



**NORTHEASTERN  
ENVIRONMENTAL  
TECHNOLOGIES CORP.**

**COPY**

P.O. BOX 2167 • MALTA, NEW YORK 12020  
518/899-9684

July 29, 2002  
Mr. Anthony Fabiano  
65 Maple Ave.  
Hudson, N.Y. 12534

02-04750

**RE: LIMITED SUBSURFACE INVESTIGATION FAIRVIEW PLAZA HUDSON, N.Y.**

Dear Mr. Fabiano:

The following information outlines the results of the limited subsurface investigation (SI) performed at the above noted site on your behalf. The services performed during the SI were limited to the collection, physical inspection and laboratory analysis of near surface soil and groundwater samples. The SI work is intended to further qualify potential "recognized environmental conditions" identified as a result of NETC's recently completed Phase 1 Environmental Site Assessment. The SI work has been conducted in anticipation of a real property financial transaction involving the site and Hudson River Bank & Trust Co. (HRB&T). A more complete accounting of the activities completed during this SI is included below for consideration.

**METHODOLOGIES**

***Soil Boring Survey***

A total of (17) soil borings were installed in five select areas of the site using direct push field techniques (DPT). Two shallow hand auger test borings were also advanced in areas which precluded the use of the DPT sampling equipment. The specific areas of the site that were evaluated during this SI are illustrated on Figure 1 (**See Appendix A**). The soil borings were installed to depths ranging from  $\pm$  1.0 - 24.0 feet to facilitate the acquisition of near surface soil samples. Each soil boring was completed in a manner to provide a geological log of the subsurface conditions and provide necessary data on the sites soil and / or groundwater condition. The DPT soil borings were installed utilizing NETC's truck mounted Geoprobe 540U sampling system following standard methods / techniques. NETC performed all aspects of the soil boring program and was responsible for detailed logging of all samples.

***Soil Sampling***

A series of macro core soil samples were completed at soil borings GP1 - GP17 following continuous soil sampling methods. The objective of the soil boring services has been to develop a general understanding of the near geology, identify the presence of subsurface petrochemical contamination near select commercial establishments as well as establish the vertical extent of petroleum stained unimproved ground surfaces found to

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exist near the facilities maintenance building. The sampling depths for the soil borings represent the depth at which groundwater and / or drilling refusal was encountered. Hand auger soil samples were advanced to a maximum depth of 1.0 ft. in an effort to characterize the vertical extent of surface stains found to exist adjacent to transforming equipment.

All soil samples were logged on site as they were extracted, labeled and retained for additional field volatile organic compound (VOC) analysis. New unused clear polyethylene terephthalate macro core sample liners (PETG) were used for all soil sampling work. All soil samples collected were examined and described using the Burmister and Unified Soil Classification Systems. In compliance with ASTM methods, the samples were labeled with the following information: boring number, sample number and depth of sample penetration record.

### ***Soil Gas Analysis***

As noted, this SI has included field headspace soil gas analysis on each soil sample collected from the soil borings. A properly calibrated photo ionization detector (PID - PhotoVac Model 2020) was used for the testing work. Photoionization uses ultraviolet light to ionize many trace compounds (especially organic) and the Model 2020 employs this principal to measure the concentration of trace gasses. In the Model 2020, a chamber adjacent to the ultraviolet light source contains a pair of electrodes. When a positive potential is applied to one electrode, the field created drives any ions in the chamber to the collector electrode where current is measured. Measured current is proportional to the concentration of organic's sampled by the instrument's probe. Useful range of the instrument is from 0.1 to 2,000 ppm. Direct VOC soil gas measurements were obtained from the headspace of each soil sample collected. VOC measurements were recorded on a  $\pm 2.0$  - 4.0 ft. interval. The results of the testing work was used to determine the vertical extent of petrochemical contamination as well as to short list samples for additional laboratory analysis. The results of the PID soil gas analysis are included on the individual boring logs included in **Attachment B**.

Four soil samples, GP-8/S-1A, GP-10/S-1, HA-1 and HA-2 were submitted to Hudson Environmental Services (HES) for analysis via STARS 8021 (GP-8/S-1A), STARS 8021 and 8270 (GP-10/S-1) and EPA Method 8082 (HA-1 and HA-2) testing criteria. The samples selected for analysis represent soils with visual and olfactory indication of soil contamination and / or elevated PID soil gas levels.

### ***Monitoring Well Installation***

Soil borings GP-5, GP-12 and GP-16 were completed with a 1.0-inch schedule 40 PVC monitoring well equipped with 5 ft. of 0.010 inch slotted well screen. The monitoring wells were installed in an effort to facilitate the acquisition of shallow groundwater samples. Each well screen was completed in the upper most groundwater zone. The

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general details for the soil boring and monitoring wells installed during this work are listed for consideration.

<u>Boring No.</u>	<u>Depth (ft.)</u>	<u>Well No.</u>	<u>Screen Interval (ft.)</u>
GP-5	20.0	MW-5	15.0'-20.0'
GP-12	24.0	MW-12	19.0'-24.0'
GP-16	24.0	MW-16	15.0'-20.0'

NETC personnel have performed all aspects of the drilling, monitoring well installation and sample inspection services. Copies of the well completion logs are included in **Attachment C**.

### ***Groundwater Sampling***

On July 16, 17 & 18, 2002 groundwater samples were obtained from locations GP-2, MW-5, MW-12 and MW-16. Groundwater samples from GP-2 and MW-16 were obtained using new bottom filled, check valve PVC bailers. The MW-5 and MW-12 groundwater samples were obtained using the Geoprobe 540U's vacuum volume groundwater sampling system. The samples were then transferred to (2) 40 ml zero head space vials for chemical analysis. All sample containers and preservatives were provided by Hudson Environmental Services (HES). All samples were maintained at a temperature of 4°C by commercially available (pre-frozen) "ice-packs" and appropriate holding and transportation times were followed.

The groundwater samples were submitted to HES for chemical analysis via EPA Method 502.2 testing criteria. Observations have been recorded regarding weather and surrounding air/water/soil conditions, non-aqueous components of water (e.g. "floaters," surface sheens) and other pertinent field conditions. Chain of custody documentation was maintained throughout the transfer and shipment of samples to the laboratory.

### **GEOTECHNICAL FINDINGS**

The field results obtained from the soil boring work identify the unconsolidated deposits as in descending order, brown medium to fine sand, silt, and clay overlaying a dense glaciolacustrine varved clay. Groundwater was encountered at depths ranging from  $\pm 7.0$  feet (i.e., GP-2) to  $\pm 18$  feet (i.e., GP-5, GP-12, and GP-19).

Surface petroleum stained surfaces identified in areas surrounding the facilities maintenance garage (i.e., specifically a 1000 gallon above ground gasoline storage tank and exterior drum storage yard) and below a pole and a pad mounted transformers were found to terminate at depth ranging from  $\pm 0.5 - 3.0$  feet below grade.

PID soil gas levels recorded for the upper 3.0 foot soil horizon at soil borings GP-7 and 8 ranged from 1,000 to 1,600.0 parts per million (ppm). Soil samples

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collected at depths greater than 3.0 feet below grade exhibited background PID soil gas levels. The remaining head space soil gas measurements recorded at soil borings GP-8, GP-10, HA-1 and HA-2 were within the background concentrations established for the site.

No visual or olfactory indications of petroleum contamination were apparent in the soil boring samples collected at GP-1, 2, 3, 4 & 5 (Wash Rite), GP-11 (Maintenance Building), GP-6, GP-12 and GP-13 (Sunoco Station), GP-14, and GP-15 (Fairview Transmission) and GP-16 & GP-17 (Carwash). The headspace soil gas levels documented in the above noted locations were within the background VOC concentrations established for the site. Figures 2, 3, 4 & 5 illustrate the relative locations of the soil borings and monitoring wells installed during this SI (**See Attachment A**).

### **LABORATORY RESULTS**

The groundwater results obtained from HES identified GP-5(MW-5), GP-12(MW-12), and GP-16(MW-16) as free from chemical parameters inherent to EPA Method 502.2. The groundwater sample collect at GP-2 was found to contain low level VOC contamination. The chemicals Vinyl Chloride, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (PERC) were each reported in the groundwater samples at GP-2 at concentrations above the DEC's 6NYCRR Part 703 groundwater quality standards. A copy of the HES water quality report is included in **Attachment D**.

Soil sample GP-10/S-1 and HA-1 & HA-2 were reported unaffected by the petroleum chemical parameters inherent to the STARS Method 8021 & 8270 testing criteria and PCB's via EPA Standard Method 8082, respectively. Conversely, the GP-8/S1A laboratory sample has confirmed the presence of select VOC's inherent to the DEC's STARS Method 8021. The specific chemical parameters and there relative concentrations suggests an aged gasoline source. Non-target petroleum compound outside the DEC STARS 8021 & 8270 testing criteria have also been reported in the soil samples collected at both GP-8 and 10. HES identified the peaks as having a gasoline pattern and a heavy oil pattern respectively. A copy of the HES soil quality report is included in **Attachment E**.

### **CONCLUSION**

The completed SI services performed to date have found the majority of the areas of the site evaluated during this SI to be unaffected by near surface soil and / or groundwater petrochemical contamination.

Surface petroleum soil contamination found to exist at the facilities maintenance building is consistent with the documented exterior material storage practices, refueling activities associated with the gasoline AST and the maintenance of vehicular equipment

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operated at the site. The available soil quality data suggests the petroleum contamination to be localized and limited to the upper  $\pm$  1.0 - 3.0 foot soil horizon. Based on the low permeable soil conditions encountered at the site the documented surface soil contamination is expected to represent a low potential threat to groundwater.

Surface soil samples collected from the areas surrounding the transforming equipment have been found to be unaffected by PCBs. Based on these data the existing transforming equipment is considered a low risk to the sites soil and / or groundwater condition.

No petroleum groundwater contamination has been found to exist within the areas evaluated. Conversely, chlorinated organic contaminants identified in groundwater collected adjacent to the rear entrance of the Wash Rite facility do suggest the release of the dry cleaning chemicals (i.e., PERC). The relative distribution and concentrations of the chlorinated organic compounds suggest an aged release of PERC. Wash Rite's historical use of the facility for dry cleaning purposes is the most likely source of this condition. The areal and vertical extent to which chlorinated organics exist at the site is unsubstantiated. However the lack of chlorinated organics in the balance of the soil and groundwater data assimilated from the site suggest the contaminants of concern may be localized to the immediate areas surrounding the Wash Rite facility.

### **DISCUSSION & RECOMMENDATIONS**

Surface petroleum soil contamination identified during this evaluation should be removed and properly disposed of off site. Based on the services completed to date it is our opinion that the total volume of soil contamination that would be involved in a source removal program of this nature would be  $\pm$  10 cubic yards. Unless otherwise directed end point soil samples should be collected from each of the areas targeted for this work to establish the post soil removal quality conditions. The anticipated cost to complete the soil removal, transportation, disposal, laboratory testing and reporting services is estimated at \$3500 - 4500.

The development of a appropriate remedial action plan for the PERC contamination will necessitate the acquisition of additional soil and groundwater information from the site. It is our opinion that remedial investigation cost of this nature will likely range from \$10,000 - 15,000. Pursuant to your requests, an estimated source removal program cost has been developed for the PERC contamination, assuming a similar near surface soil removal program as outlined above and an assumed volume of soil of  $\pm$ 355 cubic yards. Based on these parameters the anticipated cost to complete the soil removal, transportation, disposal, laboratory testing and regulatory reporting services is estimated at \$75,000 - 100,000.

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As indicated, the need and degree to which the PERC groundwater contamination should be addressed should be based on the results of the pending RI as well as the opinions of the government. At this time, the actual methods and corrective action cost for the remediation of PERC remain unsubstantiated.

It is the understanding of this firm that the exterior drum storage area located adjacent to the maintenance facility has been removed and that floor drains located in the maintenance facility have been permanently sealed.

### **LIMITATIONS & CONDITIONS**

The findings and opinions offered are based on a limited subsurface investigation; no warranties are offered or implied. As with any investigation of a limited scope should additional information become available modification to this report may be appropriate. If you have any questions regarding this matter please contact me at (518) 899-9684.

Pursuant to your verbal directives a copy of this report will be forwarded to the government and the DEC spill hotline will be notified to solicit the governments opinions on the issued identified herein. The NETC organization and I remain available to assist you in this and related matters, as necessary.

Sincerely,  
Northeastern Environmental Technologies Corporation



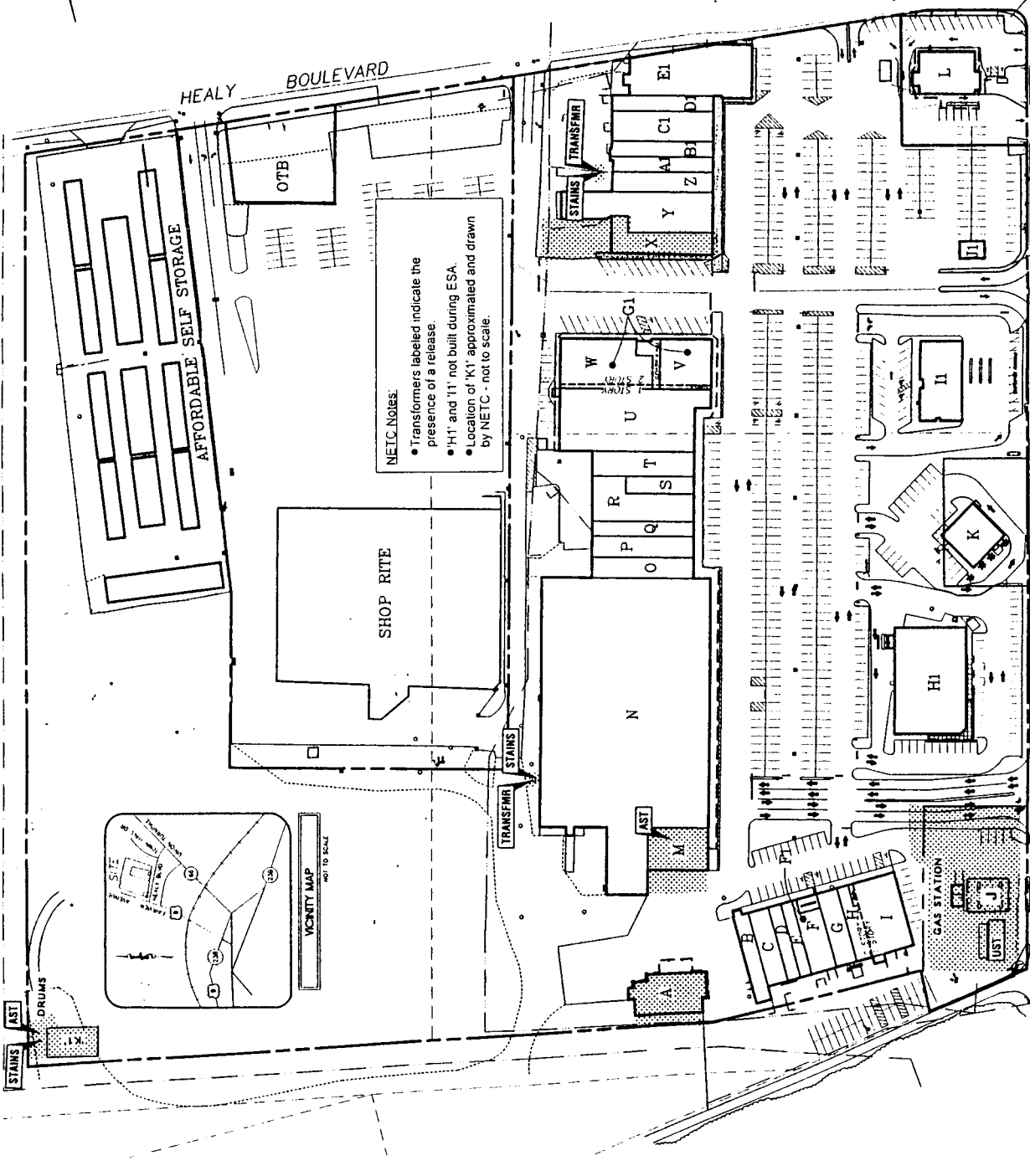
Jeffrey T. Wink, President

JTW/sbs

# ATTACHMENT A

## FIGURES

LEASE LINE TABLE		
SYMBOL	CURRENT LEASE	CURRENT S.F.
A	CAR WASH	4,000 S.F.
B	GEORGE & SON RESTAURANT	1,890 S.F.
C	BOOKLAND	2,250 S.F.
D	DISCOUNT PAING	1,395 S.F.
E	ANDREW'S SPORTSCARDS	1,260 S.F.
F	M & M VIDEO	2,290 S.F.
G	CHINA TOWN RESTAURANT	2,250 S.F.
H	ARMED FORCES RECRUITING	1,620 S.F.
I	VACANT	4,500 S.F.
J	SUMOCO	360 S.F.
K	KEY BANK	2,882 S.F.
L	BURGER KING	3,634 S.F.
M	FAIRVIEW TRANSMISSION & CAR CARE CENTER	3,480 S.F.
N	AMES DEPARTMENT STORE	65,520 S.F.
O	PA'LESS SHOESOURCE	2,500 S.F.
P	CELLULAR ONE	3,382 S.F.
Q	AMERICAN LEATHER FACTORY OUTLET	2,100 S.F.
R	RESNICK'S TROY MATTRESS	4,700 sq.ft.
S	HEADHUNTER FAMILY HAIR CUTTER	1,600 S.F.
T	RAC RENT A CENTER	3,600 S.F.
U	VACANT	11,200 S.F.
V	COCONUTS	3,600 S.F.
W	FAMILY DOLLAR	6,780 S.F.
X	WASH RITE	3,400 S.F.
Y	WD HALLMARK WITH SATELITE POST OFFICE	6,820 S.F.
Z	RADIO SHACK	3,000 S.F.
A1	VACANT	2,175 S.F.
B1	INDEPENDENT LIVING CENTER OF HUDSON VALLEY	2,160 S.F.
C1	FAIRVIEW WINE & SPIRITS	4,320 S.F.
D1	ANGELA'S PIZZA	2,280 S.F.
E1	FAIRVIEW CINEMA 123	8,035 S.F.
F1	2nd Fl. OFFICE SPACE	13,194 S.F.
G1	2nd Fl. ADMINISTRATIVE OFFICES	9,835 S.F.
H1	CVS PHARMACY	10,833 S.F.
I1	HUDSON RIVER BANK & TRUST	4,646 S.F.
J1	TOBACCO DRIVE-THRU	612 S.F.
K1	MAINTANCE BUILDING	3,456 S.F.

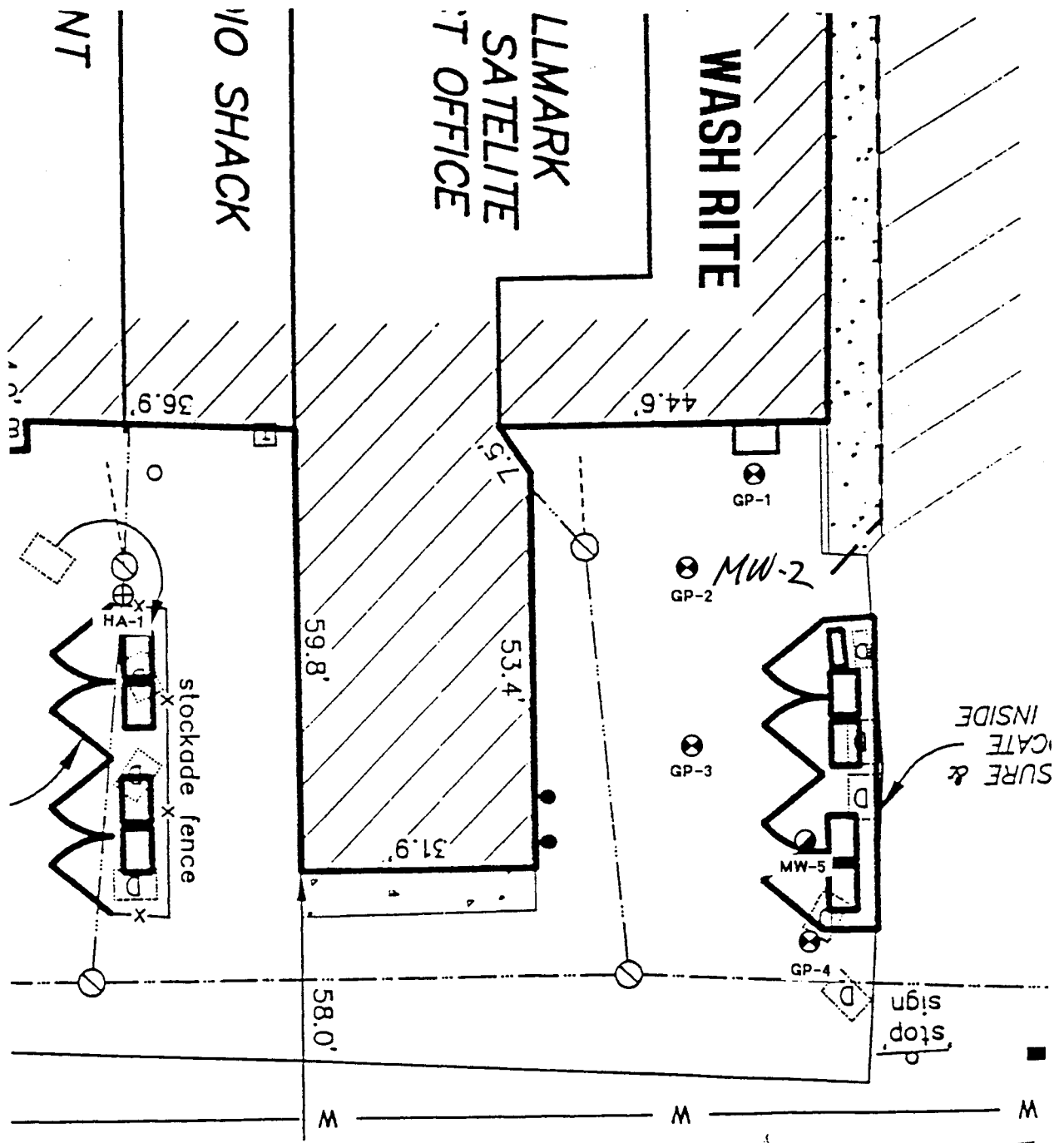


**LEASE MAP FOR**  
**FAIRVIEW PLAZA**  
**FAIRVIEW AVENUE**

**FIGURE 1**

FAIRVIEW AVENUE  
 HIGHWAY ROUTE U.S. 9





**LEGEND**

- ⊗ DPT Soil Boring Location  
GP-2
- ⊕ Hand Auger Soil Boring  
HA-1
- ⊙ DPT Soil Boring /  
MW-5 Monitoring Well Location

**NOTES:**

- Map taken from Hershberg and Hershberg Dwg.: 000411-T1; Dated 2/26/022
- DPT Soil Boring and Well locations are approximated.



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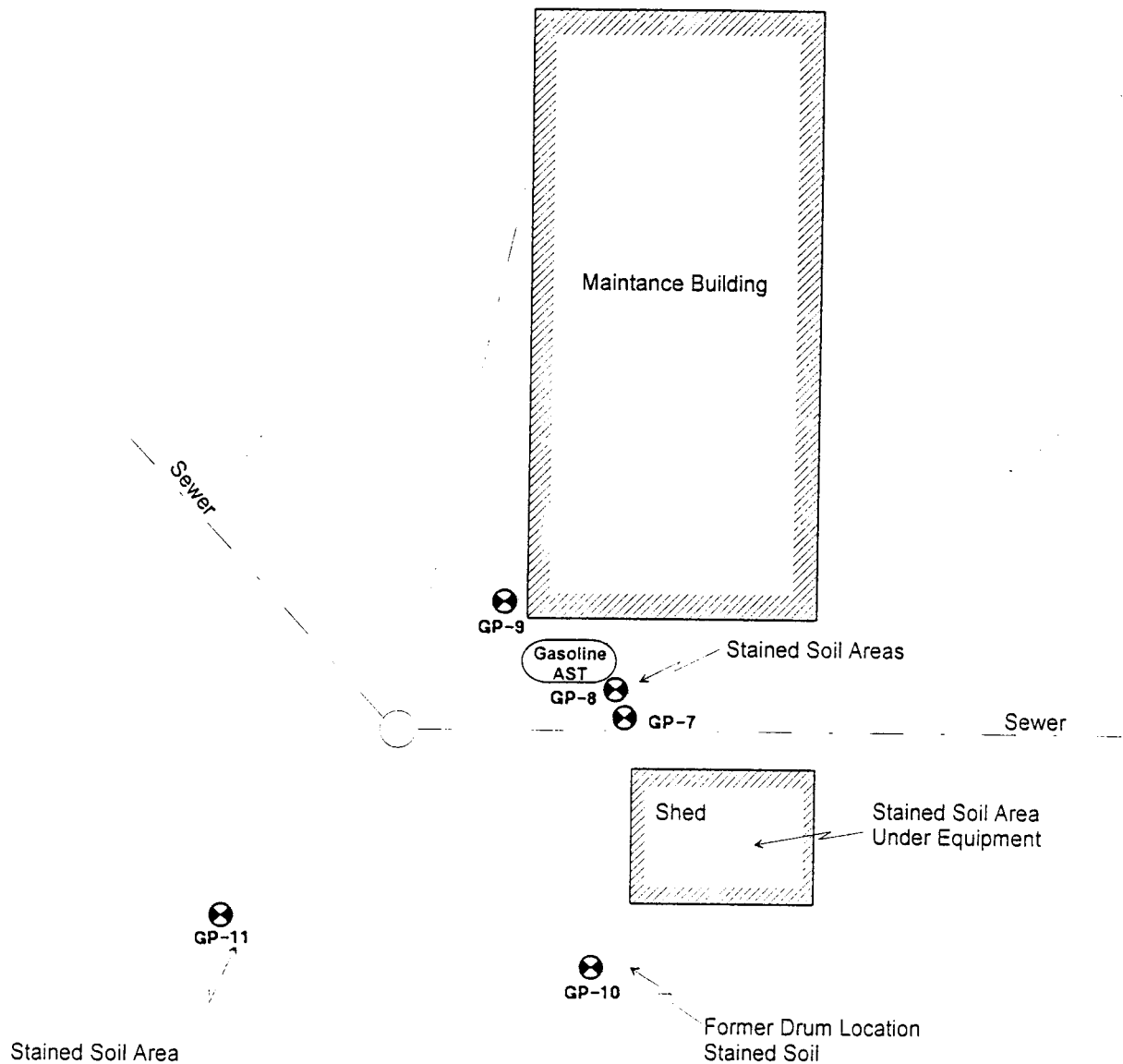
**FIGURE 2: Wash Rite - DPT Soil Boring Location Map**

**PROJECT: 160 Fairview Avenue Hudson, N.Y.**

Project # 02.05244

Scale: Not to Scale

Date: July 16, 2002



**LEGEND**

⊗ DPT Soil Boring Location  
GP-9



**NOTES:**

- Map taken from Hershberg and Hershberg Dwg.: 000411-T1; Dated 2/26/022
- DPT Soil Boring and Well locations are approximated.



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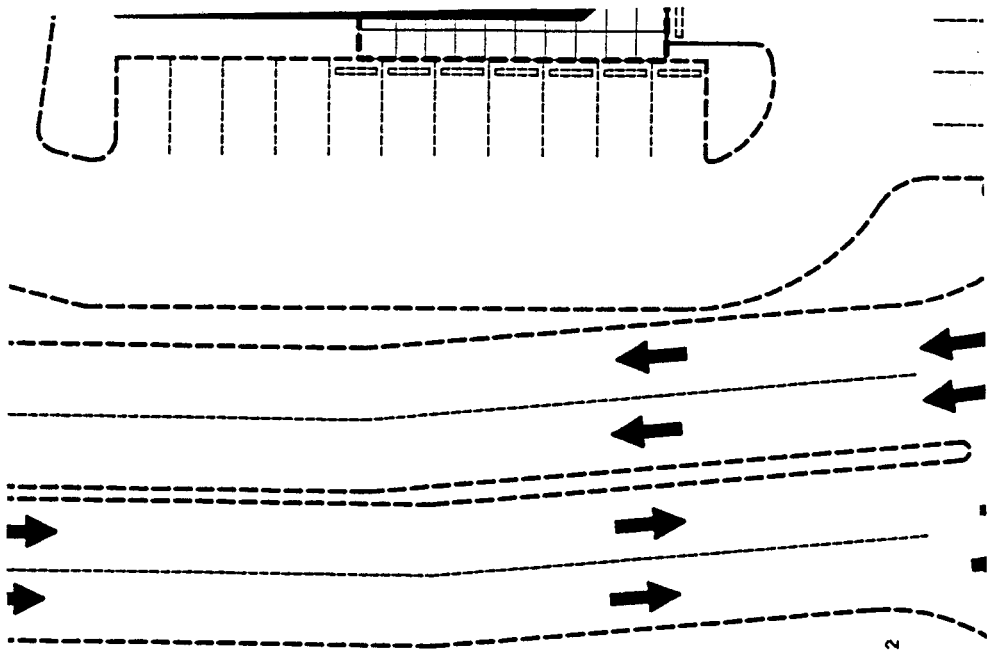
**FIGURE 3: Maintenance Building - DPT Soil Boring Location Map**

**PROJECT: 160 Fairview Avenue Hudson, N.Y.**

Project # 02.05244

Scale: Not to Scale

Date: July 16, 2002



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**FIGURE 4: Sunoco - DPT Soil Boring Location Map**  
**PROJECT: 160 Fairview Avenue Hudson, N.Y.**

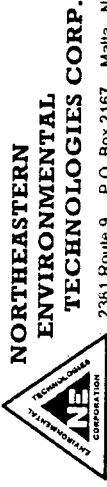
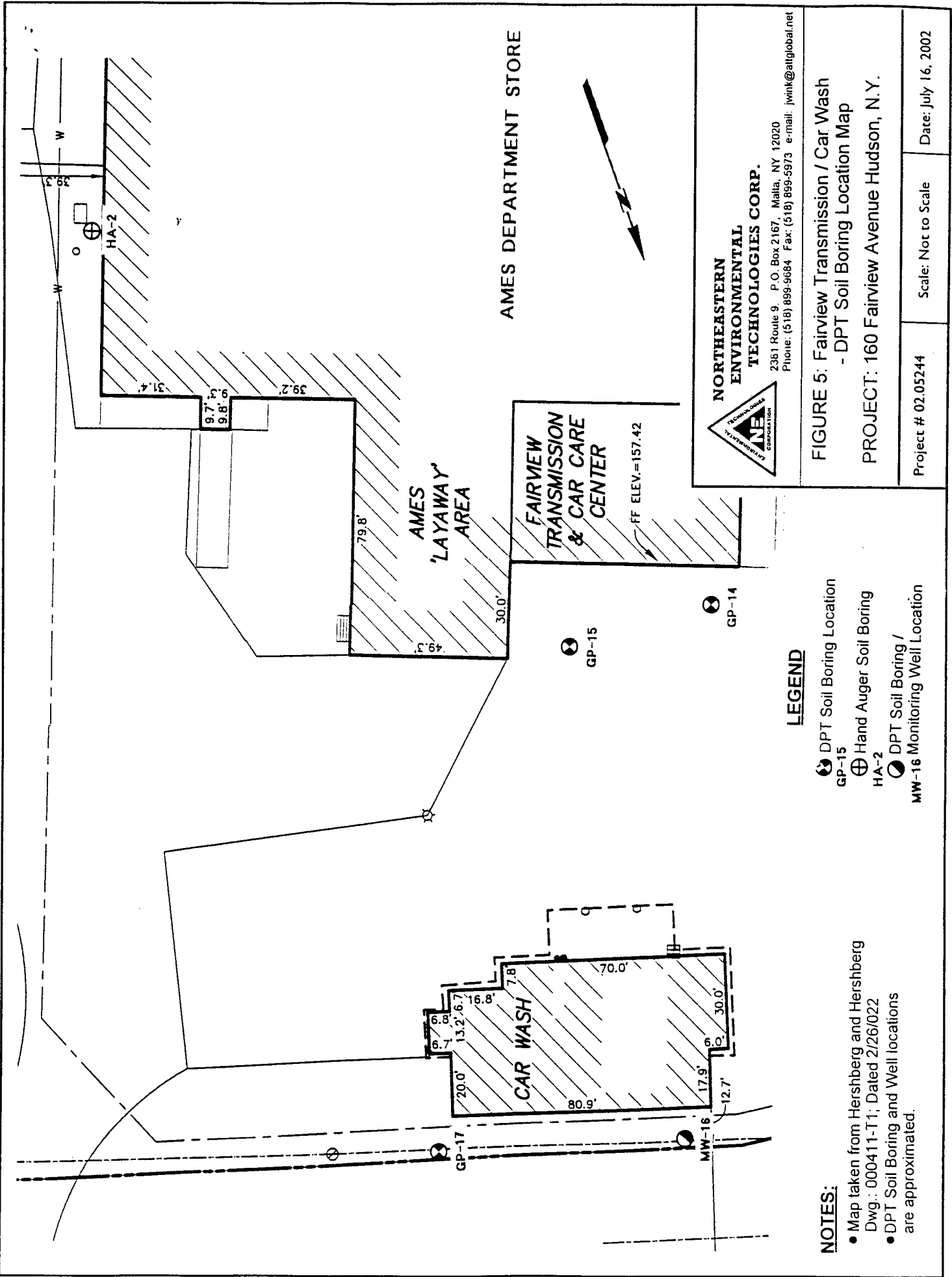
Project # 02.05244 Scale: Not to Scale Date: July 16, 2002

**LEGEND**

- GP-13 DPT Soil Boring Location
- MW-12 DPT Soil Boring / Monitoring Well Location

**NOTES:**

- Map taken from Hershberg and Hershberg Dwg.: 000411-T-1; Dated 2/26/02
- DPT Soil Boring and Well locations are approximated.



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**FIGURE 5: Fairview Transmission / Car Wash**  
 - DPT Soil Boring Location Map  
**PROJECT: 160 Fairview Avenue Hudson, N.Y.**

Project # 02.05244  
 Scale: Not to Scale  
 Date: July 16, 2002

**LEGEND**

- ⊗ DPT Soil Boring Location  
GP-15
- ⊕ Hand Auger Soil Boring  
HA-2
- ⊗ DPT Soil Boring /  
MW-16 Monitoring Well Location

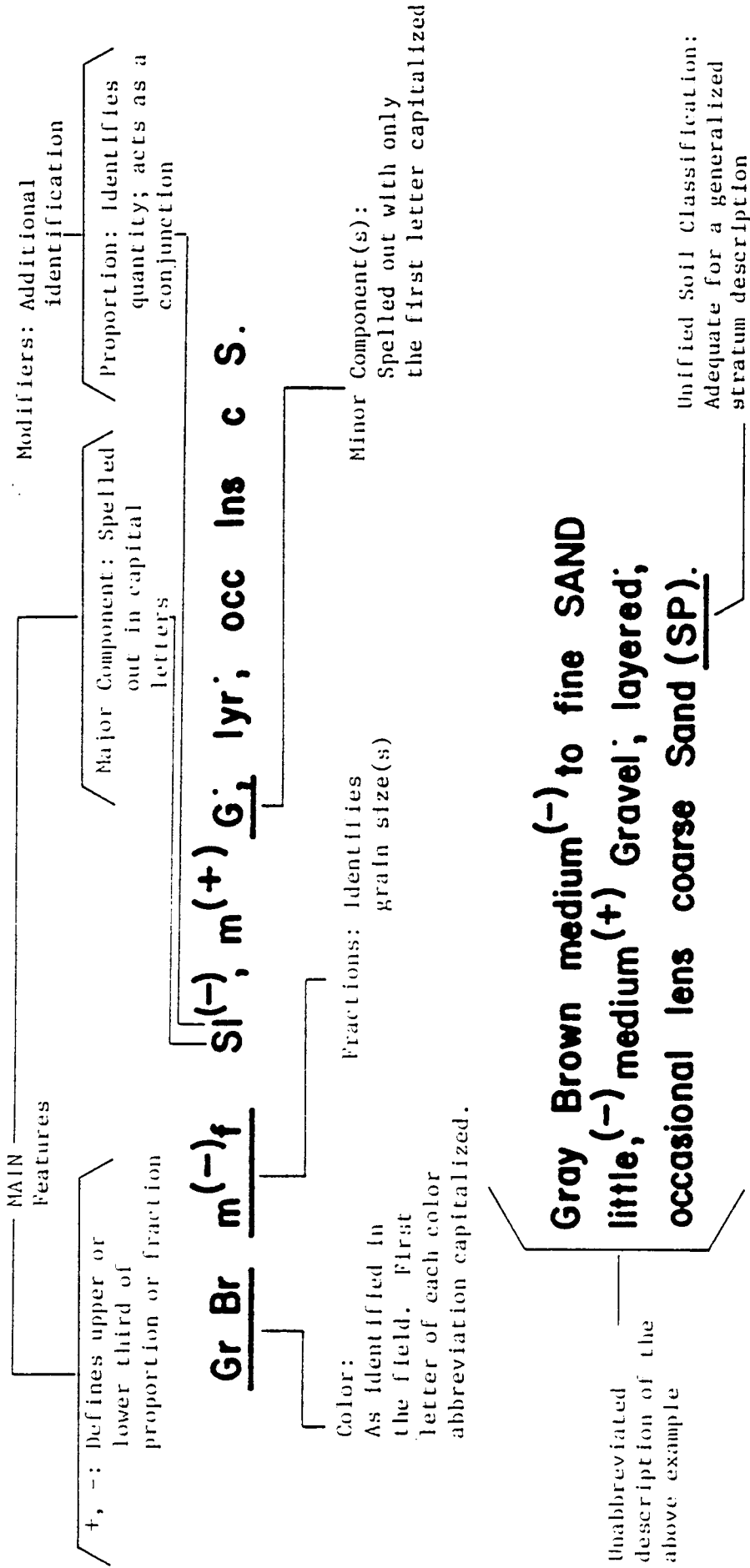
**NOTES:**

- Map taken from Hershberg and Hershberg Dwg.: 000411-T1; Dated 2/26/02
- DPT Soil Boring and Well locations are approximated.

**ATTACHMENT B**

**SOIL BORING LOGS**

# MODIFIED BURMISTER SYSTEM



# VISUAL IDENTIFICATION OF SAMPLES

The samples were identified in accordance with the American Society for Engineering Education System of Definition.

## I. Definition of Soil Components and Fractions

Material	Symbol	Fraction	Sieve Size	Definition
Boulders	Bldr	—	9" +	Material retained on 9" sieve.
Cobbles	Cbl	—	3" to 9"	Material passing the 9" sieve and retained on the 3" sieve.
Gravel	G	coarse (c) medium (m) fine (f)	1" to 3" $\frac{3}{8}$ " to 1" No. 10 to $\frac{3}{8}$ "	Material passing the 3" sieve and retained on the No. 10 sieve.
Sand	S	coarse (c) medium (m) fine (f)	No. 30 to No. 10 No. 60 to No. 30 No. 200 to No. 60	Material passing the No. 10 sieve and retained on the No. 200 sieve.
Silt	\$	—	Passing No. 200 (0.074 mm)	Material passing the No. 200 sieve that is non-plastic in character and exhibits little or no strength when air dried.

### Organic Silt (O\$)

Material passing the No. 200 sieve which exhibits plastic properties within a certain range of moisture content, and exhibits fine granular and organic characteristics.

		Plasticity	Plasticity Index	
Clayey SILT	Cy\$	Slight (SI)	1 to 5	<b>Clay-Soil</b> Material passing the No. 200 sieve which can be made to exhibit plasticity and clay qualities within a certain range of moisture content, and which exhibits considerable strength when air-dried.
SILT & CLAY	\$&C	Low (L)	5 to 10	
CLAY & SILT	C&\$	Medium (M)	10 to 20	
Silty CLAY	\$yC	High (H)	20 to 40	
CLAY	C	Very High (VH)	40 plus	

## II. Definition of Component Proportions

Component	Written	Proportions	Symbol	Percentage Range by Weight *
Principal	CAPITALS	—		50 or more
Minor	Lower Case	and	a.	35 to 50
		some	s.	20 to 35
		little	l.	10 to 20
		trace	t.	1 to 10

\* Minus sign (—) lower limit, plus sign (+) upper limit, no sign middle range.

### III. Glossary of Modifying Abbreviations

Category	Symbol	Term	Symbol	Term	Symbol	Term
A. Borings	U/D	Undisturbed	B	Exploratory	A	Auger
B. Samples	C	Casing	L	Lost	U	Undisturbed
	D	Denison	S	Spoon	W	Wash
	O.E.	Open End				
C. Colors	bk	black	gn	green	wh	white
	bl	blue	or	orange	yw	yellow
	br	brown	rd	red	dk	dark
	gr	gray	tn	tan	lt	light
D. Organic Soils	dec	decayed	o	organic	veg	vegetation
	dec'g	decaying	rts	roots	pt	peat
	lig	lignite	ts	topsoil		
E. Rocks	LS	Limestone	rk	rock	Shst	Schist
	Gns	Gneiss	SS	Sandstone	Sh	Shale
F. Fill and Miscellaneous Materials	bldr (s)	boulder (s)	cbl (s)	cobble(s)	gls	glass
	brk (s)	brick (s)	wd	wood	misc	miscellaneous
	cndr (s)	cinder (s)	dbr	debris	rbl	rubble
G. Miscellaneous Terms	do	ditto	pp	pocket	ref	refusal
	el, El	elevation		penetrometer	sm	small
	fgmt (s)	fragment(s)	P. I.	Plasticity Index	W. L.	water level
	frqt	frequent		pushed	W. H.	weight of hammer
	lrg	large	P	pressed	W. R.	weight of rods
	mtld	mottled		piece (s)		
	no rec	no recovery	pc (s)	recovered		
	pen	penetration	rec or R			
H. Stratified Soils	alt	alternating				
	thk	thick				
	thn	thin				
	w	with				
	prt	parting				
	seam	seam				
	lyr	layer				
	stra	stratum				
	vvd c	varved Clay				
	pkt	pocket				
	lns	lens				
	occ	occasional				
	freq	frequent				

- 0 to 1/16" thickness
- 1/16 to 1/2" thickness
- 1/2 to 12" thickness
- greater than 12" thickness
- alternating seams or layers of sand, silt and clay
- small, erratic deposit, usually less than 1 foot
- lenticular deposit
- one or less per foot of thickness
- more than one per foot of thickness



Table 3.5 Unified Soil Classification

Field Identification Procedures (Excluding particles larger than 3 in. and basing fractions on estimated weights)		Group Symbols	Typical Names	Information Required for Describing Soils	Use grain size curve in identifying the fractions as given under field identification	Laboratory Classification Criteria
<p>Coarse-grained soils</p> <p>More than half of material is larger than No. 200 sieve size</p> <p>(For visual classification, the <math>\frac{1}{2}</math> in. size may be used as equivalent to the No. 4 sieve size)</p>	<p>Graels with (Clean graels (little or no fines))</p> <p>Wide range in grain size and substantial amounts of all intermediate particle sizes</p>	GW	Well graded graels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentages of sand and gravel; maximum size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses	<p>Determine percentages of graels and sand from grain size curve</p> <p>Depends on percentage of fines (fraction smaller than No. 200 sieve size) as follows:</p> <p>Less than 5% GW, GP, SM, SC</p> <p>5% to 12% GM, GC, SM, SC</p> <p>More than 12% GM, GP, SM, SC</p> <p>5% to 12% GM, GC, SM, SC</p> <p>More than 12% GM, GP, SM, SC</p>	<p> <math>C_u = \frac{D_{60}}{D_{10}}</math> Greater than 4  <math>C_G = \frac{D_{60}}{D_{10} \times D_{40}}</math> Between 1 and 3                 </p> <p>Not meeting all gradation requirements for GW</p> <p>                     Afterberg limits below "A" line, or <math>P_f</math> less than 4                      Afterberg limits above "A" line, with <math>P_f</math> greater than 7                 </p> <p> <math>C_u = \frac{D_{60}}{D_{10}}</math> Greater than 6  <math>C_G = \frac{D_{60}}{D_{10} \times D_{40}}</math> Between 1 and 3                 </p> <p>Not meeting all gradation requirements for SW</p> <p>                     Afterberg limits below "A" line or <math>P_f</math> less than 5                      Afterberg limits above "A" line, with <math>P_f</math> greater than 7                 </p>
	<p>Sands with (Sands with appreciable amount of fines)</p> <p>Wide range in grain sizes and substantial amounts of all intermediate particle sizes</p>	GP	Poorly graded graels, gravel-sand mixtures, little or no fines	<p>For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics</p> <p>Example: Silty sand, gravelly; about 20% hard, angular gravel particles 1-in. maximum size; rounded and subangular sand grains coarse to fine, about 15% non-plastic fines with low dry strength; well compacted and moist in place; alluvial sand; (SM)</p>		
<p>Graels with (Sands with appreciable amount of fines)</p> <p>Predominantly one size or a range of sizes with some intermediate sizes missing</p>	GM	Silty graels, poorly graded gravel-sand-silt mixtures	<p>Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition, odour if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses</p> <p>For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions</p> <p>Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)</p>			
<p>(For visual classification, the <math>\frac{1}{2}</math> in. size may be used as equivalent to the No. 4 sieve size)</p> <p>More than half of coarse fraction is larger than No. 4 sieve size</p>	GC	Clayey graels, poorly graded gravel-sand-clay mixtures		<p>                     Comparing soils at equal liquid limit                      Toughness and dry strength increase with increasing plasticity index                 </p>		
<p>Identification Procedures on Fraction Smaller than No. 40 Sieve Size</p> <p>(The No. 200 sieve size is about the smallest particle visible to naked eye)</p>	<p>Dilatancy (reaction to shaking)</p> <p>None to slight</p> <p>Quick to slow</p> <p>None to very slow</p> <p>Slow</p> <p>Slow to none</p> <p>None</p> <p>None to very slow</p> <p>Readily identified by colour, odour, spongy feel and frequently by fibrous texture</p>	ML, CL, OL, MH, CH, OH, FI	<p>Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity</p> <p>Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays</p> <p>Organic silts and organic silts of low plasticity</p> <p>Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts</p> <p>Inorganic clays of high plasticity, fat clays</p> <p>Organic clays of medium to high plasticity</p> <p>Peat and other highly organic soils</p>			
<p>Fine-grained soils</p> <p>More than half of material is larger than No. 200 sieve size</p>	<p>Dilatancy (reaction to shaking)</p> <p>None to slight</p> <p>Quick to slow</p> <p>None to very slow</p> <p>Slow</p> <p>Slow to none</p> <p>None</p> <p>None to very slow</p> <p>Readily identified by colour, odour, spongy feel and frequently by fibrous texture</p>	ML, CL, OL, MH, CH, OH, FI	<p>Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity</p> <p>Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays</p> <p>Organic silts and organic silts of low plasticity</p> <p>Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts</p> <p>Inorganic clays of high plasticity, fat clays</p> <p>Organic clays of medium to high plasticity</p> <p>Peat and other highly organic soils</p>			

From Wagner, 1937.

**Boundary classifications.** Soils possessing characteristics of two groups are designated by combinations of group symbols. For example GW-GC, well graded gravel-sand mixture with clay binder. All sieve sizes on this chart are U.S. standard.

These procedures are to be performed on the minus No. 40 sieve size particles, approximately  $\frac{1}{4}$  in. For field classification purposes, screening is not intended, simply remove by hand the coarse particles that interfere with the tests.

**Dilatancy (Reaction to shaking):**  
 After removing particles larger than No. 40 sieve size, prepare a pat of moist soil with a volume of about one-half cubic inch. Add enough water if necessary to make the soil soft but not sticky. Place the pat in the open palm of one hand and shake horizontally, striking vigorously against the other hand several times. A positive reaction consists of the appearance of water on the surface of the pat which changes to a lively consistency and becomes glossy. When the sample is squeezed between the fingers, the water and gloss disappear from the surface, the pat stiffens and finally it cracks or crumbles. The rapidity of appearance of water during shaking and of its disappearance during squeezing assist in identifying the character of the fines in a soil. Very fine clean sands give the quickest and most distinct reaction whereas a plastic clay has no reaction. Inorganic silts, such as a typical rock flour, show a moderately quick reaction.

**Toughness (Consistency near plastic limit):**  
 After removing particles larger than the No. 40 sieve size, a specimen of soil about one-half inch cube in size, is moulded to the consistency of putty. If too dry, water must be added and if sticky, the specimen should be spread out in a thin layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth surface or between the palms into a thread about one-eighth inch in diameter. The thread is then folded and re-rolled repeatedly. During this manipulation the moisture content is gradually reduced and the specimen stiffens, finally loses its plasticity, and crumbles when the plastic limit is reached. After the thread crumbles, the pieces should be lumped together and a slight kneading action continued until the lump crumbles. The tougher the action near the plastic limit and the stiffer the lump when it finally crumbles, the more potent is the colloidal clay fraction in the soil. Weakness of the thread at the plastic limit and quick loss of coherency of the lump below the plastic limit indicate either inorganic clay or organic clay.

**Dry Strength (Crushing characteristics):**  
 After removing particles larger than No. 40 sieve size, mould a pat of soil to the consistency of putty, adding water if necessary. Allow the pat to dry completely in open, sun or in drying, and then test its strength by breaking and crumbling between the fingers. This strength is a measure of the character and quantity of the colloidal fraction contained in the soil. The dry strength increases with increasing plasticity. High dry strength is characteristic for clays of the CH group. A typical inorganic silt possesses only very slight dry strength. Silty fine sands and silts have about the same slight dry strength, but can be distinguished by the feel when powdering the dried specimen. Fine sand feels gritty whereas a typical silt has the smooth feel of flour.

Soil Characteristics Pertinent to Roads and Airfields

Major Divisions	Letter (1)	Name	Value as Subgrade When Not Subject to Frost Action	Value as Subbase When Not Subject to Frost Action	Value as Base When Not Subject to Frost Action	Potential Frost Action	Compressibility and Expansion	Drainage Characteristics	Compaction Equipment	Unit Dry Weight lb. per cu. ft.	Typical Design Values			
											CBR (2)	Subgrade Modulus k lb. per cu. in.		
COARSE-GRAINED SOILS	GW	Well graded gravels or gravel sand mixtures, little or no fines	Excellent	Excellent	Good	None to very slight	Almost none	Excellent	Crawler type tractor, rubber-tired roller, steel-wheeled roller	125-140	40-80	300-500		
		GP	Poorly graded gravels or gravel sand mixtures, little or no fines	Good	Good	Fair to good	None to very slight	Almost none	Excellent	Crawler type tractor, rubber-tired roller, steel-wheeled roller	110-140	30-60	300-500	
	GM		Silty gravels, gravel sand silt mixtures	Good to excellent	Good	Fair to good	Slight to medium	Very slight	Fair to poor	Rubber-tired roller, sheepfoot roller, close control of moisture	125-145	40-60	300-500	
			UC	Clayey gravels, gravel sand clay mixtures	Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	115-135	20-30	200-500
	FINE-GRAINED SOILS	SW	Well graded sands or gravelly sands, little or no fines	Good	Fair to good	Poor	None to very slight	Almost none	Excellent	Crawler type tractor, rubber-tired roller	110-130	20-40	200-400	
			SP	Poorly graded sands or gravelly sands, little or no fines	Fair to good	Fair	Poor to not suitable	None to very slight	Almost none	Excellent	Crawler type tractor, rubber-tired roller	105-135	10-40	150-400
		SM		Silty sands, sand silt mixtures	Fair to good	Fair to good	Poor	Slight to high	Very slight	Fair to poor	Rubber-tired roller, sheepfoot roller; close control of moisture	120-135	15-40	150-400
				SC	Clayey sands, sand clay mixtures	Fair	Poor to fair	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	100-130	10-20
		HIGHLY ORGANIC SOILS	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Poor to fair	Not suitable	Not suitable	Medium to very high	Slight to medium	Fair to poor	Rubber-tired roller, sheepfoot roller; close control of moisture	90-130	15 or less	100-200
	CL			Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Poor to fair	Not suitable	Not suitable	Medium to high	Medium	Practically impervious	Rubber-tired roller, sheepfoot roller	90-130	15 or less	50-150
OL			Organic silts and organic silt-clays of low plasticity	Poor	Not suitable	Not suitable	Medium to high	Medium to high	Poor	Rubber-tired roller, sheepfoot roller	90-105	5 or less	50-100	
			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	Not suitable	Not suitable	Medium to very high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	80-105	10 or less	50-100
CH	Inorganic clays of medium to high plasticity, organic silts			Poor to fair	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	90-115	15 or less	50-150	
	OH	Organic clays of high plasticity, fat clays	Poor to very poor	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	80-110	5 or less	25-100		
PV		Peat and other highly organic soils	Not suitable	Not suitable	Not suitable	Slight	Very high	Fair to poor	Compaction not practical	---	---	---		

Note: (1) Unit Dry Weights are for compacted soil at optimum moisture content for modified AASHTO compaction effort. Division of CEM and SMI groups into subdivision of d and u are for roads and airfields only. Subdivision is basis of Atterberg limits; suffix d (e.g., GMd) will be used when the liquid limit (L.L.) is 25 or less and the plasticity index is 6 or less; the suffix u will be used otherwise. (2) The maximum value that can be used in design of airfields is, in some cases, limited by gradation and plasticity requirements.

Soil Characteristics Pertinent to Roads and Airfields

Major Divisions	Letter (1)	Name	Value as Subgrade When Not Subject to Frost Action	Value as Subbase When Not Subject to Frost Action	Value as Base When Not Subject to Frost Action	Potential Frost Action	Compressibility and Expansion	Drainage Characteristics	Compaction Equipment	Unit Dry Weight lb. per cu. ft.	Typical Design Values		
											CBR (2)	Subgrade Modulus lb. per cu. in.	
GRAVEL AND GRAVELLY SOILS	GW	Well graded gravels or gravel sand mixtures, little or no fines	Excellent	Excellent	Good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	125-140	40-80	300-500	
	GP	Poody graded gravels or gravel sand mixtures, little or no fines	Good to excellent	Good	Fair to good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	110-140	30-60	300-500	
		Silty gravels, gravel sand silt mixtures	Good to excellent	Good	Fair to good	Slight to medium	Very slight	Fair to poor	Rubber-tired roller, sheepfoot roller, close control of moisture	125-145	40-60	300-500	
	GM	Silty gravels, gravel sand silt mixtures	Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	115-135	20-30	200-500	
			Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	130-145	20-40	200-500	
	COARSE GRAVELLY SOILS	SW	Well graded sands or gravelly sands, little or no fines	Good	Fair to good	Good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	110-130	20-40	200-400
		SP	Poody graded sands or gravelly sands, little or no fines	Fair to good	Fair	Poor to not suitable	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	105-115	10-40	150-400
				Fair to good	Fair	Poor	Slight to high	Very slight	Fair to poor	Rubber-tired roller, sheepfoot roller, close control of moisture	120-135	15-40	150-400
		SM	Silty sands, sand silt mixtures	Fair	Poor to fair	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	100-130	10-20	100-300
				Good	Poor	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepfoot roller	100-135	5-20	100-300
SC		Clayey sands, sand clay mixtures	Poor to fair	Poor	Not suitable	Slight to high	Slight to medium	Fair to poor	Rubber-tired roller, sheepfoot roller, close control of moisture	90-130	15 or less	100-200	
			Poor to fair	Not suitable	Not suitable	Medium to very high	Medium	Practically impervious	Rubber-tired roller, sheepfoot roller	90-130	15 or less	50-150	
FINE GRAVELLY SOILS		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Poor to fair	Not suitable	Not suitable	Medium to very high	Medium to high	Fair to poor	Rubber-tired roller, sheepfoot roller, close control of moisture	90-105	5 or less	50-100
				Poor	Not suitable	Not suitable	Medium to high	Medium to high	Poor	Sheepsfoot roller, rubber-tired roller	80-105	10 or less	50-100
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Poor to fair	Not suitable	Not suitable	Medium to very high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	90-115	15 or less	50-150
	Poor			Not suitable	Not suitable	Medium to high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	80-110	5 or less	25-100	
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty silts, elastic silts	Poor	Not suitable	Not suitable	Medium to very high	Very high	Fair to poor	Compaction not practical	—	—	—	
			Poor to fair	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	—	—	—	
	OH	Organic clays of high plasticity, fat clays	Poor to very poor	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	—	—	—	
			Poor	Not suitable	Not suitable	Slight	Very high	Fair to poor	Compaction not practical	—	—	—	

Note: (1) Unit Dry Weights are for compacted soil at optimum moisture content for modified AASHTO compaction effort. Division of GCM and SKM groups into subdivisions of d and u are for roads and airfields only. Subdivision is based on Atterberg limits, suffix d (i.e., GCMd) will be used when the liquid limit (L) is 25 or less and the plasticity index is 6 or less, the suffix u will be used otherwise.

(2) The maximum value that can be used in design of airfields is, in some cases, limited by gradation and plasticity requirements.

# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-1	
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1		
CLIENT: Anthony Fabiano					JOB NO. 02.05244		
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----		
PURPOSE: Subsurface Investigation					GR. ELEV. ----		
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----	
DRILL RIG: Geoprobe 540U			TYPE	Macro	----	DATE START July 16, 2002	
GROUND WATER LEVEL: NM			DIAM.	2.0"	----	DATE FINISH July 16, 2002	
MEASURING PT.: NM			Sample	Yes	No	DRILLER R. Earl	
DATE: July 16, 2002			Screen	----	----	INSPECTOR T. Scott	
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS	
1.0	S-1	Bkg	SM	Br c-fS s, \$ l, mfG		R=2.8'	
2.0				<u>Brown coarse to fine SAND some. Silt little, medium to fine Gr</u>		No Odor	
3.0				(+/- 2.0 ft)		Gr fS a. \$yC t, fG	Dry
4.0				<u>Gray fine SAND and Silty CLAY trace, fine Gravel</u>			
5.0	S-2	Bkg	SC	Gr fS a. \$yC t, fG; occ Sh frgmts		R=3.0'	
6.0				<u>Gray fine SAND and Silty CLAY trace, fine Gravel; occasional shale fragments</u>		No Odor	
7.0						Damp	
8.0							
9.0	S-3	Bkg	SC	(+/- 8.0 ft)		R=3.9'	
10.0				<u>Gr fS a. \$yC t, fG; occ Gr mtd</u>		No Odor	
11.0				<u>Gray fine SAND and Silty CLAY trace, fine Gravel; occasional Gray mottled</u>		Damp	
12.0							
13.0	S-4	N/A				R=NR	
14.0							
15.0							
16.0							
17.0	S-5	Bkg	CL	(+/- 16.0 ft)		R=4.0'	
18.0				<u>Br Gr vwd C</u>		No Odor	
19.0				<u>Brown Gray varved CLAY</u>		Dry	
20.0				End of Boring @ 20.0 feet			
Groundwater sample not collected							
Soil Boring Completed @ 20.0 feet							

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-2
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	Bailer	sch40	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	0.75"	1.0"	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	Yes	Yes	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	5.0'	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SC	Gravel		R=2.9'
2.0				Br c-fs s, Cy\$ l, mfG		No Odor
3.0				Brown coarse to fine SAND some, Clayey SILT little, medium to fine Gravel		Damp
4.0						
5.0	S-2	Bkg	SC	Gr fS a. \$yC t fG; occ lyr Gr c-fS t, \$ (WET)		R=2.7'
6.0				<u>Gray fine SAND and Silty CLAY trace, fine Gravel; occasional layer Gray coarse to fine SAND trace, Silt</u>		No Odor
7.0						Dry
8.0	End of Boring @ 7.0 feet					
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Collected a Groundwater sample @ 6.5 feet						
Soil Boring Completed @ 7.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-3
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York						SHEET NO. 1 of 1
CLIENT: Anthony Fabiano						JOB NO. 02.05244
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.						M.P. ELEV. ----
PURPOSE: Subsurface Investigation						GR. ELEV. ----
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SC	Gravel		R=3.8'
2.0				Gr mfS a. \$yC t, fG; occ seams Gr c-fS t, \$		No Odor
3.0				<u>Gray medium to fine SAND and Silty CLAY trace, fine Gravel;</u>		Dry
4.0				<u>occasional Gray coarse to fine SAND trace, Silt</u>		
5.0	S-2	Bkg	SC	Gr fS a. \$yC t, fG; occ brk frgmts <span style="float: right;">(+/- 4.0 ft)</span>		R=4.0'
6.0				<u>Gray fine SAND a. Silty CLAY trace, fine Graavel; occasional</u>		No Odor
7.0				<u>brick fragments</u>		Damp
8.0						
9.0	S-3	Bkg	SC	Same as Above		R=1.0'
10.0				End of Boring @ 9.0 feet		No Odor
11.0						WET
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 9.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG					Boring No. GP-4	
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	
MEASURING PT.: NM		Sample	Yes	No	No	
DATE: July 16, 2002		Screen	----	----	----	
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	N/A	N/A	No Recovery		R=NR
2.0				End fo Boring @ 1.0 feet - Refusal		
3.0						
4.0						
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 1.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-5
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	Tube	Sch40	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	0.375"	1.0"	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	Yes	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	5	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SM	Gravel - Br c-fs s, \$ l, mfG		
2.0				<u>Brown coarse to fine SAND some. Silt little. medium to fine Gravel</u>		
3.0			SC	Br fs a. \$yC		
4.0				<u>Brown fine SAND and Silty CLAY</u>		
5.0	S-2	Bkg	SC	Gr fs a. \$yC t, fG		R=3.0'
6.0				<u>Gray fine SAND and Silty CLAY trace, fine Gravel</u>		No Odor
7.0						Dry to Damp
8.0						
9.0	S-3	Bkg	SC	Same as above		R=4.0'
10.0						No Odor
11.0						Damp
12.0						
13.0	S-4	N/A	SC	Gr Dk Gr mtd Rd fs a. \$yC <span style="float: right;">(+/- 8.0 ft)</span>		R=3.8'
14.0				<u>Gray Dark Gray mottled Red fine SAND and Silty CLAY</u>		No Odor
15.0						Damp
16.0						
17.0	S-5	Bkg	SC	Same as above		R=4.0'
18.0						No Odor
19.0			CL	Br vvd C <span style="float: right;">(+/- 18.0 ft)</span>		Damp to Dry
20.0				<u>Brown varved CLAY</u>		
Collected a Groundwater sample @ 18.0 feet						
Soil Boring Completed @ 20.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-6
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SC	Asphalt		R=2.5'
2.0				Br Gr fS a. \$ I, \$yC; mtld		No Odor
3.0				Brown Gray fine SAND and Silt little. Silty CLAY; mottled		Dry
4.0						
5.0				End fo Boring @ 4.0 feet		
6.0				Note: Stopped drilling at tenants request - Jay Metz		
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 4.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-7
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. -----	
PURPOSE: Subsurface Investigation					GR. ELEV. -----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM -----
DRILL RIG: Geoprobe 540U		TYPE	Macro	-----	-----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	-----	-----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	-----	-----	-----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	1,075	SM	Gr Gn c-fS s, \$ l, mfG		R=1.0'
2.0				<u>Gray Green coarse to fine SAND some Silt little, medium to fine Gravel</u>		Strong Odor
3.0				End fo Boring @ 1.5 feet - Refusal		Dry
4.0						
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 1.5 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-8
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS	
1.0	S-1A	1,569	SM	Gravel	R=3.5'	
2.0				Gr Gn c-fS s, \$ l, mfG	Strong Odor	
3.0				Gray Green coarsee to fine SAND some, Silt little, fine Gravel	Dry to Damp	
4.0	S-1B	Bkg	SC	Gr mfS a. \$yC t fG (+/- 3.0 ft)		
5.0	S-2	Bkg	CL	Br vvd C (+/- 4.0 ft)	R=4.0'	
6.0				Brown varved CLAY	No Odor	
7.0					Dry	
8.0						
9.0				End of Boring @ 8.0 feet		
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 8.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-9
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	N/A	N/A	No Recovery		R=NR
2.0				End fo Boring @ 1.0 feet - Refusal		
3.0						
4.0						
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 1.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-10
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS	
1.0	S-1	Bkg	GM	Bk Br c-fS s, mfG I, \$	R=1.5'	
2.0				<u>Black Brown coarse to fine SAND some medium to fine Gravel little, Silt</u>	Slight old	
3.0					Petro. Odor	
4.0					Dry	
5.0	S-2	Bkg	SC	Gr mfS a. \$yC	R=4.0'	
6.0				<u>Bray medium to fine SAND and Silty CLAY</u>	No Odor	
7.0					Damp	
8.0			CL	Br vvd C <span style="float: right;">(+/-7.0 FT)</span>		
9.0	S-3	Bkg	CL	<u>Brown varved CLAY</u>	R=4.0'	
10.0				Same as above	No Odor	
11.0					Dry	
12.0						
13.0				End of Boring @ 12.0 feet		
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 12.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-11
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York						SHEET NO. 1 of 1
CLIENT: Anthony Fabiano						JOB NO. 02.05244
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.						M.P. ELEV. ----
PURPOSE: Subsurface Investigation						GR. ELEV. ----
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SC	Gravel - Gr fS a, \$yC t, fG		R=4.0'
2.0				Gray fine SAND and Silty CLAY trace, fine Gravel		No Odor
3.0				Br fS a, \$yC t, fG <span style="float: right;">(+/- 2.5 ft)</span>		Dry
4.0				Brown coarse to fine SAND and Silty CLAY trace, fine Gravel		
5.0				End of Boring @ 4.0 feet		
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 4.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-12		
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 2			
CLIENT: Anthony Fabiano					JOB NO. 02.05244			
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. -----			
PURPOSE: Subsurface Investigation					GR. ELEV. -----			
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM -----		
DRILL RIG: Geoprobe 540U		TYPE	Macro	Tube	Sch40	DATE START July 17, 2002		
GROUND WATER LEVEL: NM		DIAM.	2.0"	0.375"	1.0"	DATE FINISH July 17, 2002		
MEASURING PT.: NM		Sample	Yes	Yes	Yes	DRILLER R. Earl		
DATE: July 16, 2002		Screen	-----	-----	5.0'	INSPECTOR T. Scott		
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS		
1.0	S-1	Bkg	SC	Apshalt		R=4.0'		
2.0				Gr Br mtl'd fS a. \$yC		No Odor		
3.0				<u>Gray Brown mottled fine SAND and Silty CLAY</u>		Damp		
4.0				Same as above		R=4.0'		
5.0	S-2	Bkg	SC	Same as above		No Odor		
6.0				Same as above		Damp		
7.0				Same as above		R=4.0'		
8.0				Same as above		No Odor		
9.0	S-3	Bkg	CL	Br vvd C <span style="float: right;">(+/- 8.0 ft)</span>		R=4.0'		
10.0				Brown Varved CLAY		No Odor		
11.0				Same as above		Damp		
12.0				Same as above		R=4.0'		
13.0	S-4	Bkg	CL	Same as above		No Odor		
14.0				Same as above		Damp		
15.0				Same as above		R=4.0'		
16.0				Same as above		No Odor		
17.0	S-5	Bkg	SC	Br mfS a. \$yC <span style="float: right;">(+/- 15.0 ft)</span>		R=4.0'		
18.0				<u>Brown medium to fine SAND and Silty CLAY</u>		No Odor		
19.0			Same as above		SC	Gr fS a. \$yC <span style="float: right;">(+/- 18.5 ft)</span>		Damp
20.0			<u>Gray fine SAND and Silty CLAY</u>					WET
Collected a Groundwater sample @ 19.0 feet								
Soil Boring Completed @ 24.0 feet								

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>				Boring No. GP-12	
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York				SHEET NO. 2 of 2	
CLIENT: Anthony Fabiano				JOB NO. 02.05244	
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
21.0				Gr fS a. \$yC	R=4.0'
22.0			SC	<u>Gray fine SAND and Silty CLAY</u>	No Odor
23.0	S-6	Bkg	SM	Br fS a. \$; sh frgmts in shoe	(+/- 22.5 ft) WET
24.0				<u>Brown fine SAND and Silt; shale fragments</u>	
25.0				End of Boring @ 24.0 feet	
26.0					
27.0					
28.0					
29.0					
30.0					
31.0					
32.0					
33.0					
34.0					
35.0					
36.0					
37.0					
38.0					
39.0					
40.0					
41.0					
42.0					
Collected a Groundwater sample @ 19.0 feet					
Soil Boring Completed @ 24.0 feet					

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-13
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 17, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 17, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	CL	Asphalt - Br c-fs s, \$		R=4.0'
2.0				<u>Brown coarse to fine SAND some. Silt</u>		No Odor
3.0				Br vvd C mtld Gr <span style="float: right;">(+/- 2.0 ft)</span>		Dry
4.0				<u>Brown Varved CLAY mottled Gray</u>		
5.0	S-2	Bkg	CL	Same as above		R=4.0'
6.0						No Odor
7.0						Dry
8.0						
9.0	S-3	Bkg	CL	Same as above		R=4.0'
10.0						No Odor
11.0						Dry
12.0						
13.0				End of Boring @ 12.0 feet		
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 12.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-14
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 17, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 17, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS	
1.0	S-1	Bkg	SC	Asphalt	R=2.9'	
2.0				Br Gr Gn mtld Gr and Bk mfS a. \$yC	No Odor	
3.0				<u>Brown Gray Green mottled Gray and Black medium to fine SAND and Silty CLAY</u>	Dry	
4.0						
5.0	S-2	Bkg	CL	Br vvd C	R=4.0'	
6.0				<u>Brown varved CLAY</u>	No Odor	
7.0					Dry - Hard	
8.0						
9.0	S-3	Bkg	CL	Same as above	R=4.0'	
10.0					No Odor	
11.0					Dry	
12.0						
13.0				End of Boring @ 12.0 feet		
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 12.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-15
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 17, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 17, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0				Asphalt		R=3.8'
2.0				Br Gr Gn mtld Gr fS a. \$yC		No Odor
3.0	S-1	Bkg	SC	<u>Brown Gray Green mottled Gray fine SAND and Silty CLAY</u>		Dry
4.0						
5.0				Br vvd C mtld Gr (+/- 4.0 FT)		R=4.0'
6.0				<u>Brown Varved CLAY mottled Gray</u>		No Odor
7.0	S-2	Bkg	CL			Dry
8.0						
9.0				Same as above		R=4.0'
10.0						No Odor
11.0	S-3	Bkg	CL			Dry
12.0						Very Hard
13.0				End of Boring @ 12.0 feet		
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 12.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG						Boring No. GP-16
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 2	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	Bailer	Sch40	DATE START July 17, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	0.75"	1.0"	DATE FINISH July 17, 2002
MEASURING PT.: NM		Sample	Yes	Yes	Yes	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	5.0'	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	CL	Aphalt		R=4.0'
2.0				Br vvd C mtld Gr		No Odor
3.0				<u>Brown varved CLAY mottled Gray</u>		Dry
4.0				Same as above		
5.0	S-2	Bkg	CL	Same as above		R=4.0'
6.0						No Odor
7.0						Dry
8.0						
9.0	S-3	Bkg	CL	Br vvd C;occ seams Gr fS a. \$ <span style="float: right;">(+/- 8.0 ft)</span>		R=4.0'
10.0				<u>Brown Varved CLAY: occasional seams Gray fine SAND and Silt</u>		No Odor
11.0						Dry to Damp
12.0						
13.0	S-4	Bkg	CL	Same as above		R=4.0'
14.0						No Odor
15.0						Damp
16.0						
17.0	S-5	Bkg	CL	Same as above		R=4.0'
18.0						No Odor
19.0						Damp
20.0						
Collected a Groundwater sample @ 19.0 feet						
Soil Boring Completed @ 24.0 feet						

# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>				Boring No. GP-16	
<b>PROJECT:</b> Fairview Plaza - 160 Fairview Avenue Greenport, New York				<b>SHEET NO.</b> 2 of 2	
<b>CLIENT:</b> Anthony Fabiano				<b>JOB NO.</b> 02.05244	
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
21.0	S-6	Bkg	CL	Br vvd C;occ seams Gr fS a. \$	R=2.8'
22.0				<u>Brown Varved CLAY; occasional seams Gray fine SAND and Silt</u>	No Odor
23.0					Damp
24.0					
25.0				End of Boring @ 24.0 feet	
26.0					
27.0					
28.0					
29.0					
30.0					
31.0					
32.0					
33.0					
34.0					
35.0					
36.0					
37.0					
38.0					
39.0					
40.0					
41.0					
42.0					
Collected a Groundwater sample @ 19.0 feet					
Soil Boring Completed @ 24.0 feet					

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. GP-17
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Direct Push			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: Geoprobe 540U		TYPE	Macro	----	----	DATE START July 17, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 17, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SC	Grass		R=3.8'
2.0				Br Gr fS a. \$yC mtl'd Gr		No Odor
3.0				Brown Gray fine SAND and Silty CLAY mottled Gray		Dry
4.0						
5.0	S-2	Bkg	CL	Br vvd C (+/- 4.0 FT)		R=4.0'
6.0				Brown Varved CLAY		No Odor
7.0						Dry
8.0						Hard
9.0	End of Boring @ 12.0 feet					
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 12.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. HA-1
<b>PROJECT:</b> Fairview Plaza - 160 Fairview Avenue Greenport, New York						<b>SHEET NO.</b> 1 of 1
<b>CLIENT:</b> Anthony Fabiano						<b>JOB NO.</b> 02.05244
<b>DRILLING CONTRACTOR:</b> Northeastern Environmental Technologies Corp.						<b>M.P. ELEV.</b> ----
<b>PURPOSE:</b> Subsurface Investigation						<b>GR. ELEV.</b> ----
<b>DRILLING METHOD:</b> Hand Auger			<b>Soil Sample</b>	<b>GW Sample</b>	<b>Sample Method</b>	<b>DATUM</b> ----
<b>DRILL RIG:</b> N/A		<b>TYPE</b>	Hand Auger	----	----	<b>DATE START</b> July 16, 2002
<b>GROUND WATER LEVEL:</b> NM		<b>DIAM.</b>	2.0"	----	----	<b>DATE FINISH</b> July 16, 2002
<b>MEASURING PT.:</b> NM		<b>Sample</b>	Yes	No	No	<b>DRILLER</b> R. Earl
<b>DATE:</b> July 16, 2002		<b>Screen</b>	----	----	----	<b>INSPECTOR</b> T. Scott
Depth (inches)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	GM	Br Gr c-fS a.G s, \$		R=6.0"
2.0				<u>Brown Gray coarse to fine SAND and Gravel some. Silt</u>		Slight Odor
3.0				Note: Staining only to 1.0"		Dry
4.0						
5.0						
6.0						
7.0	S-2	Bkg	GM	Same as above		R=6.0"
8.0						No Odor
9.0						Dry
10.0						
11.0						
12.0						
13.0			End of Boring 1.0 feet			
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 1.0 feet						

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

<b>TEST BORING LOG</b>						Boring No. HA-2
PROJECT: Fairview Plaza - 160 Fairview Avenue Greenport, New York					SHEET NO. 1 of 1	
CLIENT: Anthony Fabiano					JOB NO. 02.05244	
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.					M.P. ELEV. ----	
PURPOSE: Subsurface Investigation					GR. ELEV. ----	
DRILLING METHOD: Hand Auger			Soil Sample	GW Sample	Sample Method	DATUM ----
DRILL RIG: N/A		TYPE	Hand Auger	----	----	DATE START July 16, 2002
GROUND WATER LEVEL: NM		DIAM.	2.0"	----	----	DATE FINISH July 16, 2002
MEASURING PT.: NM		Sample	Yes	No	No	DRILLER R. Earl
DATE: July 16, 2002		Screen	----	----	----	INSPECTOR T. Scott
Depth (inches)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION		REMARKS
1.0	S-1	Bkg	SM	Br Bk c-fS s, \$ t, mfG		R=6.0"
2.0				<u>Brown Black coarse to fine SAND some Silt trace, medium to fine Gravel</u>		Slight Odor
3.0				Note: Staining only to 2.0"		Dry
4.0						
5.0						
6.0	S-2	Bkg	SM	(+/- 6.0 inches)		R=6.0"
7.0				Br c-fS s, \$ t, mfG		No Odor
8.0				<u>Brown coarse to fine SAND some, trace medium to fine Gravel</u>		Dry
9.0						
10.0						
11.0			End of Boring 1.0 feet			
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
Groundwater sample not collected						
Soil Boring Completed @ 1.0 feet						

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# ATTACHMENT C

## WELL COMPLETION LOGS



NORTHEASTERN  
ENVIRONMENTAL  
TECHNOLOGIES CORP.

# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

## MONITORING WELL COMPLETION LOG

**WELL NO. MW-5**

**PROJECT:** Fairview Plaza - 160 Fairview Ave. Hudson, N.Y.

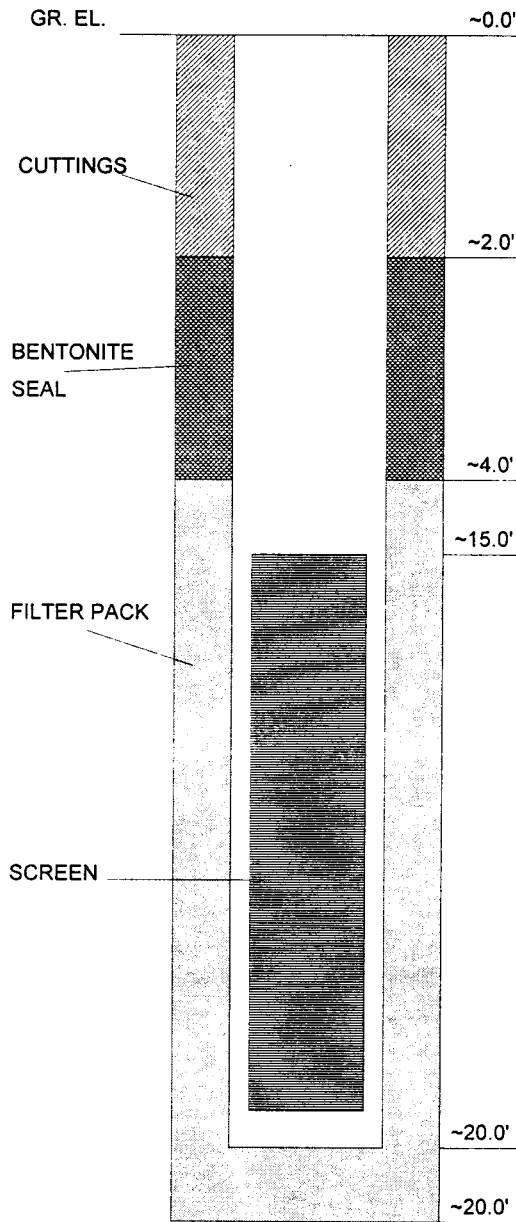
**DATE DRILLED:** July 16, 2002

**CLIENT:** Northeastern Environmental Tech. Corp.

**DATE DEVELOPED:** N/A

**PROJECT NO.** 02.05244

### WELL CONSTRUCTION DETAIL



NOT TO SCALE

**INSPECTOR:** Todd Scott

**DRILLING CONTRACTOR:** Northeastern Environmental Technologies Corp.

**TYPE OF WELL:** Monitoring Well

**STATIC WATER LEVEL:** NM

**DATE:** July 16, 2002

**MEASURING POINT:** Top of PVC

**TOTAL DEPTH OF WELL:** 20.0 feet

**TOTAL DEPTH OF BORING:** 20.0 feet

**DRILLING METHOD:**

**TYPE:** Direct Push

**DIAMETER:** 2.0"

**CASING:** Macro

**SAMPLING METHOD:**

**TYPE:** Macro

**DIAMETER:** 2.0"

**WEIGHT:** N/A

**FALL:** N/A

**INTERVAL:** Every 4.0 feet

**RISER PIPE LEFT IN PLACE:**

**MATERIAL:** Sch 40 PVC

**DIAMETER:** 1.0"

**LENGTH:** 15.0'

**JOINT TYPE:** Flush Thread

**SCREEN:**

**MATERIAL:** Sch 40 PVC

**DIAMETER:** 1.0"

**SLOT SIZE:** Slot 10 (0.010")

**INTERVAL:** 15.0'-20.0'

**STRATEGIC UNIT SCREENED:** Sand, Silt, and Clay

**FILTER PACK:**

**TYPE:** Sand

**GRADE:** #1

**AMOUNT:** 50lbs

**INTERVAL:** 4.0'-20.0'

**SEAL (S):**

**TYPE:** Bentontie

**INTERVAL:** 2.0'-4.0'

**TYPE:** Cuttings

**INTERVAL:** 0.0'-2.0'

**TYPE:**

**INTERVAL:**

**NOTES:**

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Malta, NY 12020

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# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

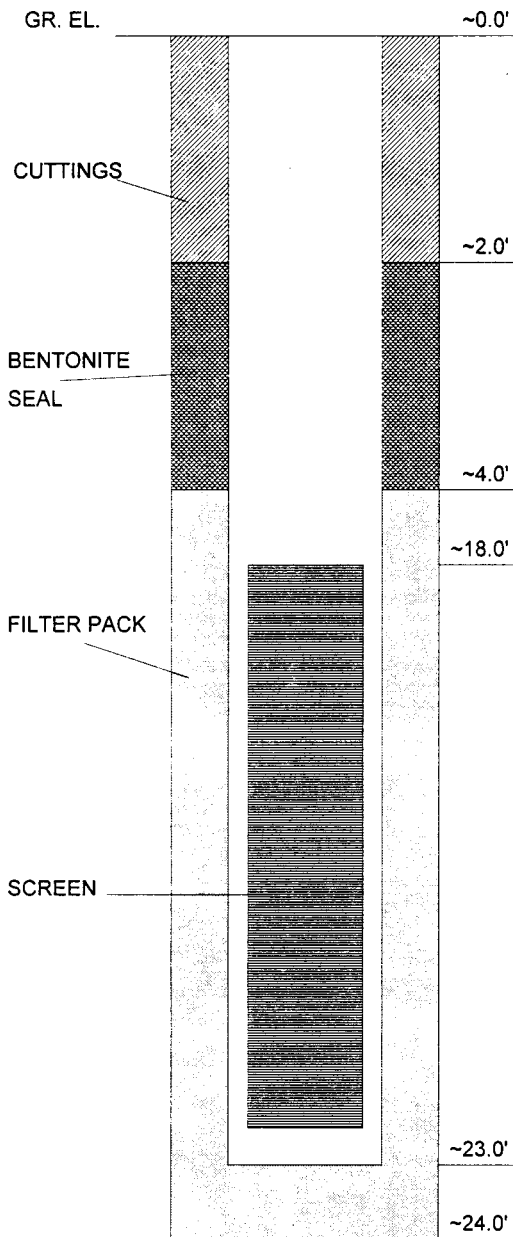
## MONITORING WELL COMPLETION LOG

**WELL NO.**      **MW-12**

**PROJECT:** Fairview Plaza - 160 Fairview Ave. Hudson, N.Y.  
**CLIENT:** Northeastern Environmental Tech. Corp.  
**PROJECT NO.** 02.05244

**DATE DRILLED:** July 16, 2002  
**DATE DEVELOPED:** N/A

**WELL CONSTRUCTION DETAIL**



NOT TO SCALE

**INSPECTOR:** Todd Scott  
**DRILLING CONTRACTOR:** Northeastern Environmental Technologies Corp.

**TYPE OF WELL:** Monitoring Well  
**STATIC WATER LEVEL:** NM      **DATE:** July 17, 2002  
**MEASURING POINT:** Top of PVC  
**TOTAL DEPTH OF WELL:** 23.0 feet  
**TOTAL DEPTH OF BORING:** 24.0 feet

**DRILLING METHOD:**  
**TYPE:** Direct Push      **DIAMETER:** 2.0"  
**CASING:** Macro

**SAMPLING METHOD:**  
**TYPE:** Macro      **DIAMETER:** 2.0"  
**WEIGHT:** N/A      **FALL:** N/A  
**INTERVAL:** Every 4.0 feet

**RISER PIPE LEFT IN PLACE:**  
**MATERIAL:** Sch 40 PVC      **DIAMETER:** 1.0"  
**LENGTH:** 18.0'      **JOINT TYPE:** Flush Thread

**SCREEN:**  
**MATERIAL:** Sch 40 PVC      **DIAMETER:** 1.0"  
**SLOT SIZE:** Slot 10 (0.010")      **INTERVAL:** 18.0'-23.0'  
**STRATEGIC UNIT SCREENED:** Sand, Silt, and Clay

**FILTER PACK:**  
**TYPE:** Sand  
**GRADE:** #1  
**AMOUNT:** 50lbs      **INTERVAL:** 4.0'-23.0'

**SEAL (S):**  
**TYPE:** Bentontie      **INTERVAL:** 2.0'-4.0'  
**TYPE:** Cuttings      **INTERVAL:** 0.0'-2.0'  
**TYPE:**      **INTERVAL:**

**NOTES:**

# NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

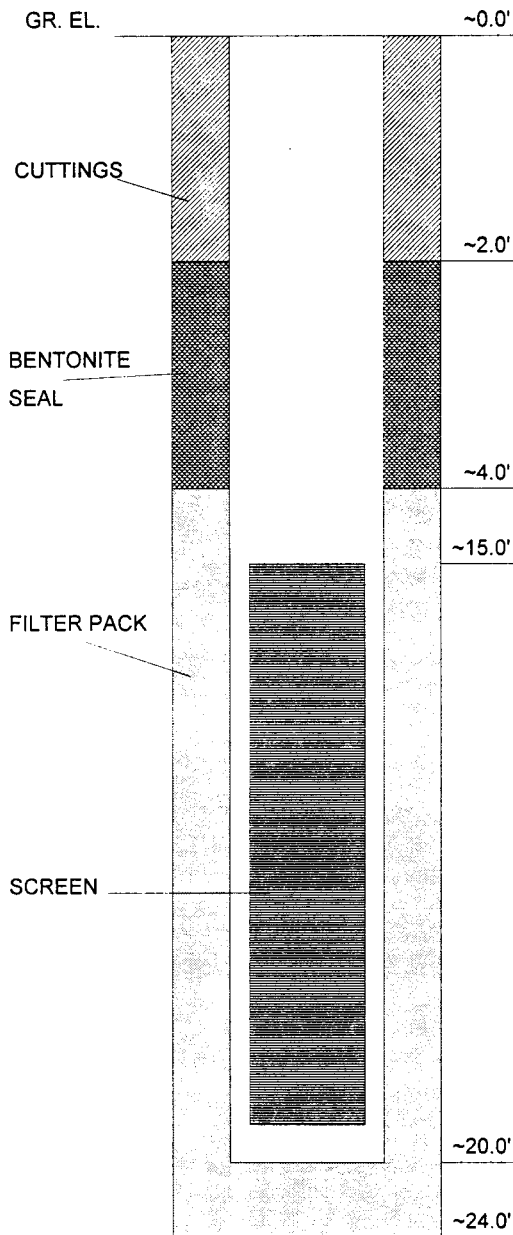
## MONITORING WELL COMPLETION LOG

**WELL NO. MW-16**

**PROJECT:** Fairview Plaza - 160 Fairview Ave. Hudson, N.Y.  
**CLIENT:** Northeastern Environmental Tech. Corp.  
**PROJECT NO.** 02.05244

**DATE DRILLED:** July 17, 2002  
**DATE DEVELOPED:** N/A

### WELL CONSTRUCTION DETAIL



NOT TO SCALE

**INSPECTOR:** Todd Scott  
**DRILLING CONTRACTOR:** Northeastern Environmental Technologies Corp.

**TYPE OF WELL:** Monitoring Well  
**STATIC WATER LEVEL:** NM **DATE:** July 17, 2002  
**MEASURING POINT:** Top of PVC  
**TOTAL DEPTH OF WELL:** 20.0 feet  
**TOTAL DEPTH OF BORING:** 24.0 feet

**DRILLING METHOD:**  
**TYPE:** Direct Push **DIAMETER:** 2.0"  
**CASING:** Macro

**SAMPLING METHOD:**  
**TYPE:** Macro **DIAMETER:** 2.0"  
**WEIGHT:** N/A **FALL:** N/A  
**INTERVAL:** Every 4.0 feet

**RISER PIPE LEFT IN PLACE:**  
**MATERIAL:** Sch 40 PVC **DIAMETER:** 1.0"  
**LENGTH:** 15.0' **JOINT TYPE:** Flush Thread

**SCREEN:**  
**MATERIAL:** Sch 40 PVC **DIAMETER:** 1.0"  
**SLOT SIZE:** Slot 10 (0.010") **INTERVAL:** 15.0'-20.0'  
**STRATEGIC UNIT SCREENED:** Sand, Silt, and Clay

**FILTER PACK:**  
**TYPE:** Sand  
**GRADE:** #1  
**AMOUNT:** 50lbs **INTERVAL:** 4.0'-20.0'

**SEAL (S):**  
**TYPE:** Bentontie **INTERVAL:** 2.0'-4.0'  
**TYPE:** Cuttings **INTERVAL:** 0.0'-2.0'  
**TYPE:** **INTERVAL:**

**NOTES:**

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# ATTACHMENT D

## GROUNDWATER QUALITY REPORT

**GROUNDWATER ANALYTICAL DATA (EPA 502.2)**  
**FAIRVIEW PLAZA**

160 Fairview Avenue Hudson, New York

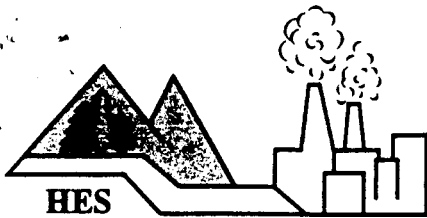
July 16 - 18, 2002

PARAMETER	WATER SAMPLE DESCRIPTION				DEC
	GP-2 (MW-2)	GP-5	GP-12 (MW-12)	GP-16 (MW-16)	
Vinyl Chloride	3.2	ND	ND	ND	2
trans-1,2-Dichloroethene	2.9	ND	ND	ND	5
cis-1,2-Dichloroethene	25	ND	ND	ND	5
Trichloroethene (TCE)	17	ND	ND	ND	5
Tetrachloroethene (PERC)	175	ND	ND	ND	5
Non-Target Peaks	Negative	Negative	Negative	Negative	-----
<b>Total VOCs</b>	<b>223.1</b>	-----	-----	-----	-----

Notes: All concentrations are in ug/l or ppb (parts per billion)

DEC = Groundwater quality standards & guidelines (6NYCRR Part 703)

\* Principal organic compound standard for groundwater is 5 ppb



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ANALYTICAL TEST RESULTS

N.Y.S.D.O.H. Lab ID #11140

CLIENT: Northeastern Environmental Technologies

DATE SAMPLED: 07/16/02

SAMPLE DESCRIPTION: GP-2

TIME SAMPLED: 12:03 pm

MATRIX: Water

DATE SAMPLE RECD: 07/19/02

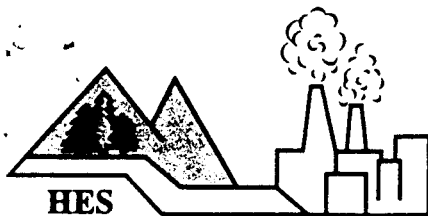
LOCATION: 160 Fairview

TYPE SAMPLE: Grab

H.E.S.#: 020719C01

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA 524.2	<0.5	ug/l	07/19/02
Chloromethane	EPA 524.2	<0.5	ug/l	07/19/02
Vinyl chloride	EPA 524.2	3.2	ug/l	07/19/02
Chloroethane	EPA 524.2	<0.5	ug/l	07/19/02
Bromomethane	EPA 524.2	<0.5	ug/l	07/19/02
Trichlorofluoromethane	EPA 524.2	<0.5	ug/l	07/19/02
1,1-Dichloroethene	EPA 524.2	<0.5	ug/l	07/19/02
Methylene chloride	EPA 524.2	<0.5	ug/l	07/19/02
Methyl-tert-butyl Ether	EPA 524.2	<0.5	ug/l	07/19/02
trans-1,2-Dichloroethene	EPA 524.2	2.9	ug/l	07/19/02
1,1-Dichloroethane	EPA 524.2	<0.5	ug/l	07/19/02
2,2-Dichloropropane	EPA 524.2	<0.5	ug/l	07/19/02
cis-1,2-Dichloroethene	EPA 524.2	25	ug/l	07/19/02
Bromochloromethane	EPA 524.2	<0.5	ug/l	07/19/02
Chloroform	EPA 524.2	<0.5	ug/l	07/19/02
1,1,1-Trichloroethane	EPA 524.2	<0.5	ug/l	07/19/02
1,1-Dichloropropene	EPA 524.2	<0.5	ug/l	07/19/02
Carbon Tetrachloride	EPA 524.2	<0.5	ug/l	07/19/02
Benzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dichloroethane	EPA 524.2	<0.5	ug/l	07/19/02
Trichloroethene	EPA 524.2	17	ug/l	07/19/02
1,2-Dichloropropane	EPA 524.2	<0.5	ug/l	07/19/02
Dibromomethane	EPA 524.2	<0.5	ug/l	07/19/02
Bromodichloromethane	EPA 524.2	<0.5	ug/l	07/19/02
cis-1,3-Dichloropropene	EPA 524.2	<0.5	ug/l	07/19/02
Toluene	EPA 524.2	<0.5	ug/l	07/19/02
trans-1,3-Dichloropropene	EPA 524.2	<0.5	ug/l	07/19/02
1,1,2-Trichloroethane	EPA 524.2	<0.5	ug/l	07/19/02
Tetrachloroethene	EPA 524.2	175	ug/l	07/19/02
1,3-Dichloropropane	EPA 524.2	<0.5	ug/l	07/19/02
Dibromochloromethane	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dibromoethane	EPA 524.2	<0.5	ug/l	07/19/02
Chlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.5	ug/l	07/19/02
Ethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
o-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
Styrene	EPA 524.2	<0.5	ug/l	07/19/02
Bromoform	EPA 524.2	<0.5	ug/l	07/19/02
Isopropylbenzene	EPA 524.2	<0.5	ug/l	07/19/02



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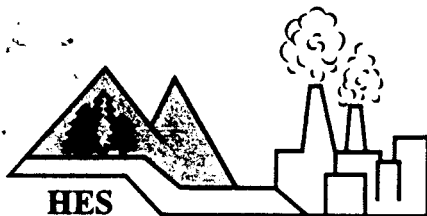
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803  
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 Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp

H.E.S. #: 020719C01 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Bromobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.5	ug/l	07/19/02
1,2,3-Trichloropropane	EPA 524.2	<0.5	ug/l	07/19/02
n-Propylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
2-Chlorotoluene	EPA 524.2	<0.5	ug/l	07/19/02
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	07/19/02
1,3,5-Trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
4-Isopropyltoluene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dibromo-3-chloropropane	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	07/19/02
Naphthalene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Non-Target Peaks		Negative		





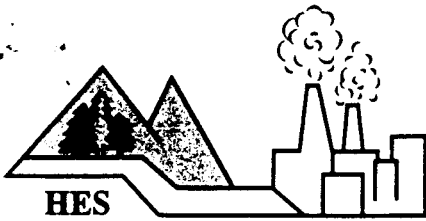
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 Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies  
SAMPLE DESCRIPTION: GP-5  
MATRIX: Water  
LOCATION: 160 Fairview  
H.E.S.#: 020719C02

DATE SAMPLED: 07/16/02  
TIME SAMPLED: 12:50 pm  
DATE SAMPLE RECD: 07/19/02  
TYPE SAMPLE: Grab  
SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	EPA 524.2	<0.5	ug/l	07/19/02
Benzene	EPA 524.2	<0.5	ug/l	07/19/02
Trichloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Toluene	EPA 524.2	<0.5	ug/l	07/19/02
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Chlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Ethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
o-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
Styrene	EPA 524.2	<0.5	ug/l	07/19/02
Isopropylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Propylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
Bromobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
2-Chlorotouene	EPA 524.2	<0.5	ug/l	07/19/02
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	07/19/02
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	07/19/02
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	07/19/02
Naphthalene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Non-Target Peaks		Negative		



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Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies

SAMPLE DESCRIPTION: GP-12

MATRIX: Water

LOCATION: 160 Fairview

H.E.S.#: 020719C06

DATE SAMPLED: 07/17/02

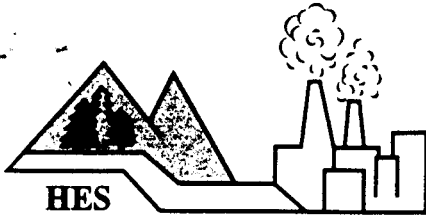
TIME SAMPLED: 10:25 am

DATE SAMPLE RECD: 07/19/02

TYPE SAMPLE: Grab

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	EPA 524.2	<0.5	ug/l	07/19/02
Benzene	EPA 524.2	<0.5	ug/l	07/19/02
Trichloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Toluene	EPA 524.2	<0.5	ug/l	07/19/02
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Chlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Ethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
o-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
Styrene	EPA 524.2	<0.5	ug/l	07/19/02
Isopropylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Propylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
Bromobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
2-Chlorotouene	EPA 524.2	<0.5	ug/l	07/19/02
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	07/19/02
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	07/19/02
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	07/19/02
Naphthalene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Non-Target Peaks		Negative		



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CLIENT: Northeastern Environmental Technologies  
SAMPLE DESCRIPTION: GP-16  
MATRIX: Water  
LOCATION: 160 Fairview  
H.E.S.#: 020719C08

DATE SAMPLED: 07/18/02  
TIME SAMPLED: 2:25 pm  
DATE SAMPLE RECD: 07/19/02  
TYPE SAMPLE: Grab  
SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	EPA 524.2	<0.5	ug/l	07/19/02
Benzene	EPA 524.2	<0.5	ug/l	07/19/02
Trichloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Toluene	EPA 524.2	<0.5	ug/l	07/19/02
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	07/19/02
Chlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Ethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
o-Xylene	EPA 524.2	<0.5	ug/l	07/19/02
Styrene	EPA 524.2	<0.5	ug/l	07/19/02
Isopropylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Propylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
Bromobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
2-Chlorotouene	EPA 524.2	<0.5	ug/l	07/19/02
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	07/19/02
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	07/19/02
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
n-Butylbenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	07/19/02
Naphthalene	EPA 524.2	<0.5	ug/l	07/19/02
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	07/19/02

Non-Target Peaks

Negative

All soil on a dry weight basis.

Approval By: *ML Henry*

Date: 7/30/02

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

# ATTACHMENT E

## SOIL QUALITY REPORT

**SOIL ANALYTICAL DATA (STARS 8021 / 8270)**  
**FAIRVIEW PLAZA**

160 Fairview Avenue Hudson, N.Y.

July 16, 2002

PARAMETER	SOIL SAMPLE DESCRIPTION		DEC
	GP-8/S-1A	GP-10/S-1	
MTBE	<5.4	<5.4	1000
Benzene	9.6	<5.4	60
Toluene	12	<5.4	1500
Ethylbenzene	49	<5.4	5500
m-Xylene / p-Xylene	188	<5.4	1200
o-Xylene	122	<5.4	1200
Isopropylbenzene	<5.4	<5.4	-----*
n-Propylbenzene	<5.4	<5.4	-----*
1,3,5- Trimethylbenzene	1359	<5.4	-----*
tert-Butylbenzene	<5.4	<5.4	-----*
1,2,4- Trimethylbenzene	418	<5.4	-----*
sec-Butylbenzene	<5.4	<5.4	-----*
p-Isopropyltoluene	992	<5.4	-----*
n-Butylbenzene	<5.4	<5.4	-----*
<b>Total VOC's</b>	<b>3149.6</b>	<b>-----</b>	<b>10000*</b>
Naphthalene	NA	<3,548	13000
Acenaphthene	NA	<3,548	50,000*
Fluorene	NA	<3,548	50,000*
Phenanthrene	NA	<3,548	50,000*
Anthracene	NA	<3,548	50,000*
Fluoranthene	NA	<3,548	50,000*
Pyrene	NA	<3,548	50,000*
Benzo(a)anthracene	NA	<3,548	224 or MDL
Chrysene	NA	<3,548	400
Benzo(b)fluoranthene	NA	<3,548	1100
Benzo(k)fluoranthene	NA	<3,548	1100
Benzo(a)pyrene	NA	<3,548	61 or MDL
Indeno(1,2,3-cd)pyrene	NA	<3,548	3200
Dibenz(a,h)anthracene	NA	<3,548	14 or MDL
Benzo(g,h,i)perylene	NA	<3,548	50,000*
<b>Total SVOCs</b>	<b>NA</b>	<b>-----</b>	<b>500,000</b>
Non-target peaks	Positive**	Positive***	-----
<b>Total VOC &amp; SVOC</b>	<b>3149.6</b>	<b>-----</b>	

Notes: All concentrations are in ug/kg or ppb (parts per billion)

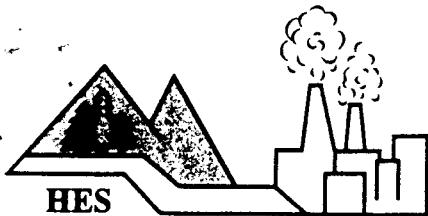
DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.

\*= as per TAGM #4046: Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm

NA= Not analyzed

\*\*= HES Identified as a Gasoline Pattern

\*\*\*= HES Identified as a Heavy Oil Pattern



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CLIENT: Northeastern Environmental Technologies

DATE SAMPLED: 07/16/02

SAMPLE DESCRIPTION: GP-8/S-1A

TIME SAMPLED: 2:45 pm

MATRIX: Soil

DATE SAMPLE RECD: 07/19/02

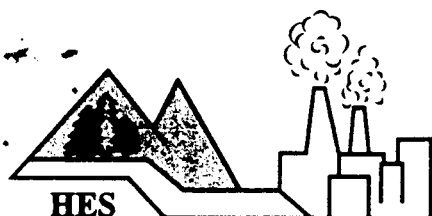
LOCATION: 160 Fairview

TYPE SAMPLE: Composite

H.E.S.#: 020719C03

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8021B	<5.4	ug/kg	07/22/02
Benzene	SW846-8021B	9.6	ug/kg	07/22/02
Toluene	SW846-8021B	12	ug/kg	07/22/02
Ethylbenzene	SW846-8021B	49	ug/kg	07/22/02
m-Xylene\p-Xylene	SW846-8021B	188	ug/kg	07/22/02
o-Xylene	SW846-8021B	122	ug/kg	07/22/02
Isopropylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
n-Propylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
1,3,5-Trimethylbenzene	SW846-8021B	1,359	ug/kg	07/22/02
tert,Butylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
1,2,4-Trimethylbenzene	SW846-8021B	418	ug/kg	07/22/02
sec-Butylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
p-Isopropyltoluene	SW846-8021B	992	ug/kg	07/22/02
n-Butylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
Non-Target Peaks		Positive		
Total Solids	EPA 160.3	92	%	07/19/02



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Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies

DATE SAMPLED: 07/16/02

SAMPLE DESCRIPTION: GP-10/S-1

TIME SAMPLED: 2:30 pm

MATRIX: Soil

DATE SAMPLE RECD: 07/19/02

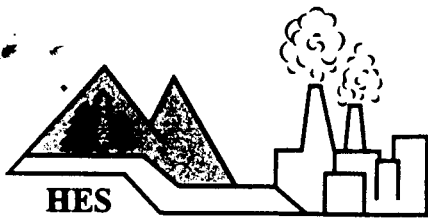
LOCATION: 160 Fairview

TYPE SAMPLE: Composite

H.E.S.#: 020719C04

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8021B	<5.4	ug/kg	07/22/02
Benzene	SW846-8021B	<5.4	ug/kg	07/22/02
Toluene	SW846-8021B	<5.4	ug/kg	07/22/02
Ethylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
m-Xylene\p-Xylene	SW846-8021B	<5.4	ug/kg	07/22/02
o-Xylene	SW846-8021B	<5.4	ug/kg	07/22/02
Isopropylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
n-Propylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
1,3,5-Trimethylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
tert,Butylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
1,2,4-Trimethylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
sec-Butylbenzene	SW846-8021B	<5.4	ug/kg	07/19/02
p-Isopropyltoluene	SW846-8021B	<5.4	ug/kg	07/22/02
n-Butylbenzene	SW846-8021B	<5.4	ug/kg	07/22/02
Naphthalene	SW846-8270C	<3,548	ug/kg	07/29/02
Acenaphthene	SW846-8270C	<3,548	ug/kg	07/29/02
Fluorene	SW846-8270C	<3,548	ug/kg	07/29/02
Phenanthrene	SW846-8270C	<3,548	ug/kg	07/29/02
Anthracene	SW846-8270C	<3,548	ug/kg	07/29/02
Fluoranthene	SW846-8270C	<3,548	ug/kg	07/29/02
Pyrene	SW846-8270C	<3,548	ug/kg	07/29/02
Benzo (a) anthracene	SW846-8270C	<3,548	ug/kg	07/29/02
Chrysene	SW846-8270C	<3,548	ug/kg	07/29/02
Benzo (b) fluoranthene	SW846-8270C	<3,548	ug/kg	07/29/02
Benzo (k) fluoranthene	SW846-8270C	<3,548	ug/kg	07/29/02
Benzo (a) pyrene	SW846-8270C	<3,548	ug/kg	07/29/02
Indeno (1,2,3-CD) pyrene	SW846-8270C	<3,548	ug/kg	07/29/02
Dibenz (a,h) anthracene	SW846-8270C	<3,548	ug/kg	07/29/02
Benzo (g,h,i) perylene	SW846-8270C	<3,548	ug/kg	07/29/02
Non-Target Peaks		Positive*		
*Heavy oil pattern present.				
Total Solids	EPA 160.3	93	%	07/26/02



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Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies

DATE SAMPLED: 07/16/02

SAMPLE DESCRIPTION: HA-1

TIME SAMPLED: 1:00 pm

MATRIX: Soil

DATE SAMPLE RECD: 07/19/02

LOCATION: 160 Fairview

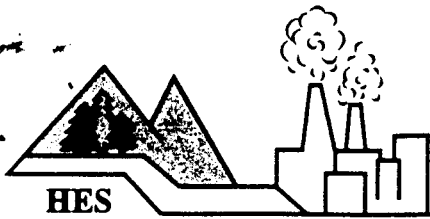
TYPE SAMPLE: Composite

H.E.S.#: 020719C05

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
PCB's	SW846-8082	<0.21	mg/kg	07/26/02
Total Solids	EPA 160.3	94	%	07/26/02





HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies

DATE SAMPLED: 07/16/02

SAMPLE DESCRIPTION: HA-2

TIME SAMPLED: 2:10 pm

MATRIX: Soil

DATE SAMPLE RECD: 07/19/02

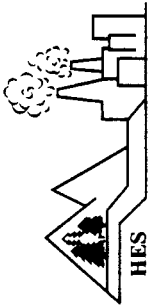
LOCATION: 160 Fairview

TYPE SAMPLE: Composite

H.E.S.#: 020719C07

SAMPLER: T.Scott/NETC

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
PCB's	SW846-8082	<0.20	mg/kg	07/26/02
Total Solids	EPA 160.3	98	%	07/26/02



**HUDSON ENVIRONMENTAL SERVICES, INC.**  
 Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803  
 Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803  
 Phone: 518/747-1060 Fax: 518/747-1062

**CHAIN OF CUSTODY RECORD/  
 Lab Work Request**

Client N/ETC Mail Address \_\_\_\_\_  
 Client Contact/Person # 1000 Deane  
 Project Location 160 FAIRVIEW  
 Purchase Order \_\_\_\_\_ Phone # 897-9684  
 HES Contact \_\_\_\_\_

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A = a.m. P = p.m.	SAMPLE TYPE C = Composite G = Grab			# Conts.	ANALYSIS REQUIRED
				MATRIX	C	G		
C01	160 FAIRVIEW / GP-2	7/16/02	12:30 P	H <sub>2</sub> O		X	2	EPA 502.2
C02	/ GP-5	7/16/02	12:30 P	H <sub>2</sub> O		X	2	EPA 502.2
C03	/ GP-8/5-1A	7/16/02	2:45 P	SOL	X		1	STARS 302.1
C04	/ GP-10/5-1	7/16/02	3:30 P	SOL	X		1	STARS 302.1 & 302.2
C05	/ HA-1	7/16/02	11:20 P	SOL	X		1	308B
C06	/ GP-12	7/17/02	12:30 P	H <sub>2</sub> O		X	2	EPA 502.2
C07	/ <del>GP-12</del> HA-2	7/17/02	2:30 P	SOL	X		1	308B
C08	/ GP-16	7/13/02	2:30 P	H <sub>2</sub> O		X	2	EPA 502.2

Matrix: SL - Sludge, O - Oil, SE - Sediment, SO - Solid, SW - Surface Water, L - Leachate, A - Air, DW - Drinking Water, GW - Ground Water, DS - Drum Solids, DL - Drum Liquids, X - Other, WW - Wa.  
 Special Instructions: \_\_\_\_\_

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	7/13/02	<i>[Signature]</i>	7/13/02
<i>[Signature]</i>	7/17/02	<i>[Signature]</i>	7/19/02
<i>[Signature]</i>	7/17/02	<i>[Signature]</i>	7/19/02
Dispatched by: (Signature)		Method of Shipment:	
Received @ Laboratory: <i>[Signature]</i>		Turnaround Time: 12.45	
Lab Approval:		Date/Time	

**HES Use Only**

Samples Were:  
 1. Shipped or Hand Delivered: Y  
 NOTES: \_\_\_\_\_  
 2. Ambient or Chilled: Y  
 NOTES: \_\_\_\_\_  
 3. Received Broken/Leaking (Improperly Sealed): Y  
 NOTES: \_\_\_\_\_  
 4. Property Preserved: Y  
 NOTES: \_\_\_\_\_  
 5. Received Within Holding Times: Y  
 NOTES: \_\_\_\_\_

COC Tape Was:  
 1. Present on Outer Package: Y  
 2. Unbroken on Outer Package: Y  
 3. Present on Sample: Y  
 4. Unbroken on Sample: Y  
 NOTES: \_\_\_\_\_

COC Record Was:  
 1. Present upon Receipt of Samples: Y  
 NOTES: \_\_\_\_\_

Discrepancies Between Sample Labels and COC Record?  
Y  
 NOTES: \_\_\_\_\_