of an active contaminant source in the shallow soils. Two SVOCs were detected at concentrations above the RSCOs. Benzo(a)pyrene was detected in sample P-7 at a concentration of 0.18 mg/kg, above the NYSDEC recommended soil cleanup objective of 0.061 mg/kg. Dibenzo(a,h)anthracene was reported at a concentration of 0.042 mg/kg in sample P-7, which exceeded the RSCO of 0.014 mg/kg. Sample B-16 did not have any detectable levels of any SVOCs. Three SVOCs were detected in sample B-20; all concentrations were below the RSCO values in this sample. Table 1 provides a summary of the SVOC sample data.

PCBs/Pesticides

No PCBs or pesticides were detected in any of the soil samples (P-7, B-16, and B-20) submitted for laboratory analysis.

Metals

Several metals were detected in all 21 of the soil samples that were submitted for analysis. Eighteen samples were analyzed for RCRA metals (which includes: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver); the remaining samples (P-7, B-16, and B-20) were analyzed for the expanded list of 23 TAL metals. As shown on Table 1, one or more of the samples had RSCO exceedences of the following metals:

- \circ Beryllium (overall concentration range among all samples analyzed of 0.18-0.26mg/kg)
- \circ Cadmium (1.2 4.6 mg/kg)
- o Chromium (6.6 27.5 mg/kg)
- o Copper (11.4 38.4 mg/kg)
- \circ Iron (8950 11,400 mg/kg)
- o Mercury (0.18 2130 mg/kg)
- o Zinc (44.7 170 mg/kg)

With the exception of mercury, none of these concentrations are believed to be indicative of an active contamination source in the shallow on-site soils (i.e., many of the reported concentrations are below or slightly above the Eastern U.S. soil background levels cited in TAGM #4046). Rather, these levels may be associated with historic fill materials (similar to SVOCs).

Mercury concentrations in the shallow soils exceeded the RSCO criterion (0.1 mg/kg) at all LMS sample locations. All samples except five had mercury concentrations that were above the upper range of the Eastern U.S. soil background level cited in TAGM #4046 (0.2 mg/kg). The mercury concentrations at two locations (P-2 and B-1; shaded on Table 1) are indicative of possible mercury contamination source areas that were not completely addressed during the site remediation activities of the early 1990's. As shown on Figure 2, sample P-2 is located at the southeast portion of the lot east of Andrews Lane (i.e., in close proximity to the former Duracell facility building); sample B-1 is located along the west side of Andrews Lane near the former Duracell employee parking lot. The mercury concentrations reported at samples P-2 and B-1 (2130 mg/kg and 182 mg/kg, respectively) are higher than the NYSDEC sitespecific soil action level that was established during the remediation activities.

Should you have any questions on this findings report, please do not hesitate to contact me at 845-735-8300 ext. 261 (mobile: 845-304-9639).

Sincerely,

Michael P. Musso P.E

Senior Project Engineer

Michael Mussolf

Attachments

TABLE

SOIL DATA SUMMARY VOCs Barnhart Park, Sleepy Hollow, NY

P-1 C1536-03B 12/8/2004 mg/kg	P-2 C1536-04B C 12/8/2004 1 mg/kg Df 10:1	P-4 1535-01B 2/8/2004 mg/kg	P-7 C1535-02B (12/8/2004 mg/kg	P-8 C1535-03B (12/8/2004 mg/kg	P-10 C1535-04B 12/8/2004 mg/kg	P-13 C1535-05B 12/8/2004 mg/kg	P-15 C1535-06B 12/8/2004 mg/kg	B-1 C1535-07B 12/8/2004 mg/kg	B-3 C1535-08B 12/8/2004 mg/kg	B-5 C1535-09B 12/8/2004 mg/kg	B-6 C1535-10B 12/8/2004 mg/kg	RECOMMENDED SOIL CLEANUP OBJECTIVE (a)
s (ma/ka)												
N Q	0 008	0.002	0.002	0.002	0.002 i	0.002	0.002	0.0031	0.002	0.003	0.002	0.1
9	Q	Q	QN	Q	Q	QN	Q	0.001	0.001	0.001	0.001	0.3
Q	0.12	QN	Q	Q	Q	Q	QN	Q	Q	Q	QN	NS
QN	0.002	Q	Q	Q	Q	Q	QN	Q	Q	Q	QN	8.0
0.001	3.1 ₫	0.12	0.025	QN	QN	QN	Q	0.022	0.002 }	Q	QN	0.7
0.003	67 d	0.11	0.01	0.002	QN	0.002	Q	0.003	0.004	0.003	0 004 j	1.4
Q	0.018	QN	Q	Q	QN	QN	Q	Q	Q	Q	Q	9.0
Q	0.002j	Q	QN	Q	Q	Q	2	2	Q	Q	Q	0.4
Q	0.001	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	3.7
Q	0 001 j	Q	QN	QN	Q	Q	Q	Q	Q	Q	Q	33
Q	0.0021	Q	QN	QN	QN	QN	QN	Q	Q	Q	Q	NS
Q	0.002 j	Q	QN	QN	QN	QN	QN	Q	Q	QN	Q	10
Q	0.001	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	10
Q	0.002 j	Q	Q	QN	Q	Q	Q	Q	Q	Q	N	16
Q	0 003 j	Q	2	Q	Q	Q	Q	2	Q	2	Q	8.5
Q	0.002 j	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0
QN	0 003 j	QN	Q	Q	Q	Q	Q	Q	Q	Q	Q N	6.7
QN	0 002 j	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	3.4
QN	0.002	QN	QN	Q	Q	Q	Q	Q	Q	Q	Q	SN
Q	900 0	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NS
Q	0.014	QN	Q	Q	Q	QN	Q	Q	Q	Q	Q	13
Q	Q	Q	Q	2	Q	QN	Q	Q	Q	Q	0.012	03
QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	0.087	0.2
0.004	70.294	0.232	0.027	0.004	0.002	0.004	0.002	0.029	0.00	0.007	960.0	100
	9	I -	0.002 0.002	Differ D	0.002 0.00	0.002 0.00	DF 10:1 DF 1	DF 10:1 DF 10:0 DF 1	DF 10:1 DF 10:0 DF 1	DF 16:1 DF 16:2 DF 1	DF 16:1 DF 16:2 DF 1	DT 10:14 Mg/kg M

W. As per TAGM#4046, Total VOCs < 10 ppn, Total SVOCs < 500 ppm, and Individual SVOCs < 50 ppm.

WYSDEC Technical Administrative Guidance Memorandum (TAGM) 4046, January 1994
Includes additions from NYSDEC memorandum of December 20, 2000

I Estimated concernation

d - indicates that sample was dished
MD - Net detected
Note - Numbers in bold exceed soil clearup objectives
Na - Not applicable

NS - no soil clearup objective

SOIL DATA SUMMARY VOCs Barnhart Park, Sleepy Hollow, NY

LMS Sample ID Lab Sample ID Date Sampled Units	B-9 C1535-13B 12/8/2004 mg/kg	B-11 C1535-14B 12/9/2004 mg/kg	B-12 C1535-15B 12/9/2004 mg/kg	B-13 C1535-16B 12/9/2004 mg/kg	B-14 C1535-17B 12/9/2004 mg/kg	B-16 C1535-19B 12/9/2004 mg/kg	B-20 C1536-02B 12/9/2004 mg/kg	B-23 C1536-01B 12/9/2004 mg/kg	B-27 C1535-20B 12/9/2004 mg/kg	GP-1 (dup) C1535-18B mg/kg	FB C1535-12A 12/9/2004 ug/l	TB C1535-11A 12/9/2004 ug/l	RECOMMENDED SOIL CLEANUP OBJECTIVE (a)
Volatile Organic Compounds (mg/kg)	unds (ma/ka)												
Methylene Chloride	0.003 j	0.003	0.003	0.002	0.002 j	0.003 j	0.002	0.003	0.007	0.003	17	-	0.1
Chloroform	0.001 j	0.001	0.002	0.002	0.003 j	QN	Q	Q	QN	QN	QN	=	03
cis-1,2-Dichloroethene	Q	Q	QN	QN	QN	Q	Q	Q	QN	QN	QN	Ñ	NS
1,1,1-Trichloroethane	Q	Q	QN	Q	Q	Q	Q	Q	Q	Q	QN	QN	0.8
Trichforoethylene	Q	Q	QN	Q	Q	Q	9	Q	Q	2	2	Q	0.7
Tetrachloroethylene	Q	0 002 j	Q	Q	Q	Q	Q	QN	Q	QN	QN	Q	1.4
1,1,2,2-Tetrachloroethane	Q	Q	Q	Q	Q	Q	Q	Q	QN	QN	Q	Q	90
1,2,3-Trichloropropane	Q	Q	Q	Q	Q	Q	Q	Q	QN	QN	Q	Q	0.4
n-Propylbenzene	Q	Q	QN	QN	Q	QN	Q	Q	QN	QN	Q	Q	3.7
1,3,5-Trimethylbenzene	Q	Q	Q	QN	Q	QN	Q	QN	QN	Q	QV	Q	33
4-Chlorotoluene	Q	Q	<u>Q</u>	Q	2	Q	Q	Q	Q	Q	Q	Q	NS
1,2,4-Trimethylbenzene	Q	2	Q	Q	Q	Q	2	Q	QN	Q	2	Q	0
sec-Butylbenzene	Q	Q	Q	QN	Q	QN	Q	QN	Q	Q	Q	Q	10
1,3-Dichlorobenzene	Q	Q	Q	Q	Q	Q	Q	Q	Q	QN	QN	QN	16
1.4-Dichlorobenzene	Q	Q	Q	Q	QN	QN	Q	Q	Q	QN	Q	Q	8.5
n-Butylbenzene	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	10
1.2-Dichlorobenzene	2	Q	Q	Q	2	Q	Q	Q	Q	Q	Q	Q	7.9
1,2,4-Trichlorobenzene	Q	2	2	Q	Q	2	Q	Q	Ω Z	Q	Q	Q	3.4
Hexachlorobuladiene	Q	2	Q	Q	2	Q	Q	Q	QN	Q	Q	Q	NS
1.2,3-Trichlorobenzene	Q	Q	Q	Q	Q	Q	QN	Q	QN	Q	QN	Q	NS
Naphthalene	Q.	Q	Q	Q	Q	Q	Q	QN	QN	Q	QN	Q	13
2-Butanone	Q.	Q	0.053	0.02	0.042	Q	Q	QN	QN	QN	QN	Q	03
Acetone	2	Q	0.13	60.0	0.11	ND	ON	QN	QN	QN	QN	Q	0.2
Total	0.004	9000	0.188	0.114	0.157	0.003	0.002	0.003	0.007	0.003	- 24	2	100

WYSDEC Technical Admirestrative Guidance Memorandum (TAGM) 4046, January 1994
includes additions from INYSDEC memorandum of December 20, 2000
includes additions from INYSDEC memorandum of December 20, 2000
includes additions from INYSDEC memorandum of December 20, 2000
includes that sample was diduced
included that sample was diduced
ND - Not detected
NOs - Numbers in both exceed cleanup objectives
NA - Not applicable
NS - no soil cleanup objective

Barnhart Park, Sleepy Hollow, NY SOIL DATA SUMMARY SVOCs

LMS Sample ID Lab Sample ID Date Sampled Units	P-7 C1535-02C 12/8/2004 mg/kg	B-16 C1535-19C 12/9/2004 mg/kg	B-20 C1536-02C 12/9/2004 mg/kg	FB C1535-12C 12/9/2004 ug/l	RECOMMENDED SOIL CLEANUP OBJECTIVE (a)
Semivolatile Organic Compounds (mg/kg)	ounds (mg/kg)				
Phenol	QN	Q	Q	3 j	0.03
Fluoranthene	0.12 j	QN	0.2 j	Q	20***
Pyrene	0.15 j	Q	0.15 j	Q	20***
Butylbenzylphthalate	Q	QN	0.26 j	Q	20
Benzo[a]anthracene	0.11	QN	QN	Q	0.224 or MDL
Chrysene	0.15 j	QN	QN	Q	0.4
Benzo[b]fluoranthene	0.3 j	Q	Q	QV	1.1
Benzo[k]fluoranthene	0.12 j	Q	Q	Q	1.1
Benzo[a]pyrene	0.18j	Q	QN	Q	0.061 or MDL
Benzo[g,h,i]perylene	0.18j	QN	QN	QV	20***
Indeno[1,2,3-cd]pyrene	0.16j	QN	QN	Q	3.2
Dibenzo (a,h) anthracene	0.042 j	Q	QN	QV	0.014 or MDL
Bis (2- Ethylhexyl) phthalate	0.12j	QN	QN	QN	20 ***
Total SVOCs:	1.632	QN	0.61	3	

- As per TAGM#4046, Total VOCs < 10 ppm, Total SVOCs < 500 ppm, and Individual SVOCs < 50 ppm.

- NYSDEC Technical Administrative Guidance Memorandum (TAGM) 4046, January 1994.

- Estimated concentration.

MDL - Method Detection Limit.

ND - Not detected

Note - Numbers in bold exceed cleanup objectives.

NA - not applicable.

Barnhart Park, Sleepy Hollow, NY SOIL DATA SUMMARY PCBs/Pesticides

LMS Sample ID Lab Sample ID Date Sampled Units	P-7 C1535-02D 12/8/2004 mg/kg	B16 C1535-19D 12/9/2004 mg/kg	B-20 C1536-02A 12/9/2004 mg/kg	FB C1535-12C 12/9/2004 ug/l	FB RECOMMENDED C1535-12C SOIL CLEANUP 12/9/2004 OBJECTIVE (a) ug/l
PCBs (mg/kg)	QN	QN	QN	QN	1.0/10 *
Pesticides (mg/kg)	QN	Q	QN	QN	various

(a) • NYSDEC Technical Administrative Guidance Memorandum (TAGM) 4046, January 1994.
 ND • Not detected.
 • Total PCB cleanup objectives in surface/subsurface soils.

TABLE 1

Barnhart Park, Sleepy Hollow, NY SOIL DATA SUMMARY Metals

		_				_				_	_											_		
RECOMMENDED SOIL CLEANUP OBJECTIVES (a)		SB	SB	7.5 or SB	300 or SB	0.16 or SB	1 or SB	SB	10 or SB	30 or SB	25 or SB	2000 or SB	SB	SB	SB	0.1	13 or SB	SB	2 or SB	SB	SB	SB	150 or SB	20 or SB
EASTERN USA BACKGROUND (ppm)		33000	A/N	3 - 12**	15 - 600	0 - 1.75	0.1 - 1	130 - 35000	1.5 - 40**	2.5 - 60**	1 - 50	2000 - 550000	***	100 - 5000	20 - 2000	0.001 - 0.2	0.5 - 25	8500 - 43000**	0.1 - 3.9	N/A	0008 - 0009	0.1 - 0.8 (q)	1 - 300	9 - 50
B-5 C1535-09 12/8/2004 mg/kg		Ą	Ϋ́	QN	89.7	ΑN	2.1	Ą	12.7	Ϋ́	Ϋ́	ĄZ	27.2	Ϋ́Z	Ϋ́	0.13	Ą	Ą	Q	10.4	ΑN	ΑN	Ϋ́	Y V
B-3 C1535-08 12/8/2004 mg/kg		Ϋ́	Ϋ́	Q	51.1	Ϋ́	1.4	Ϋ́	11.5	Ϋ́	Ϋ́	Ϋ́	52.1	Ϋ́	Ϋ́	0.25	Ϋ́	Ϋ́	Q	4	Ϋ́	Ϋ́	Υ	Y Z
B-1 C1535-07 12/8/2004 mg/kg		Ϋ́	Ϋ́	0.43 b	61.8	Ϋ́	7	ΑN	9.9	Ą	Ϋ́	Ϋ́Z	139	Ą	¥	182	Ϋ́	Ν	Q	Q	Ϋ́	Ϋ́	Ϋ́	Y Y
P-15 C1535-06 12/8/2004 mg/kg		Ϋ́	Ϋ́	Q	37.4	Ϋ́	1.2	Ϋ́	8.1	Ϋ́	Ϋ́	Ą	15.1	AN	ΑN	8.5	Ν	Ϋ́	Q	5.6	Ϋ́	Ϋ́	Ϋ́	Ϋ́
P-13 C1535-05 12/8/2004 mg/kg		Ϋ́	Ą	1.2	162	NA	1.8	Ą	11.4	AN	Ą	Ϋ́	410	AN	A	0.19	AN	NA	Q	8.8	Ą	Ą	ΑN	V V
P-10 C1535-04 12/8/2004 mg/kg		Ϋ́	Ą Z	QN	68.2	Ą Z	1.9	Ϋ́	11.9	A A	Ϋ́Z	∢ Z	30.9	∀ Z	Ą Z	8.	Ϋ́	Ϋ́	Q	9.1	Ϋ́	Ϋ́	Ϋ́Z	¥ Z
P-8 C1535-03 12/8/2004 mg/kg		Ą Z	Ą Z	2	64.2	A V	2	Ϋ́	11.2	Ą	Ϋ́	Ϋ́Z	21.8	Ą Z	Ϋ́	0.18	A V	Ϋ́	Q	9.7	Ϋ́	Ϋ́	Ϋ́	Y Y
P-7 C1535-02 12/8/2004 mg/kg		6770	0.98 b	2	47.5	0.19 b	1.4	1210	8.1	4.6	14.1	8950	44.9	2210	189	2.9	9.6	1090	Q	9	49.2 b	QN	12.1	60.1
P.4 C1535-01 12/8/2004 mg/kg		Ϋ́Z	Ϋ́	Q	8.06	Ϋ́	2.6	Ϋ́	22.7	Ϋ́	Ϋ́Z	Ϋ́Z	52.1	Y Y	Ν Α	13.9	N	Ν	Q	7.1	Ϋ́	∀ Z	¥ Z	Υ V
P-2 C1536-04 12/8/2004 mg/kg		۲	Ϋ́	Q	113	Ϋ́	4.6	Ϋ́	14.2	Ą	Ϋ́	Ϋ́	180	Ą Z	Ą Z	2130.0	ΑN	Ϋ́	Q	5.3	Ą Z	∢ Z	۷ Z	∀
P-1 C1536-03 12/8/2004 mg/kg		Ą	Ϋ́	QN	43.6	ΝΑ	2.3	Ą	12.4	Υ	Ϋ́Z	Ϋ́Z	10.6	Ϋ́Z	Ϋ́	3.1	NA	NA	QN	10.4	Ϋ́	Ą	Ϋ́	V
LMS Sample ID Lab Sample ID Date Sampled Units	Metais (mg/kg)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc

New York State Background

- As cited by NYSDEC, Background levels for lead vary widely, Levels in undeveloped, rural areas can range from 4 - 61 ppm, while suburbanurban areas can range from 200 - 500 ppm

- My SDEC Technical Administrative Guidance Memorandum (TAGM) 4046, January 1994

- Bowan, H.J., Environmental Chemistry of the Elements

- Value is less than contract-required detection limit but greater than the instrument detection limit.

- Indicators an estimated value because of the presence of interference

- Not detected.

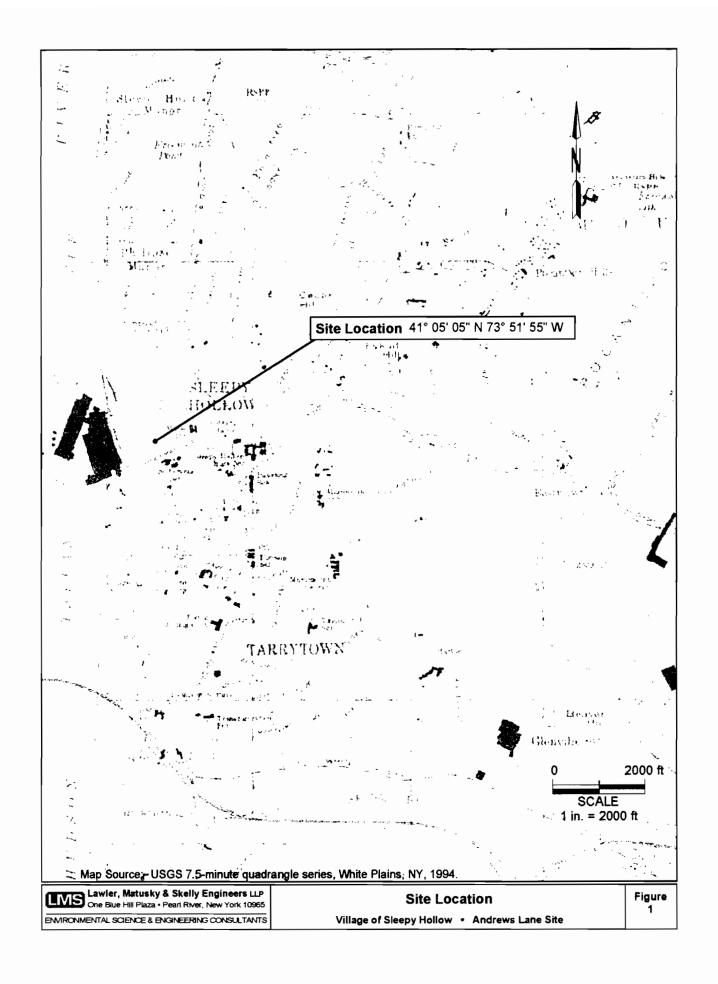
- Not detected.

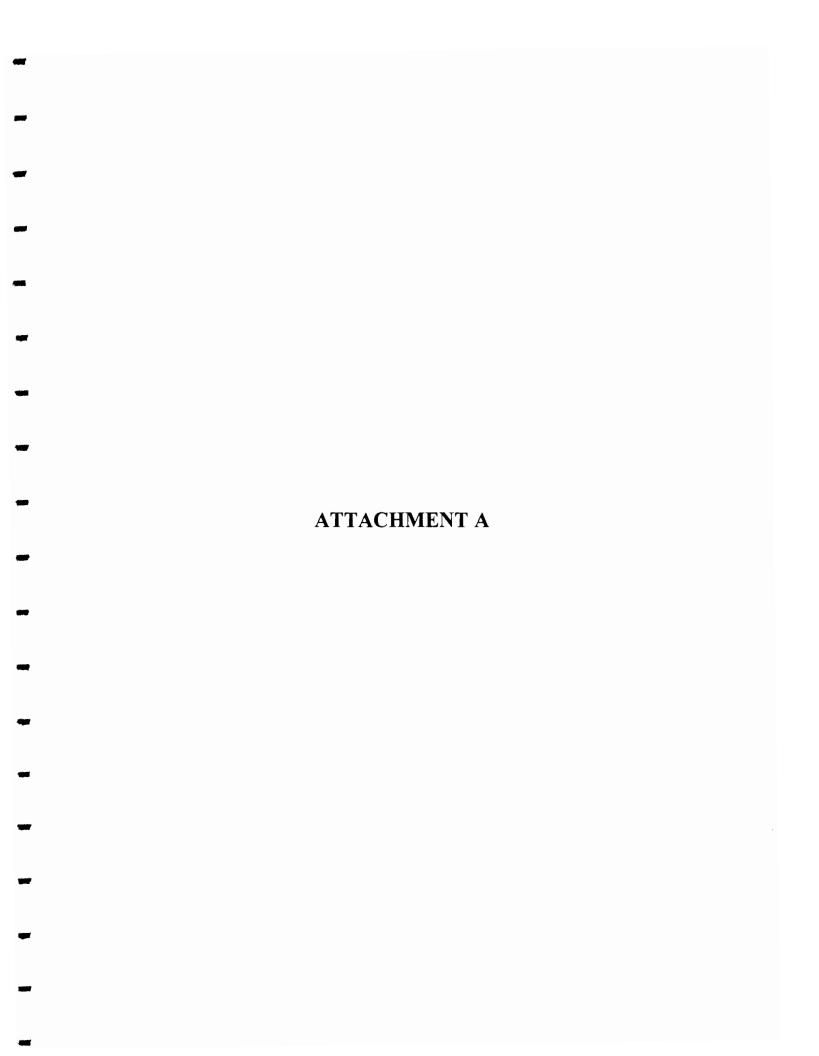
- Numbers in bold exceed soil cleanup objectives. (a) (b) NOte SB

Barnhart Park, Sleepy Hollow, NY SOIL DATA SUMMARY Metals

LMS Sample ID Lab Sample ID Date Sampled Units	B-6 C1535-10 12/8/2004 mg/kg	B-9 C1535-13 12/8/2004 mg/kg	B-11 C1535-14 12/9/2004 mg/kg	B-12 C1535-15 12/9/2004 mg/kg	B-13 C1535-16 12/9/2004 mg/kg	B-14 C1535-17 12/9/2004 mg/kg	GP-1 (dup) C1535-18 mg/kg	B-16 C1535-19 12/9/2004 mg/kg	B-20 C1536-02 12/9/2004 mg/kg	B-23 C1536-01 12/9/2004 mg/kg	B-27 C1535-20 12/9/2004 mg/kg	FB C1535-12 12/8/2004 ug/l	EASTERN USA BACKGROUND (ppm)	RECOMMENDED SOIL CLEANUP OBJECTIVES (a)
Metals (mg/kg)														
Aluminum	Ϋ́	Ϋ́	Š	¥	Ą	Ϋ́	Ϋ́	7340	5700	Ϋ́	Ϋ́	27.6 b	33000	SB
Antimony	Ϋ́	Ϋ́	Ϋ́	₹	∀ Z	Ϋ́Z	Š	1.4	1.3	¥ Z	Ą Z	Q	Y/Z	SB
Arsenic	2	9	2	Q	Q	Q	0.085 b	1.4	Q	Q	QN	Q	3 - 12**	7.5 or SB
Barium	85.1	84.6	70.5	95.5	83.7	94.5	86.7	112	38.5	58.2	42.7	6.2 b	15 - 600	300 or SB
Beryllium	A A	Ϋ́	Ϋ́	¥	Ą	Ϋ́	Ϋ́	0.26 b	0.18 b	Ν	Ϋ́	QN	0 - 1.75	0.16 or SB
Cadmium	7	2.3	1.7	2.3	1.9	2.4	2.2	2.2	1.5	1.8	2.7	0.18 b	0.1 - 1	1 or SB
Calcinm	Ϋ́	Š	Ą Z	∀ Z	Ą Z	∢ Z	Š	1610	715	¥ Z	Ϋ́	105 b	130 - 35000	SB
Chromium	15.6	13.9	12.9	17.6	15.5	27.5	16.5	15.2	7.9	11.5	10.4	0.68 b	1.5 - 40**	10 or SB
Cobalt	Ą	Ϋ́	Ą Z	Ϋ́	₹	۷ Z	Ϋ́	5.1	4.3	Ϋ́	Ϋ́Z	1.3 b	2.5 - 60**	30 or SB
Copper	Ą	Ϋ́	Ϋ́	Ą	¥ Z	Ϋ́	Ϋ́	38.4	11.4	Ϋ́	Ϋ́Z	7 b	1 - 50	25 or SB
Iron	A A	Y V	¥	Ā	Ϋ́	Ϋ́	Ϋ́	11400	9320	Ϋ́	Ϋ́	99.5 b	2000 - 550000	2000 or SB
Lead	47.9	45.1	6.05	52.3	44.2	54.5	48.1	350	13.5	9.1	229	QN	:	SB
Magnesium	Y Z	Ϋ́	Ϋ́	₹	Ϋ́Z	Ϋ́Z	Ϋ́	2300	2340	Ą Z	Ϋ́	54.5 b	100 - 5000	SB
Manganese	Ą Z	Y V	Ą	Ą	Ϋ́	Ϋ́	Υ	235	304	Ą	Ϋ́	4.2 b	20 - 2000	SB
Mercury	7	1.3	0.19	0.23	0.25	0.23	0.22	'n	0.11	0.076	1.9	QN	0.001 - 0.2	0.1
Nickel	Ą	Ϋ́	Ϋ́	¥	Ą	Ϋ́	Š	12.3	8.9	Ν	Ϋ́	1.5 b	0.5 - 25	13 or SB
Potassium	Ϋ́	Ϋ́	Ϋ́	Ϋ́	¥	Ϋ́	Ϋ́	933	1160	Ϋ́	Ϋ́	Q	8500 - 43000**	SB
Selenium	Q	2	Q	2	Q	Q	Q	Q	Q	Q	2	3.1 b	0.1 - 3.9	2 or SB
Silver	6.2	2.4	5.5	7.4	6.2	9.7	6.2	7.5	5.7	8.7	4.5	QN	Y/A	SB
Sodium	Ą	Ϋ́	Ϋ́	Ϋ́	Ϋ́Z	Ϋ́	Ϋ́	76.3	67.8	Ϋ́	Ϋ́Z	Q	9000 - 8000	SB
Thallium	¥	Ą	Ϋ́	¥	Ϋ́	Ϋ́	Ϋ́	Q	Q	Ϋ́	Ϋ́Z	Q	0.1 - 0.8 (q)	SB
Vanadium	ΑN	Ϋ́	Ą Z	Ϋ́	Ϋ́Z	Ϋ́Z	Ϋ́	21	10.2	Ϋ́	Ϋ́	QV	1 - 300	150 or SB
Zinc	¥ X	ď	ď Z	ď Ž	ď	ď Z	Y Y	170	44.7	۷ Z	Ϋ́	10.4 b	9 - 50	20 or SB

FIGURES





П	MS		Tee	t Bo	ring	Lor	,				y No.: P-1
		4	163	- 50	illig	LOÍ	<u> </u>	_		Sheet	
		me: B	arnhar	t Park							ct No.: 911-007
Clien											Start 12-8-04
Drille	_										inish
			Geo P	robe_							Depth: 4ft
		ation	<u> </u>								To Water:
	dinate	_									Elevation:
			Fried							Hole D	Diameter:
Moni	toring	Instr	ument	(s): Pl	D						
		Blows Or	Sample	er	1 1		ĺ	ĺ	Classification Of Material		
Œ				. 4	Recovery (ft)	Instrument Reading	Sample Retained	1	f - fine and - 3 m - medium some -	5-50% 20-35%	
Depth (ft)	.9-,.0	6"-12"	12"-18"	18"-24"	(ft)	trun	amp		c - coarse little - 1	0-20%	Remarks
			-				လ ဇိ		trace -		
0-4'					3' 10"	0.2			Dark brown coarse sand, sor and organic material	-	
]
						0.2		10"	Concrete (weathered)	
						0.2		1'5"	Medium brown sand		
						0.3		1'8"	Brick		
						0.2	x	1'9"	Coarse brown sand.		
									EOB = 4ft		
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П	MS		Toc	t Bo	ring	100	٠,					No.: P-2
			163	- 50	11119	LOÍ	<u> </u>				Sheet	
Proje	ect Na	me : B	arnhar	t Park								t No.: 911-007
Clier												Start 12-8-04
Drille											FF	inish
Drilli	ng Me	thod:	Geo F	robe							Total D	Depth: 4ft
Bori	ng Loc	cation	:								Depth	To Water:
Coor	dinate	es:									Surf. E	levation:
Logg	ed By	: Cary	/ Fried	man							Hole D	iameter:
Moni	itoring	Instr	ument	(s): PI	D							
		Blows O	n Sample	er					Classification C	Of Material		
€	_			<u>.</u>	<u>~</u>	ent Jg	e e		f - fine	and - 35-50		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	rum adir	Sample Retained		m - medium c - coarse	some - 20- little - 10-2		Remarks
De		9	7	F	R _e	Instrument Reading	N &			trace - 0-10)%	
0-4'					2'5"	0.3			Wet coarse brown sa	and and org	anics.	
		_							Dark harring and an			
						18		2"	Dark brown sand an black slaggy		some	
									black slaggy	material		
				-		0.1		1'	Brown coar	se sand.		
									D . b b b =			
		_						1'5"	Pebbles and	concrete.		
					_	0	X	2'3"	Coarse bro	wn sand		
								23				
		-							EOB =	4 ft		
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П	MS		Tes	t Bo	ring	Loc	1					No.: P - 3
											Sheet	
		me: B	arnhar	t Park								t No.: 911-007
Clier												Start 12-8-04
Drille											_	inish
		_	Geo P	robe								Depth: 4ft
		cation	<u>: </u>									To Water:
	dinate											levation:
			Fried								Hole D	Diameter:
Mon			ument		<u>U</u>							
		Blows O	n Sample	r	1	_	1		Classification	Of Material and - 35-50	10/.	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2' 9"	0.2			Dark brown coarse	sand and gr	avel.	
						0.2		1'	Coarse brown sa	and trace gra	vel.	
									EOB:	= 4 ft		
					_							
			_									
			_	_								
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			_									
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П	MS		Taa	4 D -	ring						Boring	No.: P - 4
						LO	3					1 of
		me: B	arnhar	t Park								t No.: 911-007
Clier												Start 12-8-04
Drille								_				inish
			Geo F	robe	_							Depth: 4ft
		cation	:									To Water:
	dinate											levation:
			Fried								Hole D	iameter:
Mon			ument		<u>U</u>		,					
		Blows O	n Sample			<u>_</u>	_		Classification Of	Material and - 35-50	1%	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	some - 20-3 little - 10-20 trace - 0-10	35%)%	Remarks
0-4'					3'	0.3			Medium brown sand	some gra	vel.	
									D : 1.			
		 				0		9"	Brick			
						0.3		1'3"	Brown coarse sand so	me glass p	ieces.	
									Light brown medium	-coarse sa	and.	
						0.3	X	2'	EOB = 4	ft		
					_							
		_										
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Test Boring Log Project Name: Barnhart Park Project No.: 911-007 Cilient: Village of Sleepy Hollow Date: Start 12-8-04 Finish Drilling Method: Geo Probe Boring Location: Depth: 4tt Depth: Total Depth: 4tt Depth: Total Depth: 4tt Depth To Water: Surf. Elevation: Hole Diameter: Monitoring Instrument(s): PID	П	MS		Tac	+ D^	rin~	1 ~						No.: P - 5
Client: Village of Sleepy Hollow Date: Start 12-8-04 Driller: Finish Drilling Method: Geo Probe Depth To Water: Coordinates: Logged By: Cary Friedman Monitoring Instrument(s): PID Blows On Sampler Classification Of Material f - fine and - 35-50% m - medium some - 20-35% Inter-0-10% Remarks C- coarse Large pebble. Date: Start 12-8-04 Medium coarse brown sand and organics. Large pebble. Coarse brown sand and gravel. Weathered concrete.						ring	roć	<u> </u>					
Driller: Drilling Method: Geo Probe Boring Location: Coordinates: Logged By: Cary Friedman Monitoring Instrument(s): PID Blows On Sampler □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □													
Drilling Method: Geo Probe Total Depth: 4ft			age of	Sleepy	/ Hollo	W							
Boring Location: Coordinates: Logged By: Cary Friedman Monitoring Instrument(s): PID Blows On Sampler Logged By: Cary Friedman Classification Of Material f - fine and - 35-50% m - medium some - 20-35% r- c- coarse little - 10-20% trace - 0-10% Medium coarse brown sand and organics. Large pebble. Coarse brown sand and gravel. Weathered concrete.	Drille	er:											
Coordinates: Logged By: Cary Friedman Monitoring Instrument(s): PID Blows On Sampler Classification Of Material F - fine and - 35-50% m- medium some - 20-35% little - 10-20% trace - 0-10% Medium coarse brown sand and organics. Coarse brown sand and gravel. Coarse brown sand and gravel. Weathered concrete.	Drilli	ng Me	thod:	Geo P	robe								
Monitoring Instrument(s): PID Blows On Sampler For S	Bori	ng Loc	ation	:									
Monitoring Instrument(s): PID Blows On Sampler Fig.	Coor	dinate	es:										
Blows On Sampler Fig. September Sep												Hole D	iameter:
Foundation Fou	Moni	itoring	Instr	ument	(s): Pl	D							
1/7 0.2 1/7			Blows Or	n Sample	er					i .		NO.	
0-4'	Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium	some - 20- little - 10-20	35% 0%	Remarks
0.2 6" Large pebble. 0.2 7" Coarse brown sand and gravel. 0.2 11" Weathered concrete.	0-4'					1'7"				Medium coarse brov	vn sand a	ind	
0.2 7" Coarse brown sand and gravel. 0.2 11" Weathered concrete.										organics			
0.2 7" Coarse brown sand and gravel. 0.2 11" Weathered concrete.													
0.2 11" Weathered concrete.						_	0.2		6"	Large pebb	ole.		
							0.2		7"	Coarse brown sand	and grav	el.	
Refusal at 2ft, hole offset 1ft to the East.							0.2		11"	Weathered cor	ncrete.		
						_		X		Refusal at 2ft, hole offse	t 1ft to th	e East.	
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Clier		me: B	arnnar	t Park								t No.: 911-007
Drille												Start 12-8-04 inish
		41	Caal) b -				_				
			Geo F	robe								Depth: 4ft
		cation	<u> </u>									To Water:
	dinate		<u> </u>				_					levation:
			Fried								Hole D	iameter:
Mon				(s): Pl	<u> </u>							
		Blows O	n Sample	er		_			Classification C	of Material and - 35-50	1%	
(£)		5	18"	24"	very (Then Jing	ple		m - medium	some - 20-3		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse	little - 10-20 trace - 0-10		Remarks
0-4'							[Dork brown son			
0-4		_	-		2'5"	0.2			Dark brown sand	u anu grave	١.	
	_			-		0.2		1'8"	Brown medi	um sand		
				_	_	0.2		10	Diowii iliculi	a Jana.		
-									EOB =	4 ft		
					_							
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		_	162	- DO	inig	LO	<u> </u>				Sheet	
		me: B	arnhar	t Park								t No.: 911-007
Clien												Start 12-8-04
Drille												inish
			Geo F	robe								Depth: 4ft
		cation	<u>: </u>									To Water:
	dinate							_				levation:
			Fried								Hole D	iameter:
Moni				(s): Pl	<u>D</u>							
		Blows O	n Sample	er	-	_			Classification Of Mate		.,	,
Œ	÷.	5.	<u></u>	.4	, ery	nen! ing	pe d			nd - 35-50° ome - 20-3		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse lit	ttle - 10-20		Remarks
		_	ļ . `	,			W 12			ace - 0-10°		
0-4'					2'8"	0.3			Brown medium sand so	me grav	vel.	
		_	-		_	- 1	_	4.	Plank alama mat	orial		
				_		0.4		1'	Black slaggy mat	enal.		
				_	_	0.3		1'3"	Medium brown s	and		
		_			_	0.3	×	13	Wigalam Blown S	aria.		
		_					 ^-		EOB = 4 ft		J	
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	ect Na						_					t No.: 911-007
Clien		me. D	arrinar	LFaik							_	Start 12-8-04
Drille												inish
		4 h = d :	Coo F)robo								Depth: 4ft
	ng Me			Tobe		_						
	ng Loc		:									To Water:
	dinate		المراد المار				_					iameter:
	ed By										Hole D	lameter:
моп				(s): Pl	<u> </u>				01 15 11 01			
_		Blows Or				يا	_		Classification Of f - fine	material and - 35-50	0%	
) (ft)	9		12"-18"	18"-24"	very	mer	ple ined		m - medium	some - 20-	35%	Domorko
Depth (ft)	.90	6"-12"	12"-	18.	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse	little - 10-2 trace - 0-10		Remarks
0-4'					2'2"	0.2			Brown coarse sand			
0-4				_	22	0.2			materia	-	THE	
									materie	41.		
				_		0.2		1'	Black slaggy r	material.		
				_		0.2		'				
						0.2		1'1"	Brown coarse sand	some gra	vel.	
		_				0.2	х	, ,				
		_				_			EOB = 4	4 ft		
				-								
-												
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	-4 11-		103	t Dool	9		1			Sheet	
		me: B	arnhar	ı Park							t No.: 911-007
Clier											Start 12-8-04
Drille											inish
			Geo P	robe							Depth: 4ft
	ng Loc		:								To Water:
	dinate										levation:
			Fried							Hole D	liameter:
Moni				(s): PI	<u>U</u>						
Depth (ft)	90	9 sws Or	Sample	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		Classification Of Material f - fine	-35% 20%	Remarks
							ο, κ		trace - 0-1		
0-4'					2'	0.2			Brown coarse sand and orga	nics.	
						0.2		7"	Brown coarse sand.		
						0.2		1'	Fine-medium light brown sa	nd.	
		_							EOB = 4 ft		
		_			_						
		_									
		_			_						
						 					
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						_					
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П	MS		т	4 Da	ring		_					No.: P - 10
	MIC		res	i bo	ring	LO	<u> </u>				Sheet	1 of
Proje	ect Na	me: B	<u>a</u> rnhar	t Park								t No.: 911-007
Clier												Start 12-8-04
Drille												inish
			Geo P	robe								Depth: 4ft
		cation	<u>:</u>									To Water:
	dinate											levation:
			Fried								Hole D	iameter:
Moni	_			(s): PI	D	,						Г —
		Blows Or	n Sample	er T		<u>.</u>			Classification Of Mat	terial and - 35-50	10/2	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	some - 20-3 little - 10-20 trace - 0-10	35%)%	Remarks
0-4'					2'	0.4			Brown coarse sand w/ so	ome org	anics.	
			_						Weathered cond	crete.		
						0.2		7"				
					_	0.2		10"	Medium brown sand som organics.	e gravel	, trace	
						0.2		10				
							Х		EOB = 4 ft			
-												
		_										
		_					_					
					_	_						
						_						
			_			_			<u> </u>			

П	MS		_								Boring	No.: P - 11
Ц	VI C		Tes	t Bo	ring	Lo	3				Sheet	1 of
Proje	ct Na	me: Ba	arnhar	t Park							Projec	t No.: 911-007
Clien	it:										Date: S	Start 12-8-04
Drille	er:										F	inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
		cation										To Water:
	dinate											levation:
			Fried	man							Hole D	iameter:
				(s): PI	D					_		
			n Sample						Classification Of Mate	erial		
2					جے	i i	a 70		1 11110	and - 35-50		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse	some - 20- ittle - 10-20 race - 0-10	0%	Remarks
			·	<u> </u>	2'8"	0.4	- IE		Very moist dark brown o			
0-4'					20	0.4			very moist dark blowing	Loaise s	sanu.	
						0.3		6"	Black slaggy material ar	nd cond	rete,	
									some coarse dark bro			
						0.3		1'	l Black slaggy mat	terial.		
								4.48	Light brown mediur	m sand		
						0.3		1'4"				
									EOB = 4 ft			
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П	MS		Tes	t Bo	ring	Loc	יו					No.: P - 12
Drois	ot No			t Dork	9		•				Sheet	
Clien		me; b	arnhar	LPark								t No.: 911-007 Start 12-8-04
Drille												inish
		thod:	Con D	Irobo								
			Geo P	robe								Depth: 4ft
		ation										To Water:
	dinate		- Cain al									lievation:
			Fried		<u> </u>						Hole D	tameter:
MOU		_	ument n Sample						Classification Of Mat			
		Blows Of			_	_ <u>-</u>	_		1	eriai and - 35-50)%	
th (ft	.90	6"-12"	12"-18"	18"-24"	t)	Jmer ding	nple		m - medium	some - 20-		Remarks
Depth (ft)	0	- '9	12"	18.	Recovery (ft)	Instrument Reading	Sample Retained		C - COBISC	ittle - 10-20 race - 0-10		rtemarks
0-4'	_				2'11"				Dark brown coarse sand			
0 4			_		- ' -	0.0						
									Medium-coarse brown	sand tr	ace	
						0.4		3"	gravel.			
									EOB = 4 ft			
				_	_							
					_							
	_											
		-		_								
							_					
			_			_						
-	-				_							
	_				_							
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	_			_								
				_								
			_									
	_											

П	VIS		Tes	t Bo	ring	Loc	ו					No.: P - 13
					9		1				Sheet	
Clien		me: Ba	arnhar	Park								t No.: 911-007 Start 12-8-04
Drille												inish
		4la a al .	Coo.D	robo								
			Geo P	robe								Depth: 4ft
		ation										To Water:
	dinate		- Cain de							-		iameter:
			Friedr								HOIE D	lameter:
MONI		_		(s): PI			J	Ι	Classification Of M	latarial		
		Blows Or	Sample		_		_		f - fine	and - 35-50	0%	
#)	.90	6"-12"	12"-18"	18"-24"	t)	umer	nple		m - medium	some - 20-		Remarks
Depth (ft)	0	9	12".	8	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse	little - 10-2 trace - 0-10		romans
0-4'					2'2"	0.5			Coarse brown sand			
0-4					22	0.0			material.			
-				_								
	_					0.4		6"	Brown coarse sand and	d some g	ravel.	
						0.3		10'	Black slaggy materia	al and gla	SS.	
						0.3	x	1'3"	Medium brown sand	trace gra	vel.	
	_								EOB = 4	ft		
									200-4			
		_										
				_								
							_					
				_	-							
						-						
-	_			_		_						
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П	MS		Tas	• Pa	ring	166				_		No.: P - 14
	VI C		res	t bo	ring	LOC	3				Sheet	
		me: B	arnhar	t Park								t No.: 911-007
Clien												Start 12-8-04
Drille												inish
			Geo P	robe								epth: 4ft
		cation	<u> </u>									To Water:
	dinate											levation:
			Fried								Hole D	iameter:
Moni			ument		D					_		
		Blows Or	n Sample	er T		_			Classification Of Mater	rial id - 35-509	0/4	
(f)		5	<u>.</u>	24"	very	men Jing	ple		1 11110	me - 20-3		D
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse littl	le - 10-20 ice - 0-109		Remarks
0-4'					1'10"	0.3			Brown sand and org	janics.		
						0.3		4"	Brown medium-fine san	id and s	silt.	
						0.3		8"	Coarse brown sand son	ne grav	el.	
						0		1'	Medium-fine light brown sa	nd with	some	
						_			gravel.			
									EOB = 4 ft			
				_								
	_											
	_											
				_								
			_									
							_					
							_					
				-								

	MS		Tes	t Bo	ring	Loc	1			Boring	No.: P - 15
				t Park	3			_			t No.: 911-007
Clien		nie. D	ammai	t i aik				_	<u> </u>		Start 12-8-04
Drille											inish
		thod:	Geo P	Probe							Depth: 4ft
		ation		1000		_					To Water:
	dinate		<u> </u>				_				levation:
			Fried	man							iameter:
				(s): PI	D						
			n Sample	_					Classification Of Material	_	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine and - 35 m - medium some - 2 c - coarse little - 10 trace - 0	0-35% -20% -10%	Remarks
0-4'					2'6"	0.2			Dark brown sand with some of		
									and trace slaggy materia	al.	
				-				1'4"	Light brown medium-coarse sa	and with	
							x	14	some gravel.	WILL	
							_^				
									EOB = 4 ft		
											,
	_										
	_										
				_							
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				_							
				_							
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П	MS	3	TAS	t Bo	ring	Loc	٦				No.: P - 16
	411		1 63	. 50	iiig	LO	1			Sheet	
		me: B	arnhar	t Park							t No.: 911-007
Clier											Start 12-8-04
Drille								_			inish
			Geo F	, rope							Depth: 4ft
	ng Loc		:								To Water:
	dinate										levation:
			Fried							Hole D	iameter:
Moni				(s): Pl	D	,		1			
1		Blows O	n Sample	er T	1				Classification Of Material	00/	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine and - 35-5 m - medium some - 20 c - coarse little - 10-2 trace - 0-1	35% 0%	Remarks
0-4'					3'2"	0.2			Medium brown sand and orga	nics.	
								8"	Black slaggy material and glas	s and	
									coarse brown sand.		
								1'7"	Medium brown sand with some	gravel.	
									EOB = 4 ft		
				_							
						_					
						_					
				_							
-							_				
	_										

П	MS		Tes	4 D =							Boring	No.: B-1
	VI C		Tes	t Bo	rınç	J LO	g				Sheet	1 of
Proje	ct Na	me: Ba	arnhar	t Park								t No.: 911-007
		ige of	Sleepy	/ Hollo	<u>w</u> _							Start 12-8-04
Drille												inish
			Geo P	robe								epth: 4ft
		ation										To Water:
	dinate											levation:
			Friedr								Hole D	iameter:
Moni			ument		<u>U</u>	,						
		Blows Or	Sample			=	_		Classification Of Mate	eriai and - 35-50)%	
Depth (ft)	0"-6" 6"-12" 12"-18" 18"-24" (ft) Instrume Reading Sample Reading								m - medium s	some - 20- ittle - 10-20 race - 0-10	35%)%	Remarks
0-4'					2' 8"				Dark brown coarse sand	d and gr	avel.	
									Little slag-like ma	iterial.		
						0		4"	Concrete and glass w/ s	some sla	aggy	
									material.			
						0	Х	10"	Medium brown sand w/ so	me ara	vel and	
									trace pebbles	_	VCI alla	
									EOB = 4 ft			
			_									
\vdash			_									
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П	MS			4 D -		. 1 .					Boring	No.: B-2
	MC		Tes	I BO	rınç	LO	og				Sheet	1 of
Proj	ect Na	me: B	arnhar	t Park							Projec	t No.: 911-007
Clie	nt: Villa	age of	Sleepy	/ Hollo	w						Date: S	Start 12-8-04
Drill											F	inish
Drill	ing Me	thod:	Geo P	robe							Total [Depth: 4ft
	ng Loc											To Water:
	rdinate											levation:
Loge	ged By	r: Cary	Friedr	man								iameter:
	itoring				D							
			n Sample						Classification Of Materia	1		
£		Ī.		<u>.</u>	ڇ	ent ig	9 P		, ,,,,,,	- 35-50		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse little	e - 20-3 - 10-20 e - 0-10	0%	Remarks
0-4'								_	Brown coarse sand with a li	ttle g	ravel.	
						0.2		1'1"	Brown coarse sand with a li material.	ttie s	laggy	
						0		1'3"	_			
		_							Brown medium sand with so		gravel	
									and trace pebbles			
-	_		_	_					EOB = 4 ft			
_	_											
	_											
-												
	_	_										
	_	_										
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LMS Test Boring Log												Boring No.: B-3		
												Sheet 1 of		
Project Name: Barnhart Park												Project No.: 911-007		
Client: Village of Sleepy Hollow												Start 12-8-04		
Drille	er:			Finish										
Drilli	ing Me	thod:		Total Depth: 4ft										
Bori	ng Lo	cation	:								Depth To Water:			
Coo	rdinate	es:										levation:		
	ged By							_			Hole D	iameter:		
Mon	itoring	Instr	ument	<u>(s</u>): Pl	D									
İ		Blows O	n Sample	er					Classification Of Mate		10/			
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium s	and - 35-50 come - 20-1 ttle - 10-20 race - 0-10	35% 0%	Remarks		
0-4'					3'	0			Dark brown coarse sar	nd with I	ittle			
									gravel.					
								4.50	Dioak ologov material		alass			
				-		0		10"	Black slaggy material with	some	giass.			
					-				Coarse brown sand and	daravel	with			
						0		1'	trace pebbles					
									Medium brown sand with	little sla	ag-like			
						0_		2'	material.					
		_							EOB = 4 ft					
		_		_					202 410					
				_										
				_										
				_										
				_										
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	_													
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LMS Test Boring Log												Boring No.: B-4		
												Sheet 1 of		
Project Name: Barnhart Park												Project No.: 911-007		
Client:												Date: Start 12-8-04		
Drille	er:		Finish											
Drilli	ng Me	thod:	Geo P	robe							Total Depth: 4ft			
Bori	ng Lo	cation	:								Depth To Water:			
Coor	dinate	es:									Surf. E	levation:		
Logg	ged By	r: Cary	Fried	man							Hole D	iameter:		
Moni	toring	Instr	ument	(s): Pl	D									
		Blows O	n Sample	er	1				Classification Of Ma					
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks		
0-4'					3'	0			Moist brown sand with so		el and			
									trace of brid	ck.				
									Distriction of the second of t					
		0 7" Black slaggy material and coar brown sand.								e dark				
		_		_					Diowii sain	u.				
						0		1'2"	Medium coarse brown s	and with	some			
						Ť			gravel.					
									EOB = 4 f	t				
		_		_										
			-		_									
				-										
				_							1			
		_		_	_									
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	_					-								
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IMC										Boring No.: B-5 Sheet 1 of			
LMS Test Boring Log													
Project Name: Barnhart Park											Project No.: 911-007		
			Sleepy								Date: 9	Start 12-8-04	
Driller:											Finish		
Drilli	ng Me	thod:	Total Depth: 4ft										
Bori	ng Loc	ation	: -								Depth To Water:		
Coor	dinate	es:									Surf. E	levation:	
Logo	ed By	: Cary	Fried	man							Hole D	iameter:	
Moni	itoring	Instr	ument	(s): P	D								
		Blows Or	Sample	er	_				Classification Of M				
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks	
0-4'					2'10"				Dark brown coarse san	d and org	janics.		
]	5				
						_		4	Dark brown coarse sa				
			0 4" gravel, trace pebbles, and trace material. Slight sulfur od										
							х		material. Signt of	and odor			
				_		_	<u>^</u>		Medium light brown sa	and with s	some		
						0		1'2"	gravel.				
									EOB = 4	ft			
									LOB - 4	11			
				_			-						
		_											
						_							
			-										
	_												
								1					
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Method: Location: ates: By: Cary	Geo Pro	Park		O Reading	Sample Retained		Classification Of Material	Date: S F Total Depth Surf. E Hole D	Start 12-8-04 Finish Depth: 4ft To Water: Elevation:
Method: Location: ates: By: Cary ing Instru	Friedm	an	Recovery (ft)		Sample Retained		f - fine and - 3	Date: S F Total Depth Surf. E Hole D	Start 12-8-04 Finish Depth: 4ft To Water: Elevation: Diameter:
Method: Location: ates: By: Cary ing Instru	Friedm	an	Recovery (ft)		Sample Retained		f - fine and - 3	Date: S F Total Depth Surf. E Hole D	Start 12-8-04 Finish Depth: 4ft To Water: Elevation: Diameter:
ates: By: Cary ing Instru Blows Or	Friedm ument(s	an s): PII	Recovery (ft)		Sample Retained		f - fine and - 3	Total Depth Surf. E Hole D	Depth: 4ft To Water: Elevation: Diameter:
ates: By: Cary ing Instru Blows Or	Friedm ument(s	an s): PII	Recovery (ft)		Sample Retained		f - fine and - 3	Depth Surf. E Hole D	To Water: levation: liameter:
ates: By: Cary ing Instru Blows Or	Friedm ument(s	an s): PII	Recovery (ft)		Sample Retained		f - fine and - 3	Depth Surf. E Hole D	To Water: levation: liameter:
ates: By: Cary ing Instru Blows Or	Friedm ument(s	s): PI	Recovery (ft)		Sample Retained		f - fine and - 3	Surf. E Hole D 5-50% 20-35%	levation:
By: Cary ing Instru Blows Or	ument(s	s): PI	Recovery (ft)		Sample Retained		f - fine and - 3	Hole D 5-50% 20-35%	liameter:
Blows Or	ument(s	s): PI	Recovery (ft)		Sample Retained	_	f - fine and - 3	5-50% 20-35%	
Blows Or	Sampler		Recovery (ft)		Sample Retained		f - fine and - 3	20-35%	
		18"-24"			Sample Retained		1 11110	20-35%	
612	12"-18	18"-24			Sampl Retaine				
o o	12	18			Se e		III - IIIGGIGIII	0-20%	Remarks
							c - coarse intie - 1		
							Dark brown coarse sand wit	h a little	
							slaggy material.		
				0		8"	Black slaggy material. Sulfu	ı r odor.	
					х		Description of all		
				0		1'9"	Brown coarse sand and slagg	/ material.	
							Concrete		
					_	014"	Concrete		
_				0		2'1"	Brown coarse sand and slagg	/ material.	
				0		2'4"			
		-		0		24	Concrete		
				0		2'6"			
				U		20	Coarse brown sand and slagg	y material.	
	-	-		0		2'7"			
						- '	EOB = 4 ft		
					_				
_									
		_							
					-				
								Coarse brown sand and slaggy	Coarse brown sand and slaggy material.

	MS		Tes	4 D	!						Boring	No.: B-7
لحا	M.S		Tes	1 RO	ring	LO	g				Sheet	1 of
Proje	ct Naı	me: B	arnhar	t Park							Projec	t No.: 911-007
Clien	t: Villa	ige of	Sleepy	/ Hollo	w						Date: S	Start 12-8-04
Drille											F	inish
Drillir	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
Borin	g Loc	ation	:									To Water:
Coord	dinate	s:										levation:
			Fried								Hole D	iameter:
Monit			ument		D							
-	E	Blows Or	Sample	r T	-		1		Classification Of Ma	aterial and - 35-50	1 0/2	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2'4"	0.1			Dark brown coarse sar			
									organics and a little slag	g-like ma	iterial.	
						0.4		0"	Black slaggy material an	d coarea	hrown	
	0.1 2" Black slaggy material and coarse sand.										DIOWII	
						0		8"	Brown coarse sand a	and grav	el.	
-	EOB = 4 ft											
			_									
											ĺ	
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	MG		_		•				Boring	No.: B- 8
	717		∟⊩es	I BO	rıng	LO	9		Sheet	1 of
Proje	ect Na	me: Ba	arnhar	t Park						t No.: 911-007
Clier	ıt:									Start 12-8-04
Drille	er:								F	inish
Drilli	ng Me	thod:	Geo P	robe						epth: 4ft
		ation	:							To Water:
	dinate									levation:
		: Cary			_				Hole D	iameter:
Moni	_	Instru			<u>D</u>					
		Blows Or	n Sample	er T	-			Classification Of Material	0 0/_	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	f - fine and - 35-5 m - medium some - 20- c - coarse little - 10-2 trace - 0-1	35% 0%	Remarks
0-4'					1'5"	0		Coarse brown sand and grav	/el.	
							-	EOB = 4 ft		
			_					EUB = 4 II		
			_			_				
							-			
			_							
					-					
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		_								
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LMS Test Project Name: Barnhart F	Boring	LUI				-		No.: B- 9
Project Name: Barnhart	-	,	9				Sheet	
	Park							t No.: 911-007
Client:								Start 12-8-04
Driller:	<u> </u>							inish
Drilling Method: Geo Pro	be					$\overline{}$		Depth: 4ft
Boring Location:								To Water:
Coordinates:								levation:
Logged By: Cary Friedma							Hole D	iameter:
Monitoring Instrument(s): PID	,			Olassi Fastion O	*********		Γ
Blows On Sampler		= _	_		Classification O	and - 35-50	%	
0"-6" 6"-12"	18"-24" Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	some - 20-3 little - 10-20 trace - 0-10	15% %	Remarks
0-4'	8"	0.1			Coarse brown sar	nd and grave	el.	
								0-45-1-4
			Х	4"	Black slaggy	material		2nd hole dug to retain enough
				4	Sidok Sidggy	atoriai.		material to
				6"	Brown coarse sand w	vith some gr	avel.	sample.
					F00 -	4 E1		
					EOB =	4 π		
		_						
		_						
			_					
			_					
	_							

T	MS		Tes			No.: B- 10						
				t Park		,	<u> </u>				Sheet	
Clien		ille. D	ammai	traik								t No.: 911-007 Start 12-8-04
Drille												inish
		thod	Geo F	Probo								Depth: 4ft
$\overline{}$				TODE								
	dinate	ation	•									To Water:
			Fried									iameter:
				(s): Pl	<u> </u>						поје В	iameter:
INIOIII			n Sample			_]	Classification Of N	Material		
_		Blows Or		$\overline{}$	_	ا ت ـ	_		Classification Of N	viatenai and - 35-5(0%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	some - 20- little - 10-20 trace - 0-10	0%	Remarks
0-4'					2'7"	0.1			Coarse brown sand wi	th some g	ravel.	
						0.1		10"	Coarse brown sand and	l slaggy m	aterial.	
									Coarse brown sand w		gravel	
						0.1		1'2"	and trace pe	obles.		
									EOB = 4	ft		
	_											
		_		_								
	_											
	_											
				_								

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	VI C		Tes	I RO	ring	LO	g				Sheet	1 of
Proje	ct Na	me: Ba	arnhar	l Park							Project	No. : 911-007
			Sleepy			_					Date: S	tart 12-9-04
Drille			. ,			_		-			Fi	nish
Drillir	ng Me	thod:	Geo P	robe							Total D	epth: 4ft
		ation:										Γο Water:
	dinate											evation:
			Friedr	man							Hole Di	ameter:
			ıment		D							
			Sample						Classification (Of Material		
£					حے	ig g	g e		f - fine	and - 35-50°		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	cove (ft)	adir	Sample Retained		m - medium	some - 20-3 little - 10-20		Remarks
Dep	0	.9	12	18	Recovery (ft)	Instrument Reading	Sa		c - coarse	trace - 0-10		
0-4'					2'9"	0.2			Dark brown coarse	sand with a	little	
]	grav	el.		
]				
						0.1		1'2"	Light brown coarse		little	
								.	slaggy m	aterial.		
									Disak alega	, motorial		
						0.1		1'4"	Black slaggy	y material.		
						0.4		410"	Coarse brown sand	with trace or	avel	
					-	0.1		1'6"	Course brown sand	war adoo gr	410	
$\overline{}$			_						EOB =	= 4 ft		
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	MS		Tes	t Bo	ring	J LO	g				Sheet	1 of
Proje	ect Na	me: B	arnhar	t Park							Projec	t No.: 911-007
Clier	nt:										Date: S	Start 12-9-04
Drille	er:										F	inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
	ng Lo											To Water:
	dinate											levation:
Logg	ed By	r: Cary	/ Fried	man							Hole D	iameter:
Moni	itoring	Instr	ument	(s): PI	D							
		Blows O	n Sample	r					Classification Of M	aterial		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35%)%	Remarks
0-4'					3'	0		_	Very wet dark brown co			
									organics (wood chips		ittle	
									gravel. Sulfur	odor.		
						0		1'8"	Brown coarse sand	and grav	el.	
									EOB = 41	ft		
									1	11		
						_						
							_					
						_						
		_										
					_							
		_										
					ļ		_					
		_										
							_					
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П	MS		Tan		Boring	No.: B- 13					
ㅂ			res	EL DO	rınç	LO	9			Sheet	1 of
Proj	ect Na	me: B	arnhar	t Park							t No.: 911-007
Clie											Start 12-9-04
Drill											inish
	ing Me			Probe_							Depth: 4ft
	ng Lo		<u> </u>								To Water:
	rdinate										levation:
	ged By									Hole D	iameter:
Mon	_			t(s): Pl	D				-		,
		Blows O	n Sample	er	-]		Classification Of Material	E00/	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine and - 35 m - medium some - 25 c - coarse little - 10 trace - 0	20-35% -20%	Remarks
0-4'					3'	0			Dark brown coarse sand and		
									Little organics at the top).	
									Die de la companya de		
						0		9"	Black organic material and som		
						_			brown sand. Trace gravel. Sul	ur odor.	
									Brown coarse sand with some	gravel	
						0	_	1'9"	Brown source same with some	graven	
				_	ļ	0		19	EOB = 4 ft		
					_						
		_									
		_									
	_		_					Į.			
	_				-						
					-						
					_						
		-		-							
	_										
				-							
					_						
			_								
			_								

П	MS		Tes			No.: B- 14/GP-1						
Droid	not No	mal B	ornhor	t Dork	·····§		9				Sheet	
Clier		me. D	arnhar	l Faik								t No.: 911-007 Start 12-9-04
Drille												inish
		thod:	Geo P	robo								Depth: 4ft
				Tobe								
	ng Loo											To Water:
			. Caind									iameter:
			Friediument								Hole D	nameter:
MOU			n Sample				T		Classification Of Ma	-1		
		Blows O			_	= -	_		f - fine	and - 35-50)%	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	some - 20- little - 10-20 trace - 0-10)%	Remarks
0-4'					2'1"	0			Dark brown coarse sar	nd and gr	avel.	
	0 g" Dark brown coarse sand and Sulfur odor.										anics.	
						0	_	1'6"	Brick			
						0		1'9"	Dark brown sand with material.		aggy	
						0		2'2"	Brown coarse sand with	n a little g	ravel.	
									EOB = 4 f	t		
						_						
					_							
							_					
		_		_								
	_											
		_		_								
		_					_					
-												
									<u> </u>		_	

П	MS		Tes	4 D =		Boring	No.: B- 15					
므	AIC		res	t Bo	ring	LO	9				Sheet	1 of
Proje	ect Na	me: B	arnhar	t Park								t No.: 911-007
Clier												Start 12-9-04
Drille												inish
			Geo P	robe								Depth: 4ft
	ng Loc		<u> </u>									To Water:
	dinate	_										levation:
			Friedr								Hole D	iameter:
Moni	_		ument		D							
		Blows Or	n Sample T	r					Classification Of	Material and - 35-50)%	
Depth (ft)	.,9-,,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	some - 20-1 little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					3'	0			Dark brown sand	and grave	l	
									Dinek asses	ا ا	di	
						0		8"	Black organic materia brown sand. Su		aium	
						0		1'10"	Coarse brown sand w	ith trace g	ravel.	
									EOB = 4	ft		
				_								
		_	-					1 1				
		_						1				
		_				_						
			-			_						
				_		_						
						-						
-			-									
						_						
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П	MC		Tes		Boring No.: B- 16							
	MS		Tes	t Bo	ring	LO	g				Sheet	1 of
Proje	ct Na	me: B	arnhar	t Park							Projec	t No.: 911-007
Clier	nt:										Date: S	Start 12-9-04
Drille	er:										F	inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
	ng Loc										Depth	To Water:
	dinate										Surf. E	levation:
Logg	jed By	r: Cary	Fried	man							Hole D	iameter:
			ument		D							
		Blows O	Sample	r					Classification Of Ma			
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2'9"	0			Dark brown coarse sa	nd with s	ome	
									gravel.			
									Darlahara a anata Ma			
						0_		11"	Dark brown sand with material and wood f			
		_							material and wood i	naymeni	5.	
				_		0		1'5"	Coarse brown sand with	h some a	ravel.	
			-					13				
									EOB = 4 f	ft		
	_											
				_								
		_										
						_						
						_	_					
				_			_					
				-			_					
	_			-								

П	MS		Tes		Boring No.: B- 17							
	VIC.		res	I BO	ring	LO	<u>g</u>				Sheet	
Proje	ect Na	me : B	arnhar	t Park							•	t No.: 911-007
Clien	t: Villa	age of	Sleepy	/ Hollo	w							Start 12-9-04
Drille	er:										F	inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
Borin	ng Loc	cation	:									To Water:
Coor	dinate	es:									Surf. E	levation:
Logg	ed By	r: Cary	Fried	man							Hole D	iameter:
Moni	toring	Instr	ument	(s): PI	D							
		Blows Or	Sample	er	1				Classification Of Ma			
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2'7"	0			Dark brown coarse san	nd with a	little	
]	gravel. Organics at th	ne surfac	ce.	
									Links and Control to			
						0_		11"	Light grey fine sand with some grave		iit and	
									some grave	;1.		
						0		1'11"	Dark brown coarse san	nd with s	ome	
						- 0		' ' '	organics and a little slag			
						_			Sulfur odor			
		-						•				
									EOB = 4 ft	t		
				_								
				_								
		_										
		-		_				-				
		_						1				
		_						1				
		_	_	-		_	_					
						_						
		_		_								
				_				-				
								-				
											_	

П	MC		_								Boring	No.: B- 18
Ц	MS		Tes	t Bo	ring	J Lo	9				Sheet	1 of
Proje	ect Na	me: Ba	arnhar	t Park							Projec	t No.: 911-007
Clier	nt:	_									Date: 9	Start 12-9-04
Drille	er:										F	inish
Drilli	ng Me	thod:	Geo P	robe				_			Total D	Depth: 4ft
	ng Loc											To Water:
	dinate										Surf. E	levation:
Logg	ed By	: Cary	Friedr	man							Hole D	iameter:
			ument		D							
		Blows Or	n Sample	r					Classification Of Ma	aterial		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2'5"	0			Dark brown sand with	some gr	avel.	
									Trace organics at the			
						0		5"	Coarse light brown sand a little pebbl		vel with	
									EOB = 4 f			
									208-47			
				_								
		_					_					
							_					
				_								
					_							
	_				_							

	VIG									Boring	No.: B- 19
	MS		Tes	t Bo	ring	Log	q			Sheet	
	ct Na				<u> </u>						t No.: 911-007
Clien				· · unix							Start 12-9-04
Drille											inish
	ng Me	thod:	Geo P	rohe							Pepth: 4ft
	ng Loc			TODE							To Water:
	dinate					_					levation:
	ed By		Friedr	man							iameter:
				(s): PI	<u>D</u>					Tiole B	Tamotor.
10.0	_	Blows Or							Classification Of Material		
(ft)					very)	ment Jing	ple ined		f - fine and - 35-5 m - medium some - 20	-35%	Domostro
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse little - 10-2 trace - 0-1	0%	Remarks
0-4'					1'3"	0			Dark brown coarse sand and or	ganics	
									(grass, twigs).		
								٥.,	Light brown medium-coarse san	d with a	
						0_		9"	little gravel.	u with a	
				_					EOB = 4 ft		
_											
						_					
				_							
							_				
		_									
				_							
				-			_				
		-		_			-				
					-	_					
				_							

П	MC		Tes				_				Boring	No.: B- 20
	ME		les	t Bo	ring	LO	g				Sheet	1 of
Proje	ect Na	me: Ba	arnhari	t Park								t No.: 911-007
Clier	nt:											Start 12-9-04
Drille	er:			_							F	inish
Drilli	ng Me	thod:	Geo P	robe								Depth: 4ft
		cation	:									To Water:
Coor	dinate	es:										levation:
			Friedr								Hole D	iameter:
Moni	toring	Instr	ument	(s): Pl	D							
		Blows Or	n Sample	r	4				Classification O		30/	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					1'9"	0			Dark brown coarse	sand with s	ome	
									gravel and trac	e organics.		
						0		11"	Light brown mediur	m-coarse sa	and.	2nd hole dug to retain enough
						0		1'5"	Inch long	rock.		material to sample.
				_		0		1'6"	Weathered concr	ete and brid	ck.	запіріє.
		_							EOB =	4 ft		
							_					
	_											
				_								
		-				_						
				-								
	_											
											· · ·	

П	MC		_	t Bo	•						Boring	No.: B- 21
	VIC		les	t Bo	ring	LO	g				Sheet	
		me: Ba	arnhar	t Park								t No.: 911-007
Clien												Start 12-9-04
Drille												inish
			Geo P	robe								epth: 4ft
		ation										To Water:
	dinate							_				levation:
			Fried								Hole D	iameter:
Moni				(s): PI	<u>D</u>				т			
		Blows Or	Sample	<u>r </u>		<u> </u>			Classification Of Ma	aterial and - 35-50)%	
(f)		-2"	18.	18"-24"	ve.	mer	ined		m - medium	some - 20-	35%	Domarka
Depth (ft)	90	6"-12"	12"-18"	18".	Recovery (ft)	Instrument Reading	Sample Retained		c - coarse	little - 10-20 trace - 0-10		Remarks
0-4'					2'3"	0	_		Dark brown coarse san			
0-4					25				material (wood fragmer			
									gravel.	,		
						0		1'	Light brown medium-coa			
									little gravel and trace	e organio	s.	
				_					EOB = 4 f	£4		
									EOD - 41	it		
							_					
		_										
						_						
		_										
		_										
		_										
				-	-							

П	MS		Tan	t Bo					g No.: B- 22
	MC	<u> </u>	res	T BO	ring	LO	9		t 1 of
Proj€	ect Na	me: B	arnhar	t Park		_			ct No.: 911-007
Clier								Date	Start 12-9-04
Drille									Finish
			Geo F	Probe			_		Depth: 4ft
	ng Loc		:						To Water:
	dinate						_		Elevation:
			Fried					Hole Hole	Diameter:
Moni				(s): Pl	D		,		
		Blows Or	n Sample	er	-			Classification Of Material	
Œ		5	_∞	4	very (nen ing	ple	f - fine and - 35-50% m - medium some - 20-35%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	c - coarse little - 10-20%	Remarks
			<u> </u>	ļ			97 (2	trace - 0-10%	
0-4'			_		2'4"	0_		Medium-coarse brown sand with a little	
								gravel and trace organics.	
								EOB = 4 ft	
			-						
		_							
		_							
-									
						_			
				_					
				_					
\vdash							_		
		_							
						_			
							_		

	MS		_								Boring	No.: B- 23
			res	t Bo	ring	LO	g				Sheet	1 of
		me: Ba									Projec	t No.: 911-007
Clien	t:										Date: S	Start 12-9-04
Drille	r:										F	inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
		ation:	_								Depth	To Water:
	dinate							_			Surf. E	levation:
Logg	ed By	: Cary	Fried	man							Hole D	iameter:
		Instru			D							
		Blows Or	Sample	er_					Classification Of			
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20- little - 10-20 trace - 0-10	35% 0%	Remarks
0-4'					2'5"	0			Dark brown coarse s	and with a	little	
									organio	s.		
									Madina Francis			
						0		11"	Medium brown sand v	with trace of	ravel.	
		_							EOB = 4	4 ft		
					-							
		_		_		_						
				-			_					
				_								
	_											
					_							
			_	-								
	_			_	-							
			_	_								
			_	-								

	VIS		_								Boring	No.: B- 24
	VI C		Tes	t Bo	rıng	l Fo	g				Sheet	
Proje	ct Na	me: Ba	arnhart	Park								t No.: 911-007
Clien	t:											Start 12-9-04
Drille	r:											inish
Drilli	ng Me	thod:	Geo P	robe							Total D	Depth: 4ft
Borir	ig Loc	ation:									Depth	To Water:
Coor	dinate	s:									Surf. E	levation:
Logg	ed By	: Cary	Friedr	nan							Hole D	iameter:
Moni	toring	Instru	ument	(s): PI	D							
	Ę	Blows Or	Sample	r]				Classification Of		204	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine m - medium c - coarse	and - 35-50 some - 20-3 little - 10-20 trace - 0-10	35% 0%	Remarks
0-41					1'10"				Dark brown coa	arse sand.		
						0		1 1/2"	Inch long	rock		
	-					0		2 1/2"	Concrete (we	athered)		
						0		9"	Brick and slagg	y material.		
	_					0		11"	Coarse light brown s grave		little	
									EOB = 4	4 ft		
	_											
\vdash			_		-							
-												
			_									
					-		_					
							_					
						l						

	MS		Tes	t Ro	rino	1 0	n					No.: B- 25
جے			163	. 50		LO	9				Sheet	1 of
		me: B	arnhar	t Park			_					t No.: 911-007
Clier					_							Start 12-9-04
Drille												inish
			Geo P	robe								Depth: 4ft
	ng Loc		<u> </u>							_		To Water:
	dinate									_		levation:
			Fried		_						Hole D	iameter:
Moni			ument		D							
		Blows Or	n Sample	r i					Classification Of Mater		NO.	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium so	nd - 35-50 ome - 20-3 tle - 10-20 ace - 0-10	35%)%	Remarks
0-4'					3'	0			Coarse brown sa	and.		
								4"	Medium-brown sand with a	a little (gravel.	
								11"	Coarse brown sand with a and trace slaggy ma	-	gravel	
		_						''				
								0.50	Coarse light brown sand gravel.	with a	little	
				_	_			2'5"	graver.			
									EOB = 4 ft			
				_								
					_							
				_								
				_								
			_	_								
				_								
			_	_								
			_									

	MS		T	4 D a	-:						No.: B- 26
	VIC		res	t Bo	ring	LO	9			Sheet	1 of
Proje	ct Na	me: B	arnhar	t Park						Projec	t No.: 911-007
Clien	t: Villa	age of	Sleepy	y Hollo	w					Date: 9	Start 12-9-04
Drille										F	inish
Drilli	ng Me	thod:	Geo P	robe						Total D	Depth: 4ft
		ation									To Water:
	dinate										levation:
		: Cary	Fried	man							iameter:
		Instru			D						
		Blows Or							Classification Of Material		
æ					- -	ent g	, p		f - fine and - 35-		
Depth (ft)	0"-6"	6"-12"	12"-18"	18"-24"	(f)	ume	Sample Retained		m - medium some - 20		Remarks
Dep	0	9	12	18	Recovery (ft)	Instrument Reading	Sa		c - coarse little - 10-, trace - 0-		
0-4'		_			3'	0			Dark brown sand and grav	el.	
	-										
								6"	Inch long rock		
								7"	Dark brown coarse sand with		
									gravel and a little slag-like ma	terial.	
									Coarse brown sand and gravel	Trace	
								1'9"	pebbles.	Trace	
									ревыез.		
				_				2'9"	Black slaggy material.		
								29	33,		
	-			_				2'10"	Coarse brown sand.		
								2 10			
				 							
_				_							
			_								
			_	_							
	_										
			_								

	MS		Tas	t Bo	rina	م ا	~			Į.		No.: B- 27
						LO	9				Sheet	1 of
				t Park						_		t No.: 911-007
		age of	Sleepy	y Hollo	<u> </u>							Start 12-9-04
Drille		4b a d .	Caa F)-obo								inish
			Geo F	robe								Depth: 4ft
	dinate	cation	<u> </u>									To Water:
			Fried	man								iameter:
				(s): Pl	<u>D</u>						noie D	iameter.
William			n Sample		<u> </u>				Classification Of Materia	a!		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium som c - coarse little	- 35-50 ne - 20-3 e - 10-20 e - 0-10	35% 1%	Remarks
0-4'					2'11"				Coarse brown sand with son	ne org	ganics.	
				_					Black slaggy mater	rial.		
								5"			,	
				_	_			7"	Coarse brown sand with a li material.	ttie sia	ag-like	
									Coarse brown sand with so	omo a	ravol	
				_				1'				
								1'7"	Light brown medium-coarse gravel.	e san	d and	
			_	_					EOB = 4 ft			
				_		_						
			_									
	_											
		_										
	_											
			_				-					
	_											

ATTACHMENT B