APPENDIX A GENERIC HEALTH AND SAFETY PLAN FOR THE HIGHLAND PLAZA OFF-SITE AREA

This Health and Safety Plan was developed for use by all personnel involved in the investigation of the Highland Plaza Off-Site Area. This plan provides only general guidance that should be supplemented by the Standby Remedial Contractor's Corporate Health and Safety Plan.

General Health and Safety Guidelines

All work should be conducted in accordance with standard health and safety procedures for hazardous waste site work. All Personnel must have the 40-hour HAZWOPER training certification as required by 29 CFR 1910.120, and maintain this training by taking the annual 8hour Refresher Course. The Standby Remedial Contractor will provide, as necessary, appropriate personal protective equipment (PPE) suitable for working in and around contaminated liquids, wastes and soils. The Standby Remedial Contractor will supply a photoionization detector (PID) for monitoring organic vapors, when necessary, which will be utilized to determine the necessity to upgrade PPE requirements.

It is anticipated that all field work can be performed in Level D personal protective equipment: steel toe shoes/boots, hard hat and latex gloves. The Standby Remedial Contractor will ensure that sufficient personal protective equipment is available for all personnel prior to entering the exclusion zone. All appropriate PPE will be donned, used and removed as described in the 40-hour training course. Air monitoring will be conducted with a PID. An air-purifying respirator must be worn whenever there are sustained organic vapor concentrations of 5 ppm or above in the breathing zone.

Emergency Telephone Numbers

Following is a list of emergency telephone numbers for use by all personnel involved in the investigation:

Emergency Services	911
Kenmore Mercy Hospital	(716) 447-6100
National Poison Control Center	(800) 222-1222
NYSDEC Region 9: Glenn May	(716) 851-7220
NYSDOH Central Office: Sara Bogardus	(518) 402-7860

Medical Assistance

The primary source of medical assistance during the investigation of the Highland Plaza BCP Off-Site Area is the following:

Kenmore Mercy Hospital 2950 Elmwood Avenue Kenmore, New York 14217 Phone: (716) 447-6100

This hospital is located approximately 1.3 miles northwest of the Site. All personnel should be familiar with the location of this hospital and know how to get there from the Site. Directions to the hospital are given on the following pages.

Driving Directions to Hospital



- 1. Start out going west on Highland Parkway toward Colvin Blvd.
- Continue going straight to Delaware Road. Turn left on Delaware Road and travel for 0.03 miles.
- 3. Take the 1st right onto Princeton Blvd and travel for 0.28 miles.
- 4. Turn right onto Delaware Ave (NY-384) and travel for 0.15 miles.
- 5. Take the 3rd left onto Westchester Blvd, which is just past Legion Dive, and travel for 0.35 miles.
- 6. Turn right onto Elmwood Avenue and travel for 0.12 miles.
- 7. Kenmore Mercy Hospital, 2950 Elmwood Avenue, is on the left.

APPENDIX B NEW YORK STATE DEPARTMENT OF HEALTH COMMUNITY AIR MONITORING PLAN

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC and NYSDOH staff.

- <u>Continuous monitoring</u> will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells;
- <u>Periodic monitoring</u> for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well bailing/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

• If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring;

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average;
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown; and
- All 15-minute readings must be recorded and available for NYSDEC and NYSDOH review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedances of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

• If the downwind PM-10 particulate level is 100 micrograms per cubic meter (Φ g/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 Φ g/m³ above the upwind level and provided that no visible dust is migrating from the work area;

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 Φ g/m³ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 Φ g/m³ of the upwind level and in preventing visible dust migration; and
- All readings must be recorded and available for NYSDEC and NYSDOH review.

Special Requirements for Work within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination. Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 Φ g/m³, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 Φ g/m³ or less at the monitoring point.

Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

APPENDIX C SOIL BORING LOGS & WELL CONSTRUCTION DIAGRAMS

2014 LIMITED PHASE II INVESTIGATION AND VAPOR INTRUSION STUDY

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10	S-3			8-12 ft			e sand, little gravel			PID = 0.8	ppm	
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]			1-1.5 ft	Brown CLAY							
2	S-1											
				1.5 - 4 ft	Red-brown CLAY		le sand, trace gravel			PID = 4.7	ppm	
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				0.5-2 ft	Dark Brown stai	ned CLAY					PID = 0.0	ppm	
2	S-1												
				2 - 4 ft	Red-brown CLA	Y, some silt, littl	e sand, trace gravel				PID = 0.0	ppm	
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7			and a standard stand										
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				1.5 - 4 ft	Red-brown CLAY	, some silt, littl	e sand, trace gravel				PID = 1.1	ppm	_
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6	6 S-2 4 - 8 ft Red-brown CLAY, some silt, little sand, little gravel										PID = 0.0	ppm	
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		Π		05 ft	Concrete								
1				.5-2.0 ft	Medium gray CL	AY					PID =2.1	ppm	
						Soil sa	mple from .5 - 2.0 ' fo	r lab and	alysis				
2	S-1												
				2 - 4 ft	Red-brown CLAY	r, some silt, litt	le sand, trace gravel				PID = 0.3	ppm	
3					Damp								
4													
5													
6	S-2			4 - 8 ft	Red-brown CLAY	r, some silt, litt	le sand, little gravel				PID = 1.7	ppm	
					Damp								
7													
8													
						End of b	oring at 8.0 ft						

)	EGMS					2	В	oring No.	SB	-9	
	9.16		15 Briar Hill Orchard Par		27	t t	BORING LOC	j.	S	heet 1 of:	1		
			Phone: 716-						Pr	oject No.:			
Proj	iect Nan	ie:	High Park P	laza					Surfa	ace Elev.:		******	
	Locatio	n:	Colvin & Hig	hland Par	rkway, Tonawanda	i, NY				Datum:			
	Clie	nt:	Buffalo Busi	ness Park	(S	tart Date:	5/13/	/14	
Dri	lling Fir	m:	SJB, Inc						Fir	ish Date:	5/13/	/14	
	Groun	dwa	ater	Depth	Date & Time	Drill Rig:	Geoprobe 6620 DT		1	nspector:	N. Wohla	abaugh	
		Wh	ile Drilling:			Casing:	Macrocore	Rock Core	e:	Undist:			
Be	fore Ca	sing	Removal:			Sampler:	Macrocore	Notes:					
/	After Ca	sing	Removal:			Hammer:	Direct Push						
			(N No	. of blows	to drive sampler 1	2" w/140 lb. ham	mer falling 30" ASTM	D-1586, Stand	ard Penetra	ation Test)			
Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - mediun f - fine	n S - S	and - 35-50% ome - 20-35% little - 10-20% trace - 0-10%	(e.g., relative	N-value, rec moisture, co D, % recover	overy, ore run,				
				05 ft	Concrete								
1				.5-2.0 ft	Dark brown CLA	Y				PID =0.0	ppm		
						Soil sa	mple from .5 - 2.0 ' fo	r lab analysis					
2	S-1												
				2 - 4 ft	Red-brown CLAY	r, some silt, littl	e sand, trace gravel			PID =0.0	ppm		
3					Damp								
			Service approval-consideration										
4										ļ			
5													
6	S-2			4 - 8 ft	Red-brown CLAN	eomo silt littl	e sand, little gravel			PID =0.0	nom		
	0-2			4-0 m	Damp	, some sin, inti	e sana, nue graver				Phill Phill		
7													
8	8												
						End of b	oring at 8.0 ft						

	A' K		EGMS 15 Briar Hill	Pood				6		В	oring No.	SB-	10
	ILLE		Orchard Par		27		SORING LOU	9		S	heet 1 of:	1	
			Phone: 716-							Pr	oject No.:		
Pro	ject Nam	e:	High Park P	laza	nga kalala yang dan San Ingena ang pana ang pan Nga kalala yang pana ang pang pang pang pang pang pa					Surfa	ace Elev.:		
	Locatio	n:	Colvin & Hig	hland Park	way, Tonawanda,	NY					Datum:		
	Clie	nt:	Buffalo Busi	iness Park			ang manang kang ang sakang sakan saka saka saka saka saka saka sak			S	tart Date:	5/13/	14
Dr	illing Fin	m:	SJB, Inc							Fin	ish Date:	5/13/	14
and an other states of	Groun	dwa	ater	Depth	Date & Time	Drill Rig:	Geoprobe 6620 DT			1	nspector:	N. Wohla	baugh
		Wh	ile Drilling:			Casing:	Macrocore	Roc	k Core:		Undist:		
Be	efore Ca	sing	Removal:			Sampler:	Macrocore	Notes:					
	After Ca	sing	Removal:			Direct Push							
		Casing Removal: Hammer: Direct Push (N No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard											
Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	Blows on Sampler per 6" c - coarse a - and s - some f - fine S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey t - trace								COMMENTS N-value, reco moisture, co D, % recover	overy, ore run,
		Π		025 ft	Concrete								
1				.255 ft	Medium gray SA	ND					PID =0.0 p	opm	
2	S-1												
				.5 - 4 ft	Red-brown CLAY	r, some silt, littl	e sand, trace gravel				PID =0.5 p	opm	
3					Damp								
						Soil sample fro	m .5 - 4.0 ' for lab an	alysis					
4							19-10-11-11-11-11-11-11-11-11-11-11-11-11-						
5													
5													
6	S-2		4 - 8 ft Red-brown CLAY, some silt, little sand, little gravel								PID =0.2	maa	
	S-2 4 - 8 rt Red-brown CLAY, some slit, little sand, little gravel Damp												
7		Damp											
8													
						End of bo	ring at 8.0 ft						

	-	A.K		EGMS 15 Briar Hill	Road			BORING LOO	G	B	oring No.	SB-	11
		'LUP		Orchard Par		127	L		9	S	heet 1 of:	1	
				Phone: 716-	445-2105					Pr	oject No.:		
	Pro	ject Nan	ie:	High Park P	laza					Surf	ace Elev.:		
		Locatio	on:	Colvin & Hig	hland Pa	rkway, Tonawanda	, NY				Datum:		
		Clie	nt:	Buffalo Busi	iness Parl	ĸ				S	start Date:	5/13/	14
	Dr	illing Fir	m:	SJB, Inc						Fii	nish Date:	5/13/	14
		Groun	dw	ater	Depth	Date & Time	Drill Rig:	Geoprobe 6620 DT		1	nspector:	N. Wohla	baugh
			Wh	ile Drilling:			Casing:	Macrocore	Rock Core):	Undist:		
	Be	efore Ca	sin	g Removal:			Sampler:	Macrocore	Notes:				
		After Ca.	sin	g Removal:			Hammer:	Direct Push	1				
				(N No	. of blows	to drive sampler 1	2" w/140 lb. ham	mer falling 30" ASTM	D-1586, Stand	ard Penetra	ation Test)		
	Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6''	and - 35-50% ome - 20-35% ittle - 10-20% trace - 0-10%	(e.g., relative	COMMENTS N-value, reco moisture, co D, % recover	overy, pre run,					
					05 ft	Concrete & wood	b						
	1				.5-2.0 ft	Dark brown SILT	, some clay				PID =0.8	ppm	
							Soil sa	mple from .5 - 2.0 ' fo	or lab analysis				
	2	S-1											
					2 - 4 ft	Red-brown CLAY	/, some silt, littl	e sand, trace gravel			PID =0.90	ppm	
	3	1				Damp							
	4		\vdash							a fal alle des de la dela de la dela de		and the parameters in the same	and a strange for process
	5												
and an other states	6	S-2			4 - 8 ft	Red-brown CLAY	, some silt, littl	e sand, little gravel			PID =0.0	opm	
		1				Gravel zone at 5	- 5.5ft.						
	7	Damp											
1944													
	8						End of b	oring at 8.0 ft					
					Second		Ena of ba	ornig at 8.0 Tt			1		

	A'K		EGMS 15 Briar Hill	Read			BORING LOO	2		B	oring No.	SB-	15
	Luc		Orchard Par		127		SORING LOU	5		S	heet 1 of:	1	
			Phone: 716-							Pro	oject No.:		
Pro	ject Nan	e:	High Park P	laza						Surfa	ace Elev.:		
	Locatio	n:	Colvin & Hig	hland Pa	rkway, Tonawanda	a, NY					Datum:		
	Clie	nt:	Buffalo Bus	iness Parl	K	an fallen de service andere de persone d'arrende de refer pe				S	tart Date:	5/13/	/14
Dr	illing Fir	m:	SJB, Inc							Fin	ish Date:	5/13/	/14
	Groun	dwa	ater	Depth	Date & Time	Drill Rig:	Geoprobe 6620 DT			li	nspector:	N. Wohla	abaugh
		Whi	le Drilling:			Casing:	Macrocore	Roci	k Core:		Undist:		
Be	efore Ca	sing	Removal:			Sampler:	Macrocore	Notes:					
	After Ca	sing	Removal:	· · · ·		Hammer:	Direct Push						
and and the second		and a state of	(N No	. of blows	to drive sampler 1	2" w/140 lb. ham	mer falling 30" ASTM	D-1586,	Standar	d Penetra	tion Test)		
Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6''	c - coarse m - mediun f - fine	S - S	Sand, \$ - Silt, G - G	DESCRIPTION Gravel, C - Clay, cly - clay	yey	s - som I - litti	d - 35-50% e - 20-35% e - 10-20% ce - 0-10%	(e.g., relative	COMMENTS N-value, rec moisture, co D, % recover	overy, ore run,
				0 - 1 ft 1-1.5 ft	Asphalt (0 - 6") a Brown CLAY	ina crusnea sto	ne (6 - 12")						
1				1-1.5 π	Brown CLAY						PID + 0.8	ppm	
	S-1												
2	5-1			4 5 4 54	Ded brown CLA		a sand trass group				PID = 0.8	0000	
3				1.5-4 ft	Moist	r, some siit, litti	e sand, trace gravel				PID = 0.6	ppm	
					WOISt								
4													
		\vdash				and a second							
5				-									
-													
6	S-2			4 - 8 ft	Red-brown CLA	Y, some silt, littl	e sand, little gravel				PID = 0.9	ppm	
					Moist	Soil sample fro	m 4 - 8 ' for lab analy	sis					
7													
8]									
				-		End of bo	oring at 12.0 ft						

2015 REMEDIAL INVESTIGATION HIGHLAND PLAZA BCP SITE SITE NO. C915293

EGMS roject Number: lient: HIGHLAND PLAZA			SUBSURFACE BORING LOG	Start Date: 10/14 End Date: 10/14	Boring No. S 16/MW-1
Project Numbe	er:		Geologist: N. Wohlabaugh	Weather: ~50°F, Overcast	+
			Project Manager: N. Wohlabaugh	Northing:	Datum:
ocation (City	, State): Tonav	vanda. New Yo		Easting:	
orill Rig Type:		6620 (Track M		Borehole Diameter (ft.): 0.	25
	ing Device: Ge				
Depth (feet)	Sample ID	Recovery	SOIL DESCRIPTION	USCS Symbo	I PID Screenin (ppm)
0			0 to 4" Acabalt		(ppiii)
U			0 to 4" Asphalt 4" to 12" Crushed Stone		1.5
1			6" to 12" - Soil sample collected for lab analysis		1.1
2	1	44"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		1.1
			Moist and compact		
3					1.1
4					1.1
5					1.1
6	0	42"	Ped Drawn CLAX some Silt little fine Cond year (little Craye)		4.4
6	2	42	Red Brown CLAY , some Silt, little fine Sand, very little Gravel		1.1
7			Damp and compact		1.1
1					1.1
8					1.1
-					
9					1.0
10	3	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		1.0
			Damp and compact		
11					1.0
12					1.0
40					4.0
13					1.0
14	4	48"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel		1.2
			Damp to slightly moist; compact		
15					1.1
16					1.0
17					1.1
18	5	47"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		1.0
10			Slightly moist; less compact		1 1
19					1.1
20					1.0
_,					
21					1.0
22	6	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		0.9
			Slightly moist; less compact to pliable		
23			Drill rods are dry		0.9
			23' to 24' - Soil sample collectd for lab analys	sis	
24			END OF BORING		1.0
				muored to MNA 4	Boring No.
	r: Not encounte	arad	Comments: CO	onverted to MW-1	SB-16

ECMS roject Number: lient: HIGHLAND PLAZA			SUBSURFACE BORING LOG	Start Date: 10/14 End Date: 10/14	Boring No. S 17/MW-2
Project Numbe	r:		Geologist: N. Wohlabaugh	Weather: ~50°F, Overcast	
lient: HIGHL	ND PLAZA		Project Manager: N. Wohlabaugh	Northing:	Datum:
ocation (City,	State): Tonawa	anda, New Yoı	k Driller: R. Steiner	Easting:	
orill Rig Type:	GeoProbe	6620 (Track M		Borehole Diameter (ft.): 0	25
Depth (feet)	Sample ID	Recovery	SOIL DESCRIPTION	USCS Symb	ol PID Screenin (ppm)
0			0 to 6" Asphalt 6" to 12" Crushed Stone		0.8
1			6" to 12" - Soil sample collected for lab analysis		0.7
2	1	45"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel Damp and compact		0.7
3					0.7
4					0.7
5					0.7
6	2	46"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel		0.7
7			Dry to damp; very compact		0.7
8					0.7
9					0.5
10	3	45.5"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		0.5
11			Damp and compact		0.5
12					0.5
13					0.5
14	4	45"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		0.4
15			Damp and compact		0.4
16					0.5
17					0.4
18	5	47"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		0.4
19			Slightly moist; less compact at 19' to 20'		0.4
20					0.4
21					0.4
22	6	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel		0.4
23			Moist; pliable to soft 23' to 24' - Soil sample collectd for lab analysi	is	0.4
24			23.5 to 24' Red brown SILT, some Clay, minor fine Sand, little Grav END OF BORING		0.4
epth to Water	: Not encounte	red	Comments: CO	onverted to MW-2	Boring No

EGN	IS		SUBSURFACE BORING LOG	Start Date: 10/14 End Date: 10/14	Boring No.
Project Numbe	r:		Geologist: N. Wohlabaugh	Weather: ~50°F, Sunny	
Client: HIGHL	ND PLAZA		Project Manager: N. Wohlabaugh	Northing:	Datum:
Location (City,	State): Tonaw	anda, New Yo	k Driller: R. Steiner	Easting:	
Drill Rig Type:		6620 (Track N		Borehole Diameter (ft.): 0.2	5
	ng Device: Geo	Probe Macro-	Core Sampler Type of	Casing:	
Depth (feet)	Sample ID	Recovery	SOIL DESCRIPTION	USCS Symbo	PID Screening (ppm)
0			0 to 6" Asphalt		
			6" to 12" Crushed Stone		0
1			12" to 16" Black stained Sand		0
			12" to 18" - Soil sample collected for lab a	nalysis	
2	1	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gra	vel	0
			Damp and compact		
3					0
4					0
5					0
6	2	45"	Red Brown CLAY, some Silt, little fine Sand, very little Gra	vel	0
			Dry to damp; very compact		
7					0
			7' to 8' - Soil sample collected for lab an	alysis	
8			END OF BORING		0
Depth to Water	: Not encounte	red		n <u>ts</u> : Groundwater not encountered in ed geoprobe boring.	Boring No.

EGN	IS		SUBSU	IRFACE BORING LO	G	Start Date: 10/1 End Date: 10/14		Boring No. S 19/MW-3
Project Numbe	r:		I	Geologist: N. Wohlabaug	h	Weather: ~50		
lient: HIGHL				Project Manager: N. Woh		Northing:		Datum:
	State): Tonaw	anda, New Yor	(Driller: R. Steiner	J	Easting:		
Drill Rig Type:		6620 (Track M					meter (ft.): 0.25	;
	ng Device: Geo	Probe Macro-	Core Sampler		Type of Casing:	÷		
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION			USCS Symbol	PID Screenin (ppm)
0			0 to 6" Asphalt					
			6" to 12" Crushed S					0.4
1			6" to 18" -	Soil sample collected for	r lab analysis			0.3
2	1	42"	Red Brown CLAY , some S Damp and compact	Silt, little fine Sand, very lit	le Gravel			0.3
3			Bamp and compact					0.3
4								0.3
5								0.2
6	2	43.5"	Red Brown CLAY, some S	Silt, little fine Sand, very lit	le Gravel			0.2
			Damp; very compact					
7								0.2
8								0.2
9								0.2
10	3	45.5"	Red Brown CLAY, some S	Silt, little fine Sand, very lit	le Gravel			0.2
11			Damp; very compact					0.2
12								0.2
13								0.1
14	4	46"	Red Brown CLAY , some S Damp to moist; less comp	Silt, very little fine Sand, ve pact	ery little Gravel			0.2
15								0
16								0.1
17								0.1
18	5	46"	Red Brown CLAY , some solightly moist; less compared	Silt, little fine Sand, very lit	le Gravel			0.1
19								0.1
20								0.1
21								0
22	6	46"	Red Brown CLAY, some	Silt, little fine Sand, very lit	le Gravel			0.1
23			Moist; pliable to soft					0
24			23' to 24' - 3 END OF B	Soil sample collected f	or lab analysi	is		0.1
	: Not encounte				Comments: CO	nverted to M	W-3	Boring No

EGN	IS			SUBSURFACE BORING LOC	3	Start Date: 10/15 End Date: 10/15	Boring No. SB-20
Project Numbe	r:			Geologist: N. Wohlabaugh		Weather: ~48°F, Sunny	
Client: HIGHL	ND PLAZA			Project Manager: N. Wohla	baugh	Northing:	Datum:
ocation (City,	State): Tonawa	anda, New Yorl	c	Driller: R. Steiner		Easting:	
Drill Rig Type:	GeoProbe	6620 (Track Mo	ounted)			Borehole Diameter (ft.): 0.25	5
ype of Sampli	ng Device: Geo	Probe Macro-C	ore Sampler		Type of Casing:		
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION		USCS Symbol	PID Screening (ppm)
0			0 to 6"	Asphalt & crushed stone			
							0.2
1			6" to 18"	Dark Brown stained CLAY			2.3
				6" to 18" - Soil sample collected for	r lab analysis		
2	1	45"	Red Brown	CLAY, some Silt, little fine Sand, very little	e Gravel		0.1
			Damp and	compact			
3							0.1
4							1.4
5							0.2
6	2	46"	Red Brown	CLAY, some Silt, little fine Sand, very little	e Gravel		0.8
			Dry to dam	p; compact			
7							0
8				7' to 8' - Soil sample collected for END OF BORING	iad analysis		0
0					Comments: Ground	water not encountered in	U Boring No.
Depth to Water	: Not encounter	red			completed geoprobe		SB-20

EGN	IS			SUBSURFACE BORING LO	G	Start Date: 10/15 End Date: 10/15	Boring No. SB-21
Project Numbe	r:			Geologist: N. Wohlabaugl	n	Weather: ~48°F, Sunny	
Client: HIGHL	AND PLAZA			Project Manager: N. Wohl	abaugh	Northing:	Datum:
Location (City,	State): Tonawa	anda, New Yorl	c	Driller: R. Steiner		Easting:	
Orill Rig Type:	GeoProbe	6620 (Track M	ounted)			Borehole Diameter (ft.): 0.2	5
Type of Sampli	ng Device: Geo	Probe Macro-G	ore Sampler		Type of Casing:		
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION		USCS Symbol	PID Screening (ppm)
0			0 to 8"	Asphalt & crushed stone			
							0
1			8" to 20"	Dark Brown stained CLAY			0
				12" to 20" - Soil sample collected fe	or lab analysis		
2	1	45"	Red Brown	CLAY, some Silt, little fine Sand, very lit	tle Gravel		0
			Damp and	compact			
3							0
4							0
5							0
6	2	44"	Red Brown	CLAY, some Silt, little fine Sand, very lit	tle Gravel		0
			Damp and	compact			
7							0
8				7' to 8' - Soil sample collected for END OF BORING	iad analysis		0
0			1	END OF BURING	Commonts: Ground	water not encountered in	U Boring No.
Depth to Water	: Not encounter	red			completed geoprob		SB-21

EGN	IS			SUBSURFACE BORING LO	G	Start Date: 10/15 End Date: 10/15	Boring No. SB-22
Project Numbe	r:			Geologist: N. Wohlabaugh	1	Weather: ~48°F, Sunny	
Client: HIGHL	AND PLAZA			Project Manager: N. Wohl	abaugh	Northing:	Datum:
Location (City,	State): Tonawa	anda, New Yorl	¢	Driller: R. Steiner		Easting:	
Drill Rig Type:	GeoProbe	6620 (Track Mo	ounted)			Borehole Diameter (ft.): 0.	25
	ng Device: Geo				Type of Casing:		
Depth (feet)	Sample ID	Recovery	•	SOIL DESCRIPTION	,	USCS Symb	ol PID Screening (ppm)
0			0 to 10"	Asphalt & crushed stone			
							0
1			10" to 19"	Dark Brown stained CLAY			0
				6" to 18" - Soil sample collected fo	r lab analysis		
2	1	45"	Red Brown	CLAY, some Silt, little fine Sand, very litt	le Gravel		0
			Damp and c	ompact			
3							0
4							0
5							0
6	2	45.5"	Red Brown	CLAY, some Silt, little fine Sand, very litt	le Gravel		0
			Damp and c	ompact			
7							0
				7' to 8' - Soil sample collected for	lab analysis		
8				END OF BORING	Commentes Care t	under med en en unders al la	0 Desing No
Depth to Water	: Not encounter	red			<u>Comments</u> : Grounds completed geoprobe	water not encountered in e boring.	Boring No.

EGN	IS			SUBSURFACE BORING LO	G	Start Date: End Date:		Boring No.
Project Numbe	r:			Geologist: N. Wohlabaug	h	Weather: ~5	0°F, Overcast	
Client: HIGHLA	AND PLAZA			Project Manager: N. Wohl	abaugh	Northing:		Datum:
Location (City,	State): Tonawa	anda, New Yorl	k	Driller: R. Steiner		Easting:		
Drill Rig Type:	GeoProbe	6620 (Track M	ounted)		I	Borehole Di	ameter (ft.): 0.25	
ype of Sampli	ng Device: Geo	Probe Macro-C	Core Sampler		Type of Casing:		1	
Depth <i>(feet)</i>	Sample ID	Recovery		SOIL DESCRIPTION			USCS Symbol	PID Screening (ppm)
0			0 to 8"	Dark grey coarse SAND				0.3
			8" to 10"	Medium grey Coarse SAND				1.3
1			10" to 17"	Light grey andgular GRAVEL (crushe	ed stone)			0
			17" to 24"	Dark grey stained CLAY Soil sample	collected for lab	analysis		
2	1	40"	Red Brown	CLAY, some Silt, little fine Sand, very lit	tle Gravel			0
			Damp and c	compact				
3								0
4								0
5								1.7
6	2	45.5"	Red Brown	CLAY, some Silt, little fine Sand, very lit	tle Gravel			1.7
			Damp and c	compact				
7				6' to 7' - Soil sample collected for	lab analysis			1.6
8				END OF BORING				0.4
Depth to Water	: Not encounter	red			Comments: Ground completed geoprot		ountered in	Boring No. SB-23

BGM	IS		SUBSURFACE BORING LOG	Start Date: 10/	15 15-Oct	Boring No. S 24/MW-4
roject Numbe	r:		Geologist: N. Wohlabaugh	Weather: ~50		
lient: HIGHL			Project Manager: N. Wohlabaugh	Northing:		Datum:
ocation (City,	State): Tonaw	anda, New Yor		Easting:		
rill Rig Type:	GeoProbe	6620 (Track M	ounted)		ameter (ft.): 0.25	
	ng Device: Geo					
Depth <i>(feet)</i>	Sample ID	Recovery	SOIL DESCRIPTION		USCS Symbol	PID Screenin (ppm)
0			0 to 6" Dark grey angular GRAVEL (crushed stone)t			5.4
			6" to 12" Medium grey angular GRAVEL (crushed stone)			
1			12" to 14" Black coarse SAND (stained) Sample collected for 14" to 24" Black CLAY (stained) some Silt, little fine Sand, very			92.6 13.1
2	1	41"	Gravel; Damp and compact	iittie		13.1
			24" to 48" Red brown CLAY, some Silt, little fine Sand, very little	e Gravel		
3			Damp and compact			0.3
4						0.2
4						0.3
5						9.3
6	2	43"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel			49.6
_			Damp; very compact			
7						64.2
8						39.4
9						48.3
10	3	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel			66.1
10	0	10	Damp; very compact			00.1
11						132.1
12						Not recorde
13						25.8
14	4	43"	Red Brown CLAY, some Silt, very little fine Sand, very little Gravel			66
15			Damp to moist; less compact 14' to 15' - Soil sample collected for lab analysis			203
40						44.0
16						44.2
17						36.5
18	5	44"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel			22.8
19			Slightly moist; less compact at 17.5' to 20'			8.3
20						43.5
21						50.8
22	6	45.5"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel Moist; pliable to soft			22.7
23						8.3
•			23' to 24' - Soil sample collected for lab analysis			
24			END OF BORING	onverted to M		4.4 Boring No.
epth to Water	: Not encounte	red	<u>comments</u> : Co			SB-24

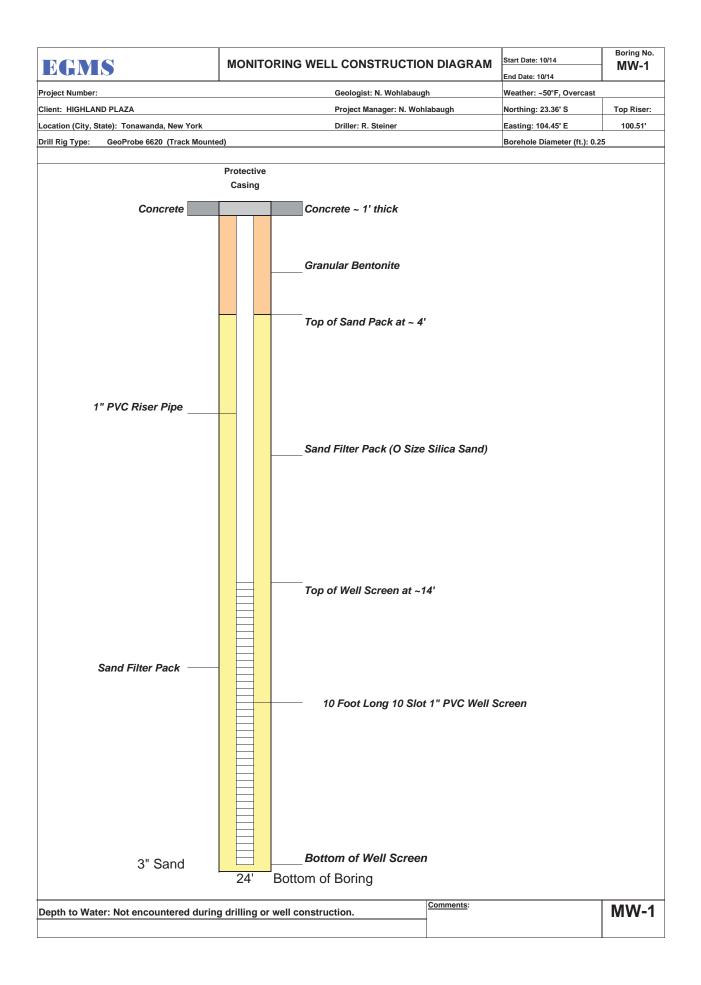
EGN	IS			SUBSURFACE BORING LO	G	Start Date: 10/16	16-Oc	Boring No. SB-25
Project Numbe	:			Geologist: N. Wohlabaugl	n	Weather: ~50°F, Sun	ny	
Client: HIGHLA	ND PLAZA			Project Manager: N. Wohl	abaugh	Northing:		Datum:
Location (City.	State): Tonawa	anda. New York	1	Driller: R. Steiner		Easting:		
Drill Rig Type:		6620 (Track Mo				Borehole Diameter (1	t).02	5
	ng Device: Geo	,	,		Type of Casing:	Dorenole Diameter (,
Type of Sampli	ig Device: Geo	Probe Macro-C	ore Sampler		Type of Casing:			PID Screening
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION		USCS	Symbol	(ppm)
0			0 to 3"	Dark greyTopsoil				7.4
			3" to 16"	Medium grey angular GRAVEL (crus	hed stone)			1.3
1			16" to 18"	Dark black GRAVEL (crushed stone)	Soil samp	le		30.0
			18" to 22"	Dark grey stained CLAY collected for	analysis (16" to	20")		885
2	1	39.5"	22" to 48'	Red Brown CLAY, some Silt, little fine	Sand, very little	Gravel		
			Damp and o	compact				
3								69.2
4								0
5								188.8
6	2	40.0"	Red Brown	CLAY, some Silt, little fine Sand, very lit	tle Gravel			122.4
			Damp and o	compact				
7				6' to 7' - Soil sample collected for	lab analysis			393.4
8				END OF BORING				365.2
Depth to Water	Not encounter	red			Comments: Ground completed geoprot	dwater not encountered e boring.	l in	Boring No. SB-25

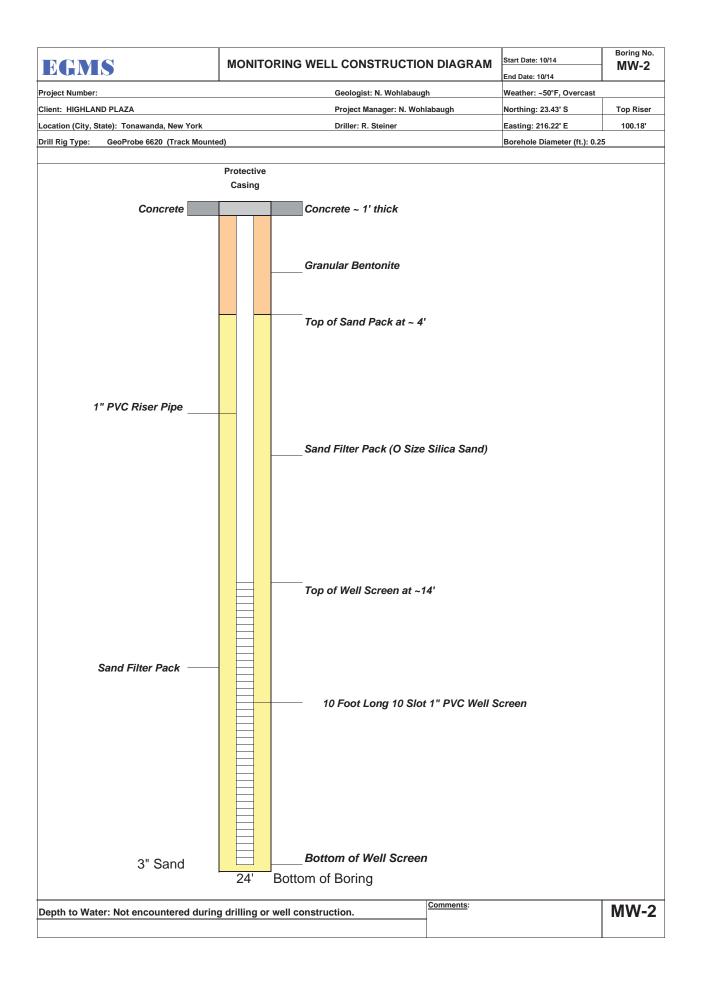
EGN	IS			SUBSURFACE BORING LO	G	Start Date: 10/16 End Date: 10/16		Boring No. SB-26
Project Numbe	r:			Geologist: N. Wohlabaugh	l	Weather: ~50°F	, Overcast	
Client: HIGHL	ND PLAZA			Project Manager: N. Wohl	abaugh	Northing:		Datum:
Location (City,	State): Tonawa	anda, New Yorl	C C	Driller: R. Steiner		Easting:		
Drill Rig Type:	GeoProbe 6	620 (Track Mo	ounted)			Borehole Diame	eter (ft.): 0.25	
Type of Sampli	ng Device: Geo	Probe Macro-C	ore Sampler		Type of Casing:			
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION		U	SCS Symbol	PID Screening (ppm)
0			0 to 3"	Dark grey Topsoil				0.5
			3" to 16.5"	Medium grey angular GRAVEL (crus	ned stone)			1.0
1								
				17" to 22" - Soil sample collected for	or lab analysis			
2	1	41.0"	16.5" to 48"	Red Brown CLAY, some Silt, little fir	ne Sand, very little	Gravel		2
			Damp and co	ompact				
3								1.9
4								0.7
5								188.8
6	2	46.0"	Red Brown C	LAY, some Silt, little fine Sand, very litt	le Gravel			122.4
			Damp and co	ompact				
7								393.4
0				7' to 8' - Soil sample collected for	iab analysis			265.2
8			1	END OF BORING	Comments: Ground	water not encour	tered in	365.2 Boring No.
epth to Water	Not encounter	red			completed geoprobe			SB-26

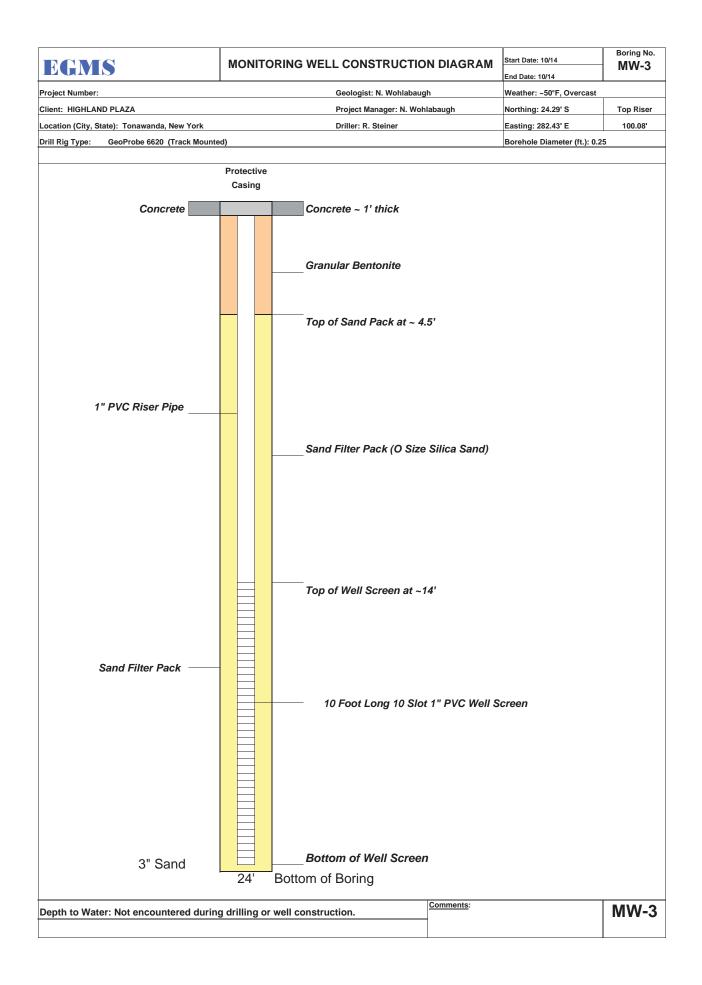
Project Number:			SUBSURFACE BORING LOG	Start Date: 10/1 End Date: 10/1		Boring No. SI 27/MW-5
			Geologist: N. Wohlabaugh	Weather: ~50		
lient: HIGHL			Project Manager: N. Wohlabaugh	Northing:		Datum:
Location (City, State): Tonawanda, New Yor			k Driller: R. Steiner	Easting:		
orill Rig Type:		6620 (Track M	ounted) Borehole D		meter (ft.): 0.25	
ype of Sampli	ng Device: Geo	Probe Macro-	Core Sampler Type of Casing	g:		
Depth <i>(feet)</i>	Sample ID	Recovery	SOIL DESCRIPTION		USCS Symbol	PID Screenin (ppm)
0			0 to 6" Dark grey Topsoil			0
			6" to 12" Medium grey angular GRAVEL (crushed stone)			0
1			17" to 22" - Soil sample collected for lab analysis 14" to 19" Dark grey CLAY (stained) some Silt, little fine Sand, very little			0
2	1	40"	Gravel; Damp and compact			-
3			19" to 48" Red brown CLAY , some Silt, little fine Sand, very littl Damp and compact	lle Gravel		0
Ū						
4						0
5						0
6	2	46"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel			0
7			Damp; very compact			0
						0
8						-
9						0
10	3	45.5"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel Damp; very compact			0
11						0.5
12						0.2
13						0
14	4	39.5"	Red Brown CLAY, some Silt, very little fine Sand, very little Grave	1		2.7
15			Damp to moist; less compact 14' to 15' - Soil sample collected for lab analysi	s		9.6
16						3.8
17						0
18	5	43"	Red Brown CLAY, some Silt, little fine Sand, very little Gravel			0
19			Moist to wet; less compact at 17.5' to 20'			0
20						0
21						0
22	6	40.5"	Red Brown CLAY , some Silt, little fine Sand, very little Gravel Mois to wet; pliable to soft			0
23						0
24			23' to 24' - Soil sample collected for lab analysi END OF BORING	S		0
	: Not encounte	red		converted to M	N-5	Boring No

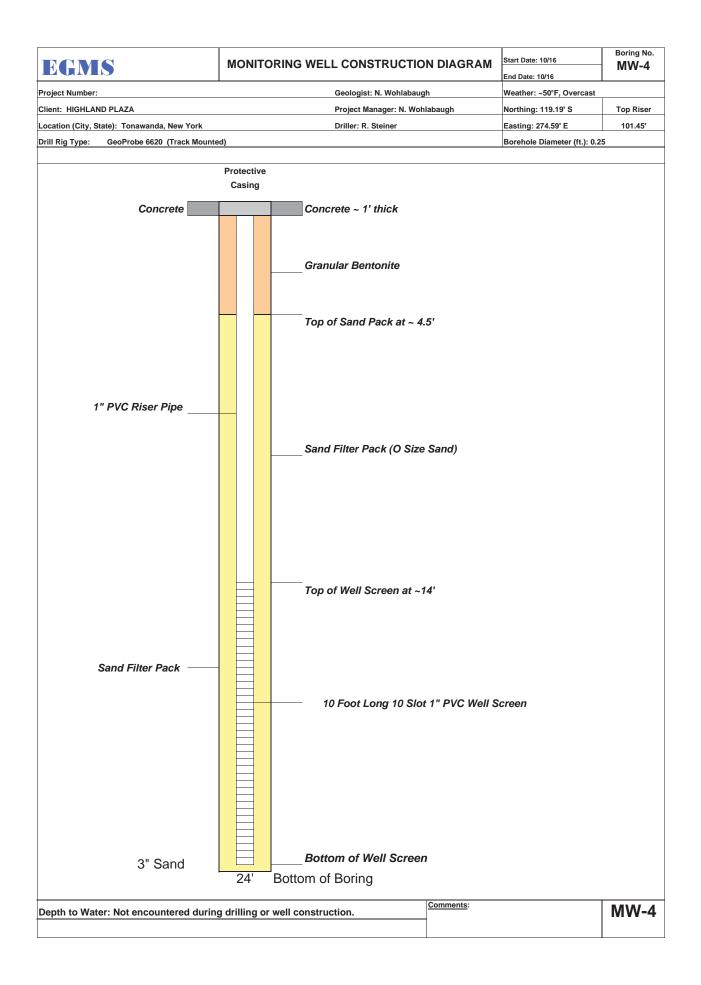
EGN	IS)G	Start Date: 10 End Date:	0/16	Boring No. SB-28
Project Numbe	er:		Geologist: N. Wohlabau	gh	Weather: ~5	50°F, Overcast	
Client: HIGHL	AND PLAZA		Project Manager: N. Wo	hlabaugh	Northing:		Datum:
Location (City	State): Tonaw	vanda, New Yo	rk Driller: R. Steiner		Easting:		
Drill Rig Type:	GeoProbe	6620 (Track I	founted)		Borehole Di	iameter (ft.): 0.2	5
	ing Device: Ge		· · ·	Type of Casing:			
Depth (feet)	Sample ID	Recovery	SOIL DESCRIPTION			USCS Symbol	PID Screening (ppm)
0			0 to 2.5" Dark grey Topsoil				0.1
			2.5" to 17" Medium grey angular GRAVEL (cru	ished stone)			1.0
1							
			10" to 22" - Soil sample collected	for lab analysis			
2	1	42.0"	17" to 48" Red Brown CLAY, some Silt, little fi	ne Sand, very little	Gravel		2.7
			Damp and compact				
3							0
4							0
							-
5							0
6	2	45.5"	Red Brown CLAY , some Silt, little fine Sand, very	little Gravel			0
0	2	-0.0	Damp and compact				0
7							0
			7' to 8' - Soil sample collected fo	r lab analvsis			Ŭ
8			END OF BORING				0
Depth to Wate	r: Not encounte	ered		a construction of the second second second second			Boring No.

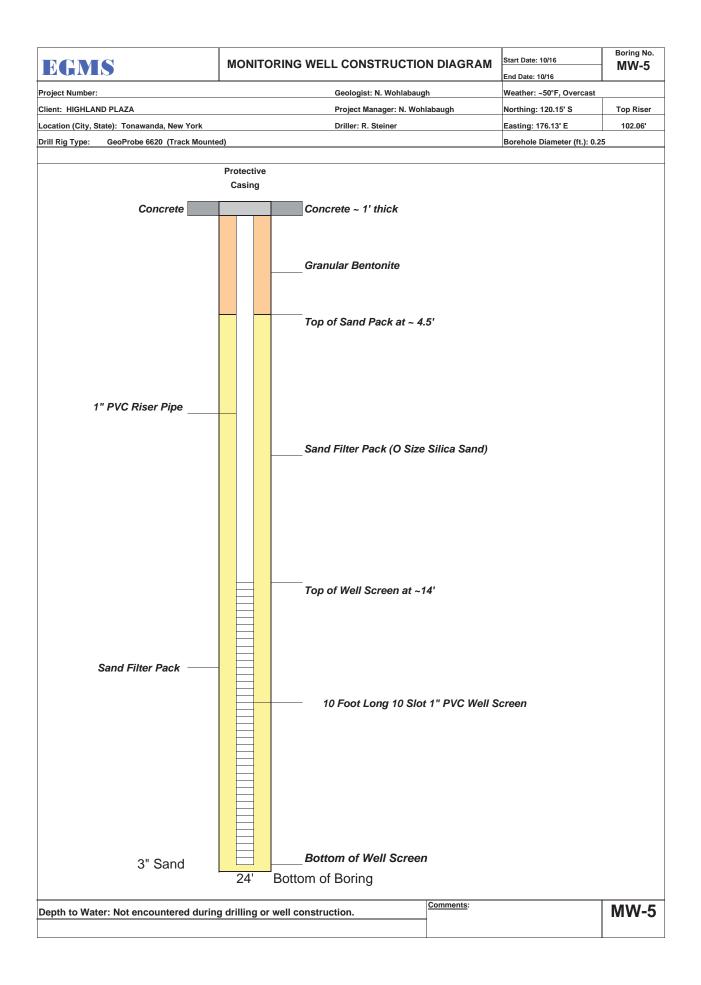
EGM	IS			SUBSURFACE BORING LO	G	Start Date: End Date:		Boring No. SB-29
Project Number				Geologist: N. Wohlabaugh	1	Weather: ~5	0°F, Overcast	
Client: HIGHLA	ND PLAZA			Project Manager: N. Wohl	abaugh	Northing:		Datum:
Location (City,	State): Tonawa	anda, New Yor	k	Driller: R. Steiner		Easting:		
Drill Rig Type:	GeoProbe 6	6620 (Track M	ounted)			Borehole Dia	ameter (ft.): 0.25	
Depth (feet)	Sample ID	Recovery		SOIL DESCRIPTION			USCS Symbol	PID Screening (ppm)
0			0 to 10"	Medium grey angular GRAVEL (crush	ned stone)			1.1
			10" to 16"	Light grey angular GRAVEL (crushed	stone)			1.0
1				17" to 22" - Soil sample collected fo	r lab analysis			
			16' to 26"	Dark brown CLAY (stained) some Silt,	little fine Sand, ve	ry		0.8
2	1	45.5"	Gravel; dam	ip and compact				
			26" to 48"	Red Brown CLAY, some Silt, little fine	Sand, very little 0	Gravel		
3			Damp and c	ompact				3.0
4								5.7
5								2.2
6	2	44'	Red Brown	CLAY, some Silt, little fine Sand, very litt	tle Gravel			32.9
			Damp and c	ompact				
7								21.5
				7' to 8' - Soil sample collected for	lab analysis			
8				END OF BORING				51.1
Depth to Water	Not encounter	red			Comments: Groundv completed geoprobe		ountered in	Boring No.











2017 REMEDIAL INVESTIGATION HIGHLAND PLAZA OFF-SITE AREA SITE NO. C915293A

Groundwa	ter & Env	ironmental s	Services, Inc.	IL	D NO. SB-3	0	Page	e 1 of 1
-	-	nland Plaza	Client: NYSD)EC				
ddress: To	nawanda, I	NY	GES Job #: 09	01703				
ounty: Eri	e County		GES Project Mg	r: Eric Popken	NYSDEC	Site No: C	915293A	
	andon Mikolin		Date Drilled: 6/19/2		Split Spoon/Acetat		1.75"	
rilling Compan rill Operator:	y: Empire G Art Koske	eo Services, Inc.	Completion Date: Drilling Method: Di		Split Spoon/Aceta Soil Classification	-	h: od. Burnme	istor
rill Rig Type:	Geoprobe 662	20 DT	Sampling Method: Dr	MacroCore	Field Screening:	PID, 10.2 eV L		
orehole Diame	ter: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	led	
otal Depth:	32'		Depth to Water: No	ot Encountered	Backfill Material:	Soil Cuttings		
efusal Depth:	Not Applicat	ole	Well Diameter: Not	Applicable	Abandonment Co	mpletion Date:	6/19/201	7
epth Sample	Recovery	Field Screen					Abando	onment
eet) Interva	(inches)	(ppm)	Geologi	ic Description		Comments	D	etail
0-4'	90%	0	Fill: Fill, sandy silt, to	opsoil, trace gravel, litt	le sand, organic	Backfilled		
1			matter, extremely mo	ist				
-				l with gravel, brown, lit ay, reddish brown, trac				
- 4-8'	95%	0.3	sand, weakly laminate		e Bruver, trace			•
5-	2070	0.0						
]							斑	
						sample collected		
8-12'	85%	0.3				conceled		
10 -								
1								
12-16'	95%	1.8						
-						sample	斑	
15 -						collected		
16-20'	97.5%	1.8		ay with gravel, brown,	trace to little sand,			
]			soft, extremely moist	, no odors				
-			⊏:≖:					
20 – 20-24'	95%	1.5						•
	2070	1.0						
1							斑	
- 24 281	1000/	1.0				sample collected		
25 – ^{24-28'}	100%	1.0						
1							M	
]						sample	斑	
- 28-32'	97.5%	0.9				collected		
30 -						sample		•
1						collected	闼	
1						1		
Proportions Us	sed:	otes:		Blow Count Pentr	ation Resistance:	-	mah a la -	
Trace =		otes: feet below grade		Consistency (M&C)	Density (G&S)		<u>mbols:</u> t Water Lev	vel ·
Few =	-	Screening measured	n ppmv	<2 = Very Soft 2-4 = Soft	0-4 = Very Loose		ple Locatio	
Little = Some =				4-8 = Medium	4-10 = Loose 10-30 = Medium			1
Some = Adjective =				8-15 = Stiff 15-30 = Very Stiff	30-50 = Dense			
And =				>30 = Hard	50> = Very Dens	e SB-30	r	o. 1 of 1

roundwat	er & Env	ironmental S	ervices, Inc.	ID	NO. SB-3	1	Page 1	of 1
roject: NYS	SDEC High	land Plaza	Client: NYSDI	EC				
ddress: To	nawanda, N	NΥ	GES Job #: 090	1703				
ounty: Erie	County		GES Project Mgr	Eric Popken	NYSDEC	Site No: C	915293A	
gged By: Bra			Date Drilled: 6/19/20		Split Spoon/Acetate		1.75"	
	: Empire G Art Koske	eo Services, Inc.	Completion Date: 6/ Drilling Method: Dire		Split Spoon/Acetat	-	n: od. Burnmeis	ter
•	Geoprobe 662	0 DT	-	MacroCore	Field Screening:	PID, 10.2 eV L		ter
orehole Diamet	er: 3"		Surface Elevation:	Not Surveyed	Abandonment Met	hod: Backfil	led	
otal Depth: 32	2'		Depth to Water: Not	Encountered	Backfill Material:	Soil Cuttings		
fusal Depth:	Not Applicab	le	Well Diameter: Not A	Applicable	Abandonment Con	npletion Date:	6/19/2017	
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)	Geologic	Description		Comments	Abandon Det	
0-4'	97.5%	0.9		psoil, little sand, organi	ic matter, moist	Backfilled		
5 - 4 -8'	95%	1.1	Fill: Silty sand with gr	y, reddish brown, trace	gravel, trace		×	0.4
0 –	92.5	0.0	Clay and Silt: Clayey s moist	ilt with gravel, massive	e, trace sand,	sample collected		
5 – 16-20'	95% 97.5%	2.1	Clay and Silt: Silty cla laiminated to massive,		/el, soft, weakly	sample collected) 送 · ·	
0 - 20-24' 5 - 24-28'	97.5% 95%	2.1 2.3				sample collected	X	4
28-32'	97.5%	1.6				sample collected	X	
60 - -						sample collected	×	4
roportions Use	ad N			Blow Count Pentral	ion Resistance	-		
Proportions Use Trace = Few = Little =	ft bg =	otes: feet below grade creening measured in	ı ppmv	Consistency (M&C) <pre></pre>				

Groundwa	ter & Env	rironmental S	ervices, Inc.	IC) NO. SB-3	52	Pag	e 1 of 1	
roject: NY	SDEC Hig	hland Plaza	Client: NYS	DEC					
ddress: To	nawanda, l	NY	GES Job #: 0	901703					
ounty: Eri	e County		GES Project M	gr: Eric Popken	NYSDEC	Site No: C915293A			
ogged By: Br	andon Mikolir	1	Date Drilled: 6/19		Split Spoon/Acetat	te Sleeve Dia:	1.75"		
		Geo Services, Inc.	Completion Date:		Split Spoon/Aceta	-		• .	
ill Operator: ill Rig Type:	Art Koske Geoprobe 662	20 DT	Drilling Method: I Sampling Method:	Direct Push/Auger MacroCore	Soil Classification Field Screening:	PID, 10.2 eV L	od. Burnn amp (ppm		
orehole Diame	ter: 3"		Surface Elevation:	Not Surveyed	Abandonment Me			<i>,</i>	
	32'		Depth to Water:	•	Backfill Material:				
· fusal Depth:	Not Applical	ole	Well Diameter: N		Abandonment Co	0	6/19/20	17	
epth Sample	Recovery	Field Screen					Aband	lonment	
eet) Interval		(ppm)	Geolo	gic Description		Comments		Detail	
0_0-4'	87.5%	2.9	Fill: Fill dark brow	n to brown, sandy silt, to	psoil, gravel.	Backfilled			
1	0,.070		course sand, trace of	rganic matter, medium st	tiffness, moist	Sachimou			
1				clay, reddish brown to br aminated to massive, mo					
- 4.01	02.5%	1.0	□:Ⅲ:	·····, ·					
5-4-8'	92.5%	1.9							
-									
1						sample	斑		
8-12'	87.5%	1.6	Clay and Silt: Silty \Box sand, laminated, stift	clay, reddish brown, trac	e gravel, trace	collected		•	
0 -				1, 110150					
1			± : ±						
12-16'	97.5%	2.1		clay, reddish brown, trac					
			\pm \pm sand, laminated, stil	ff, softer with depth after	15 feet, moist		X		
5						sample collected,			
- 16-20'	100%	0.4	Clay and Silt: Silty	clay, brown, trace sand, t	trace gravel, soft,	Duplicate			
1			massive, extremely		, <u>.</u>				
]									
20	07.5%	2.0							
20-24'	97.5%	2.0	E : I :						
1								•	
]						sample	斑		
24-28'	100%	1.6				collected, MS/MSD		•	
-									
1						sample	X		
28-32'	100%	3.1				collected			
30 -			<u> </u>						
-						sample collected	選		
1						1			
Proportions Us Trace =		otes: feet below grade		Blow Count Pentra Consistency (M&C)	ation Resistance: Density (G&S)		<u>mbols:</u>		
Few =	-	Screening measured i	n ppmv	<2 = Very Soft	0-4 = Very Loose		t Water Le ple Locati		
Little =				2-4 = Soft 4-8 = Medium	4-10 = Loose		pic LUCall	on	
Some =				8-15 = Stiff	10-30 = Medium 30-50 = Dense				
djective = And =				15-30 = Very Stiff >30 = Hard	50>= Very Dense	e SB-32		p. 1 of 1	

roundwat	er & Env	ironmental S	Services, Inc.	IC) NO. SB-3	53	Page 1 o	f 1
roject: NYS	SDEC High	ıland Plaza	Client: NY	SDEC				
ddress: Tor	nawanda, N	NY	GES Job #:	0901703				
ounty: Erie	County		GES Project	Mgr: Eric Popken	NYSDEC	Site No: C915293A		
ogged By: Bra			Date Drilled: 6/		Split Spoon/Acetat		1.75"	
	: Empire G Art Koske	eo Services, Inc.	Completion Date	: 6/19/2017 Direct Push/Auger	Split Spoon/Acetat	-	n: od. Burnmeister	
•	Geoprobe 662	0 DT	Sampling Method	0	Field Screening:	PID, 10.2 eV L		
orehole Diamete	er: 3"		Surface Elevation	n: Not Surveyed	Abandonment Me	thod: Backfil	led	
otal Depth: 32	2'		Depth to Water:	Not Encountered	Backfill Material:	Soil Cuttings		
efusal Depth:	Not Applicab	le	Well Diameter:	Not Applicable	Abandonment Cor	mpletion Date:	6/19/2017	
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)	Geo	ologic Description		Comments	Abandonme Detail	
0 -4'	92.5%	3.5	Fill: Fill, gravely	with come cand		comple		-
- ^{U-4'} -	92.3%	5.5	Fill: Fill, gravely Clay and Silt: Silt laminated to block	y clay with gravel, brown,	trace sand, weakly	sample collected		
5 – ^{4-8'}	97.5%	2.8						
0 –	90%	2.8	Clay and Silt: Silt Clay and Silt: Silt laminated, moist	y clay, brown, trace gravel	, trace sand,	sample collected		
12-16'	100%	2.1	Clay and Silt: Silt weakly laminated	y clay, brown, trace gravel , soft, moist	, trace sand,	sample	×	
16-20'	100%	1.8				collected		
20-24'	97.5%	1.6				sample	X	
28-32'	100%	2.0				sample collected	×	
30 - - -						sample collected	×	
				Diaus Carnet Day	ation Desister			
Proportions Use Trace = Few = Little =	ft bg =	<u>otes:</u> feet below grade Screening measured i	n ppmv	Blow Count Pentra Consistency (M&C) <2 = Very Soft 2-4 = Soft 4-8 = Medium	Density (G&S) 0-4 = Very Loose 4-10 = Loose	Apparen	<u>mbols:</u> t Water Level ple Location	2

Groundwa	ter & Env	vironmental S	Service	es, Inc.	IC) NO. SB-	34	Pag	ge 1 of 1
roject: NY	SDEC Hig	hland Plaza		Client: NYSD	EC				
ddress: To	nawanda, 1	NY		GES Job #: 090	1703				
ounty: Eri	e County			GES Project Mgr	Eric Popken	NYSDEC	Site No: C	915293A	4
	andon Mikolii			Date Drilled: 6/20/20		Split Spoon/Aceta		1.75"	
illing Compan ill Operator:	y: Empire (Art Koske	Geo Services, Inc.		Completion Date: 6 Drilling Method: Dire		Split Spoon/Acet	-	h: Iod. Burnr	maistar
ill Rig Type:	Geoprobe 66	20 DT		-	MacroCore	Field Screening:	,		
orehole Diame	eter: 3"			Surface Elevation:	Not Surveyed	Abandonment M	ethod: Backfil	led	
tal Depth:	32'			Depth to Water: Not	t Encountered	Backfill Material:	Soil Cuttings		
fusal Depth:	Not Applical	ble		Well Diameter: Not	Applicable	Abandonment Co	ompletion Date:	6/20/20	017
epth Sample eet) Interval		Field Screen (ppm)		Geologic	c Description		Comments		donment Detail
0									
0-4'	92.5%	0.5		Fill: Fill, black, sandy little organic matter, m		tle sand, trace to	Backfilled		
1				Fill: Fill, sandy silt wit	th gravel, little sand, tr	ace clay, moist			
1				Clay and Silt: Silty cla sand, trace organic ma					
5-4-8'	97.5%	0.3	Ξ.Ξ		,				
-									
1							sample	斑	
8-12'	90%	0.0		Clay and Silt: Silty cla trace sand, weakly larr			collected		•
0 -				toextremely moist	iniated, still, soliens o				
1			т. т						
12-16'	100%	0.0							
-							1	斑	
5 -							sample collected		
16-20'	100%	0.0		Clay and Silt: Silty cla		, trace sand, soft,			
4			Ξ Ξ	massive, extremely mo	oist to wet				
-			⊑: ⊥ :						
20-24'	97.5%	0.5							
]									
-							sample	斑	
24-28'	100%	0.0	Ξ.Ξ				collected		
24-20									
-							1	斑	
- 28-32'	100%	0.5					sample collected		
30 - 00									
~ _							sample collected	X	
-			::: :						
					Diau: Oau: (D	tion Desist			
Proportions Us Trace =		otes: = feet below grade			Blow Count Pentra Consistency (M&C)	ation Resistance: Density (G&S)	_	/mbols: t Water Lé	evel
Few =		Screening measured i	in ppmv		<2 = Very Soft 2-4 = Soft	0-4 = Very Loos	se	t Water Le ple Locati	
Little = Some =					4-8 = Medium	4-10 = Loose 10-30 = Medium			I
djective =					8-15 = Stiff 15-30 = Very Stiff	30-50 = Dense			
And =					>30 = Hard	50> = Very Den	se SB-34		p. 1 of 1

Groundwa	ter & Env	ironmental s	Service	es, Inc.) NO. SB-3	35	Pa	ge 1 of 1
Project: NY	SDEC High	nland Plaza		Client: NYSDI	EC				
ddress: To	nawanda, I	NY		GES Job #: 090	1703				
ounty: Eri	e County			GES Project Mgr	Eric Popken	NYSDEC	Site No: C915293A		
ogged By: Br				Date Drilled: 5/4/201		Split Spoon/Aceta		1.75"	
rilling Compan rill Operator:	y: Empire G Art Koske	Geo Services, Inc.		Completion Date: 5/ Drilling Method: Dire		Split Spoon/Aceta Soil Classification	-	ih: Iod. Burn	maistan
rill Rig Type:	Geoprobe 662	20 DT		-	MacroCore	Field Screening:			
orehole Diame	ter: 3"			Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	lled	
otal Depth: 3	32'			Depth to Water: Not	t Encountered	Backfill Material:	Soil Cuttings		
efusal Depth:	Not Applicat	ole		Well Diameter: Not 2	Applicable	Abandonment Co	mpletion Date:	5/4/20)17
epth Sample eet) Interval		Field Screen (ppm)		Geologic	Description		Comments	Abar	ndonment Detail
0_									
0-4'	100%	0.4		Gravel: Gravel			Backfilled		
-		12.3		Fill: Fill, clay and grav Clay and Silt: Silty cla	-	ek -	sample	選	
1					,, nurd, ury		collected		
5-4-8'	100%	19.0	Т. Т	Clay and Silt: Silty cla	y, brown, hard, dry, n	o odors			
-		21.2							
1		21.2	Ξ.Ξ				sample	圏	•
8-12'	100%	13.6					collected		
10 -									
-		5.2							•
- 12-16'	100%	0.5					sample	図	
]				•			collected		
5		0.0							
16-20'	100%	0.0		Clay and Silt: Silty cla	y, brown, medium stif	ffness, dry, no			
-				odors					
-		0.0	□ : ⊥ :				sample	斑	
20 - 20-24'	100%	0.3					collected		
-		0.0					sample	斑	
24-28'	100%	0.0					collected		
25 - 27-20			\Box						
-		0.2					somela	闼	
- 28-32'	100%	0.0					sample collected		
30 -									
~		0.0					sample collected	斑	
η		л							
Proportions Us		otes:			Blow Count Pentra		<u>S</u>)	/mbols:	
Trace = Few =	-	feet below grade	in nav		Consistency (M&C) <2 = Very Soft	Density (G&S)		t Water L	
Little =	Field S	Screening measured	in ppmv		2-4 = Soft 4-8 = Medium	4-10 = Loose	Lab Sam	ple Loca	tion
Some =					8-15 = Stiff	10-30 = Medium 30-50 = Dense			
Adjective =					15-30 = Very Stiff >30 = Hard	50-50 = Dense 50> = Very Dens	e SB-35		p. 1 of 1

			ironmental S		s, inc.	11) NO. SB-3			e 1 of 1
Project	t: NYS	DEC High	land Plaza		Client: NYSD	EC				
ddres	s: Ton	awanda, N	NΥ		GES Job #: 090	1703				
county	: Erie	County			GES Project Mgr	Eric Popken	NYSDEC	Site No: C	915293A	
	By: Eric	•			Date Drilled: 5/4/201		Split Spoon/Acetat		1.75"	
Drilling C Drill Oper			eo Services, Inc.			/4/2017	Split Spoon/Acetat	-		
Drill Rig 1		Art Koske Geoprobe 662	0 DT		Drilling Method: Dire Sampling Method:	ect Pusn/Auger MacroCore	Soil Classification Field Screening:	PID, 10.2 eV L	od. Burnm amp (ppm	
Borehole	Diamete	er: 3"			Surface Elevation:	Not Surveyed	Abandonment Met			
otal Dep	pth: 32	•			Depth to Water: Not	t Encountered	Backfill Material:	Soil Cuttings		
Refusal D	Depth:	Not Applicab	le		Well Diameter: Not	Applicable	Abandonment Cor	mpletion Date:	5/4/2017	7
Depth	Sample	Recovery	Field Screen		.	D		-	Aband	onment
(feet)	Interval	(inches)	(ppm)		Geologic	Description		Comments	D	etail
0	0-4'	25%	4.2	—	Clay and Silt: Silty cla	y, brown, hard, trace a	gravel, no odors	Backfilled		
1				:: _ :					X	
-				王 I				sample collected		
-	4-8'	100%	26.7		Clay and Silt: Silty cla	w brown hard trace	pravel dry to moist	sample	斑	
5-	0	10070	20.7	— —	no odors	y, orown, nard, duce g	siuvei, ury to moist,	collected		
1			30.3						斑	•
								sample collected		
- 8	8-12'	100%	27.1	— —	Clay and Silt: Silty cla no odors	y, brown, hard, trace g	gravel, moist to dry,	confected		
10 -			25.2	:: _ :						
1				Ξ Ξ						
1	12-16'	75%	20.7		Clay and Silt: Silty cla odors	y, brown, hard, trace g	gravel, moist, no			
-			7.8		odors			sample	斑	
15 -			7.0					collected		
1	16-20'	0%	1.8	:: <u></u> ::	Clay and Silt: Silty cla	y, brown, medium stif	ffness, trace gravel,			
-				王 1	moist, no odors					
-			1.7							
20 - 2	20-24'	100%	2.5	— —	Clay and Silt: Silty cla	y, brown, soft, trace g	ravel, wet, no			
1					odors					. • .
-			1.6		Clay and Silt: Silty cla wet, no odors	y, brown, medium stif	ffness, trace gravel,		斑	
-	24-28'	100%	2.4		Clay and Silt: Silty cla	v brown medium stit	fness trace gravel	sample collected		
25 - 1	L T-20	10070	<i>2.</i> 7	-: - :	moist, no odors	, stown, moutum sur	ess, nuce gravel,			
1			1.0	Ξ Ξ					斑	
-		1005					20	sample collected		
- 2	28-32'	100%	1.5		Clay and Silt: Silty cla moist, no odors	y, brown, medium stif	tness, trace gravel,	concettu		
30 -			0.8					sample		
]				-: <u>-</u> :				collected	斑	
L		I	I							
Proport	ions Use	d: No	otes:			Blow Count Pentra	ation Resistance:	Sv	mbols:	
Trace =	=		feet below grade			Consistency (M&C)	Density (G&S)	Apparent	t Water Lev	vel
Few =		Field S	creening measured i	in ppmv		<2 = Very Soft 2-4 = Soft	0-4 = Very Loose 4-10 = Loose		ple Locatio	
Little =	-					4-8 = Medium				
Some =	=					8-15 = Stiff	10-30 = Medium			

rill Operator: rill Rig Type: orehole Diamet otal Depth: 3	nawanda, N e County c Popken 7: Empire G Art Koske Geoprobe 662 er: 3"	NY ieo Services, Inc. 20 DT	Client: NYSJ GES Job #: 09 GES Project Mg Date Drilled: 5/4/2 Completion Date: Drilling Method: D Sampling Method: Surface Elevation: Depth to Water: N	001703 gr: Eric Popken 017 5/4/2017	NYSDEC Split Spoon/Acetat Split Spoon/Acetat Soil Classification Field Screening:	e Sleeve Lengt	1.75"	
ounty: Eric ogged By: Eri rilling Company rill Operator: rill Rig Type: orehole Diamet otal Depth: 3 efusal Depth: epth Sample	e County c Popken /: Empire G Art Koske Geoprobe 662 er: 3" 2' Not Applicab Recovery	eo Services, Inc. 20 DT	GES Project Mg Date Drilled: 5/4/2 Completion Date: Drilling Method: D Sampling Method: Surface Elevation:	gr: Eric Popken 017 5/4/2017 irect Push/Auger MacroCore	Split Spoon/Acetat Split Spoon/Acetat Soil Classification	e Sleeve Dia: e Sleeve Lengt System: M	1.75" h:	
egged By: Eri illing Company ill Operator: ill Rig Type: prehole Diamet otal Depth: 3 efusal Depth: epth Sample	c Popken /: Empire G Art Koske Geoprobe 662 er: 3" 2' Not Applicab Recovery	0 DT	Date Drilled: 5/4/2 Completion Date: Drilling Method: D Sampling Method: Surface Elevation:	5/4/2017 irect Push/Auger MacroCore	Split Spoon/Acetat Split Spoon/Acetat Soil Classification	e Sleeve Dia: e Sleeve Lengt System: M	1.75" h:	
illing Company ill Operator: ill Rig Type: prehole Diamet otal Depth: 3 efusal Depth: epth Sample	7: Empire G Art Koske Geoprobe 662 er: 3" 2' Not Applicab Recovery	0 DT	Completion Date: Drilling Method: D Sampling Method: Surface Elevation:	5/4/2017 irect Push/Auger MacroCore	Split Spoon/Acetat	e Sleeve Lengt System: M	h:	neister
ill Operator: ill Rig Type: orehole Diamet otal Depth: 3 ofusal Depth: epth Sample	Art Koske Geoprobe 662 er: 3" 2' Not Applicab Recovery	0 DT	Drilling Method: D Sampling Method: Surface Elevation:	irect Push/Auger MacroCore	Soil Classification	System: M		neister
ill Rig Type: prehole Diamet ptal Depth: 3 pfusal Depth: epth Sample	Geoprobe 662 er: 3" 2' Not Applicab Recovery		Sampling Method: Surface Elevation:	MacroCore		•	ou. Durm	
tal Depth: 3 fusal Depth: epth Sample	2' Not Applicab Recovery	ole		Not Surveyed			amp (ppn	
efusal Depth:	Not Applicab	ole	Depth to Water: N		Abandonment Met	thod: Backfil	led	
epth Sample	Recovery	ole		ot Encountered	Backfill Material:	Soil Cuttings		
	-		Well Diameter: No	t Applicable	Abandonment Cor	mpletion Date:	5/4/20	17
,0()	(Field Screen (ppm)	Geolog	jic Description		Comments		donment Detail
0								
0-4'	100%	1.9	Fill: Fill, silty clay, t	own, hard, moist, no od prown, hard, trace grave		Backfilled sample	斑	
-		8.2	slight odor	lay, brown, soft to medi	ium stiffness_trace	collected		
5-4-8'	95%	46.2	gravel, dry, no odors		/			
1		44.6	no odors				斑	
8-12'	75%	32.2				sample collected		
- 0		43.2						•
12-16'	100%	1195	Clay and Silt: Silty c odors between 14-15	lay, brown, hard, trace g	gravel, dry to moist,			
5 -		>2,000				sample collected	X	
16-20'	100%	>2,000	Clay and Silt: Silty c odors	lay, brown, hard, trace g	gravel, dry to moist,	sample collected	X	
		43.2	Clay and Silt: Silty c dry to moist, no odor	lay, brown, medium stif	ffness, trace gravel,	sample	×	
20-24'	100%	20.0	Clay: Clay, brown, s	oft to medium stiffness,	dry to moist	collected		
-	1000/	5.1				sample collected	斑	
5 – ^{24-28'}	100%	14.8				Sendered		
- 28-32'	100%	2.9 2.5				sample collected	斑	
80 -	10070	1.8						
1						sample collected	斑	
Proportions Use	ed:			Blow Count Pentra	ation Resistance:			
Trace =		otes: feet below grade		Consistency (M&C)	Density (G&S)	Apparen	<u>mbols:</u> t Water Le	evel
Few = Little =	Field S	Screening measured in	ppmv	<2 = Very Soft 2-4 = Soft 4-8 = Medium	0-4 = Very Loose 4-10 = Loose 10-30 = Medium		ple Locati	
Some = .djective =				8-15 = Stiff 15-30 = Very Stiff	30-50 = Dense			

Groundw	ater & Env	vironmental Se	rvices, Inc.	ID I	NO. SB-3	58	Page	e 1 of 1
•	YSDEC Hig Fonawanda,		Client: NYSDEC GES Job #: 0901703					
County: E	rie County		GES Project Mgr: Eric	Popken	NYSDEC	Site No: C915293A		
	Brandon Mikoli		Date Drilled: 6/21/2017		Split Spoon/Acetat		1.75"	
orill Operator:		Geo Services, Inc.	Completion Date: 6/21/2017 Drilling Method: Direct Push/A		Split Spoon/Acetat	-	n: lod. Burnme	eister
rill Rig Type:		20 DT	Sampling Method: MacroCor	-	Field Screening:			
orehole Diar	neter: 3"		Surface Elevation: Not Surve	yed A	Abandonment Me	thod: Backfil	led	
otal Depth:	32'		Depth to Water: Not Encounte	ered E	Backfill Material:	Soil Cuttings		
efusal Depth	: Not Applica	ble	Well Diameter: Not Applicable		Abandonment Cor	mpletion Date:	6/21/201	7
Depth Samp feet) Interv		Field Screen (ppm)	Geologic Description	on		Comments	Abando De	onment etail
•								
0 0-4'	70%	0.7	Fill: Fill, brownish grey, sandy s to moist Clay and Silt: Silty clay, brown,			Backfilled		. 4
5 -4-8'	100%	0.7	weakly laminated to blocky, very					
10 –	92.5%	2.1				sample collected	X	.4
12-16 15 –	5' 100%	35	Clay and Silt: Silty clay with gra laminated to massive, medium st			sample collected	X	
1 6-20 20		0.4	Clay and Silt: Silty clay with gra massive, soft, extremely moist to		ce sand,			
2 0-24 2 5 – ²⁴⁻²⁸		0				sample collected	X	•
28-32	2' 100%	0.3				sample collected	闼	.4
30 - - -						sample collected	斑	. 4
Proportions Trace = Few = Little =	ft bg :	lotes: = feet below grade Screening measured in	Consistent	t	Density (G&S) 0-4 = Very Loose 4-10 = Loose	Apparen	r <u>mbols:</u> t Water Lev ple Location	
Some = Adjective =			8-15 = St 15-30 = V	htt l	0-30 = Medium 30-50 = Dense			
-ujecuve =			15-30 = V >30 = Ha	cry Sun	50> = Very Dense	SB-38	n	o. 1 of 1

roundwat	ter & Env	ironmental	Service	es, Inc.	IC) NO. SB-3	<u>89</u>	Page	1 of 1
roject: NY	SDEC High	ıland Plaza		Client: NYSD	EC				
ddress: To	nawanda, N	NY		GES Job #: 090	01703				
ounty: Eri	e County			GES Project Mg	: Eric Popken	NYSDEC	Site No: C	915293A	
ogged By: Eri				Date Drilled: 5/4/20		Split Spoon/Acetat		1.75"	
illing Compan ill Operator:	y: Empire G Art Koske	eo Services, Inc.		Completion Date: 5 Drilling Method: Dir		Split Spoon/Aceta Soil Classification	-	h: od. Burnme	istor
ill Rig Type:	Geoprobe 662	0 DT		Sampling Method:	MacroCore	Field Screening:	PID, 10.2 eV L		
orehole Diame	ter: 3"			Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	led	
otal Depth: 3	2'			Depth to Water: No	t Encountered	Backfill Material:	Soil Cuttings		
fusal Depth:	Not Applicab	le		Well Diameter: Not	Applicable	Abandonment Cor	mpletion Date:	5/4/2017	
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)		Geologi	c Description		Comments	Abando De	onment etail
			1					•	
00-4'	87.5%	244		Gravel: Gravel			Backfilled		
-				Fill: Fill, gravel, sand	, clay, stained black, m	oist, solvent odor	sample	巖	•
1		756		Clay and Silt: Silty cla	ay, brown, hard, dry, so	olvent odor	sample sample collected collected		
5 - 4-8'	100%	>2000							
~ -		>2000	-: - : - :						
1		~2000	⊥ ⊐				sample	闼	
8-12'	100%	201					collected		
0		>2000					sample	斑	
1		2000	Ξ Ξ				collected		
12-16'	100%	418		Clay and Silt: Silty cla	ay, brown, hard, dry, sl	ight odors			
-		170					sample	斑	
5 -		170					collected		
16-20'	100%	88.8		Clay and Silt: Silty cla odors	ay, brown, medium stif	ffness, dry, slight			
-		10.9	⊥ ⊐	odors					•
		10.9							
20-24'	75%	3.4		Clay and Silt: Silty cla	ay, brown, medium stif	ffness, dry, no odor			
-		41.4							
1		41.4	- : 工 :				sample	斑	•
24-28'	0%	20.1	— : –				collected		
		12.9							
1		13.8					sample	斑	
28-32'	0%	NA		No recovery			collected		
30 -									
1									
1									
Proportions Us	ed:	tee.			Blow Count Pentra	ation Resistance:		mah a la	
Trace =		otes: feet below grade			Consistency (M&C)	Density (G&S)	Apparent	<u>mbols:</u> t Water Lev	el
Few =	Field S	Screening measured	in ppmv		<2 = Very Soft 2-4 = Soft	0-4 = Very Loose 4-10 = Loose		ple Location	
Little = Some =					4-8 = Medium	4-10 = Loose 10-30 = Medium			
Some					8-15 = Stiff	10 50 meanum			

Groundw	ater & En	vironmental S	ervices, Inc.	ID N	10. SB-4	-0	Page	1 of 1
roject: N	YSDEC Hig	ghland Plaza	Client: NYSDEC					
ddress: 1	Fonawanda,	NY	GES Job #: 0901703					
ounty: E	rie County		GES Project Mgr: Er	ic Popken	NYSDEC	Site No: C	915293A	
ogged By: 1			Date Drilled: 5/3/2017		olit Spoon/Acetate		1.75"	
rilling Compa rill Operator:		Geo Services, Inc.	Completion Date: 5/3/2017		olit Spoon/Acetat	-		
rill Rig Type:		520 DT	Drilling Method: Direct Push Sampling Method: MacroC	0	oil Classification S ield Screening:	PID, 10.2 eV L	od. Burnme amp (ppmv)	
orehole Dian			Surface Elevation: Not Sur	veved A	bandonment Met			
otal Depth:	32'		Depth to Water: 10'	•		ackfill Material: Soil Cuttings		
fusal Depth	: Not Applica	ıble	Well Diameter: Not Applica		bandonment Con	0		
epth Samp	ble Recovery	Field Screen					Abando	nment
eet) Interv		(ppm)	Geologic Descri	ption		Comments		etail
0-4'	50%	0.0	Clay: Clay, brown, hard, mois	t, no odors		Backfilled		
1				,			斑	
]						sample collected		
- 4-8'	75%	0.1				- 51100104		
5-4-8	/3%	0.1						
1		0.0						
1						sample	XX	
8-12'	100%	1.3				collegted collected		•
0		0.4				sample	ً	
-		0.4				collected,		
12-16	5' 15%	0.6				water encountered		
-							斑	
15 -	25%					sample collected		
16-20)' 0%	0.8						
1								
-								
20 – 20-24	F 12.5	NA						
- 20-24	12.5	1121						
1							斑	•
						sample collected		
25 – ²⁴⁻²⁸	3' 50%	0.6				- 51100104		
1		0.0						
1						sample	斑	
_ 28-32	2' 15%	0.0				collected		
30 -								
1								
1								
Proportions	Used:	Notes:	Bio	w Count Pentration	Resistance:	0	mbole:	
Trace =		votes: = feet below grade	Consist	ency (M&C)	Density (G&S)	Apparent	<u>mbols:</u> t Water Leve	el
Few =	Field	Screening measured in	ppmv <-2 = 7 2-4 = 8	Very Soft	0-4 = Very Loose		ple Location	
Little = Some =			4-8 = N	Aedium	1-10 = Loose 1-30 = Medium			
djective =			8-15 = 15-30 =	Stiff)-50 = Dense			
And =			>30 =		50> = Very Dense	SB-40	р	. 1 of 1

Grou	ndwat	er & Env	ironmental Serv	vices, Inc.	IC) NO. SB- 4	1	Page	1 of 1
Proje	ct: NYS	DEC High	iland Plaza	Client: NYSDI	EC				
ddre	ess: Tor	awanda, N	NΥ	GES Job #: 090	1703				
ount	ty: Erie	County		GES Project Mgr	Eric Popken	NYSDEC	Site No: C	915293A	
rilling rill Op	Company erator:	ndon Mikolin : Empire G Art Koske Geoprobe 662	eo Services, Inc.	Date Drilled: 6/22/20 Completion Date: 6/ Drilling Method: Dire Sampling Method: 1	/22/2017	Split Spoon/Acetat Split Spoon/Acetat Soil Classification Field Screening:	te Sleeve Lengt	lod. Burnme	
oreho	le Diamete	er: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	led	
otal D	epth: 24	ļ *		Depth to Water: 10'		Backfill Material:	kfill Material: Soil Cuttings		
efusal	Depth:	Not Applicab	le	Well Diameter: Not A	ell Diameter: Not Applicable Abandonment Completion Date:			6/22/201	7
Depth feet)	Sample Interval	Recovery (inches)	Field Screen (ppm)	Geologic	Description		Comments	Abando De	onment etail
0-	0-4'	85%	0.7	Fill: Fill, brownish grey concrete, trace slag, dr	y to moist		Backfilled		
5-	4-8'	100%	0.5	sand, weakly laminated Clay and Silt: Silty clay laminated, very stiff, so	d, medium stiffness, m y with gravel, brown,	noist trace sand, weakly		W	.4
- - 10	8-12'	100%	0.8				sample collected	X	
- - 15	12-16'	100%	1.6				sample	X	
-	16-20'	100%	3.0	Clay and Silt: Silty cla massive, soft, extremel		trace sand,	collected		
20 -	20-24'	100%	0.6						
-				I.			sample collected	X	
Drope	rtione	d.			Blow Count Pentra	ation Resistance:	_		
Trace	rtions Use =	<u> </u>	<u>otes:</u> feet below grade		Consistency (M&C)	Density (G&S)		<u>/mbols:</u> t Water Lev	ol
Fev Little Som	v = =	-	creening measured in ppr	1V	<2 = Very Soft 2-4 = Soft 4-8 = Medium 8 15 = Stiff	0-4 = Very Loose 4-10 = Loose 10-30 = Medium		t Water Lev	
Adjecti					8-15 = Stiff 15-30 = Very Stiff	30-50 = Dense			
And =					>30 = Hard	50> = Very Dense	sB-41	n	. 1 of 1

roundwat	er & Env	ironmental Ser	vices, Inc.	ID	NO. SB-4	3	Page 1 of 1
roject: NYS	SDEC High	lland Plaza	Client: NYSDE	C			
ddress: To	nawanda, N	NΥ	GES Job #: 0901	703			
ounty: Erie	e County		GES Project Mgr:	Eric Popken	NYSDEC S	Site No: C9	915293A
ogged By: Eri	•		Date Drilled: 5/3/2017		Split Spoon/Acetate		1.75"
	-	eo Services, Inc.	Completion Date: 5/3		Split Spoon/Acetate	•	
	Art Koske Geoprobe 662	0 DT	Drilling Method: Direct Sampling Method: M	0	Soil Classification S Field Screening:	PID, 10.2 eV L	od. Burnmeister amp (ppmv)
prehole Diamet	er: 3"		Surface Elevation:	Not Surveyed	Abandonment Met	nod: Backfill	ed
otal Depth: 3	2'		Depth to Water: 10'		Backfill Material:	Soil Cuttings	
efusal Depth:	Not Applicab	le	Well Diameter: Not A	pplicable	Abandonment Con	pletion Date:	5/3/2017
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)	Geologic	Description		Comments	Abandonment Detail
0 0-4'	100	0.3	☐ Clay and Silt: Silty clay	r, brown, dry to moist, r	no odors	Backfilled	
5 – ^{4-8'}	2.5%	0	Clay and Silt: Silty clay	r, brown, hard, dry to m	oist, no odors		
8-12'	50%	1.1				sample collected sample collected,	×
12-16'	100%	0.8				water encountered sample	×
1 5 – 16-20'	7.5%	1.6				collected	
20 - 20-24'	0%	NA	No recovery				
24 -28'	37.5%	0.4	Clay and Silt: Silty clay	r, brown, hard, dry to m	oist, no odors	sample collected	₩
28-32' 30 –	100%	1.0					
			13 T			sample collected	× ×
Proportions Use	ed: Nr	otes:		Blow Count Pentration	on Resistance:	Qu	mbols:
Trace = Few = Little =	ft bg =	feet below grade creening measured in pp	mv	Consistency (M&C) <2 = Very Soft 2-4 = Soft	Density (G&S) 0-4 = Very Loose 4-10 = Loose	Apparent	Water Level ple Location

GES Job #: GES Project Date Drilled: completion Da Drilling Method Sampling Method Surface Elevat Depth to Water Well Diameter: eld Screen (ppm) Clay and Silt: S Clay and Silt: S	ct Mgr: Eric Popken NY 5/3/2017 Split Spot ate: 5/3/2017 Split Spot d: Direct Push/Auger Soil Class hod: MacroCore Field Screet tion: Not Surveyed Abandonic er: 10' Backfill M	Aaterial: Soil Cuttin ment Completion Dat Comment Backfilled sample collected sample sample collected sample sample collected sample	ia: 1.75" ength: Mod. Burnmei eV Lamp (ppmv ckfilled ngs ite: 5/3/2017 Abando De	7) 7
(ppm) G Clay and Silt: S Clay and Silt: S Clay and Silt: S Clay and Silt: S Clay and Silt: S	Silty clay, brown, hard, moist, no odors Silty clay, brown, hard, dry to moist, no o	Backfilled sample collected dors sample <u>callegted</u> collected sample	Its Da	
8 Clay and Silt: S Clay and Silt: S Clay and Silt: S	Silty clay, brown, hard, dry to moist, no or	sample collected sample calleged collected sample) ※ ※ ※ ※ ※	
3	Silty clay, brown, hard, moist, no odors	collected sample	×	
	Silty clay, brown, medium stiffness, moist	collected, water encounterd sample collected		
	onty enzy, orown, meanum surmess, mois	sample collected sample	斑	
0 The second sec	Consistency (M&C) Density	tance: y (G&S) ferv Loose Appa		
9		below grade ing measured in ppmv Blow Count Pentration Resist Consistency (M&C) Densit (2 = Very Soft 2.4 = Soft 4-10 = L 10-30 = N 8-15 = Stiff	below grade ing measured in ppmv Blow Court Pentration Resistance: Consistency (M&C) Density (G&S) -2 = Very Soft 2-4 = Soft 4-10 = Loose 4-8 = Medium 10-30 = Medium	sample collected sample collected sample collected sample collected below grade ing measured in ppmv Elow Count Pentration Resistance: Consistency (M&C) Symbols: Density (G&S) <2 = Very Soft 2.4 = Soft 4.8 = Medium 0.4 = Very Loose 10.30 = Medium Apparent Water Lev Lab Sample Locatio

Groundwa	ter & Env	rironmental	Services, Inc.	ID) NO. SB- 4	5	Page	1 of 1	
Project: NY	SDEC Hig	hland Plaza	Client: NYSDI	EC					
ddress: To	nawanda, I	NY	GES Job #: 090	1703					
ounty: Eri	e County		GES Project Mgr	: Eric Popken	NYSDEC	Site No: C	915293A		
ogged By: Br			Date Drilled: 6/20/20		Split Spoon/Acetat		1.75"		
rilling Compan rill Operator:	y: Empire G Art Koske	Geo Services, Inc.	Completion Date: 6/ Drilling Method: Dire		Split Spoon/Aceta Soil Classification	-	h: od. Burnme	istor	
rill Rig Type:	Geoprobe 662	20 DT	-	MacroCore	Field Screening:	•			
orehole Diame	eter: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	Method: Backfilled			
otal Depth:	32'		Depth to Water: Not	Encountered	Backfill Material:				
efusal Depth:	Not Applical	ble	Well Diameter: Not A	Applicable	Abandonment Cor	nent Completion Date:		7	
epth Sample eet) Interval		Field Screen (ppm)	Geologic	Description		Comments	Abandonmer Detail		
0									
0 0-4'	95%	42.0	Fill: Fill, dark brown, s clay, trace slag, moist	andy silt with gravel,	little sand, trace	Backfilled	凝		
1			Clay and Silt: Fill, darl	c brown to grey, silty on the second	clay, trace sand,	sample sample collected collected	1 M		
_ 4-8'	100%	102	Clay and Silt: Silty cla	y, reddish brown, trace	e sand, trace	collected			
5-4-8	100%	102	gravel, weakly laminat	ed, stiff, dry to moist					
1							闼	•	
-						sample			
8-12'	95%	130				collegted collected			
10 -									
1									
- 12-16'	95%	101	Clay and Silt: Silty clay gravel, massive, soft, n						
-						sample	斑		
15 -						collected			
16-20'	95%	63.8							
-									
. 1									
20	100%	120							
-									
-						sample	選		
25 – ^{24-28'}	100%	3.0	—			collected			
20 -									
-						comulo	X		
- 28-32'	100%	1.2				sample collected			
30 -									
~~						sample collected	X		
-						Joneettu			
Proportions Us Trace =		otes: feet below grade		Blow Count Pentra Consistency (M&C)	ation Resistance: Density (G&S)		mbols:		
Few =	-	Erect below grade Screening measured	n ppmv	<2 = Very Soft	0-4 = Very Loose		t Water Lev ple Locatio		
Little =		0		2-4 = Soft 4-8 = Medium	4-10 = Loose 10-30 = Medium		Looado	n	
Some = Adjective =				8-15 = Stiff 15-30 = Very Stiff	10-30 = Medium 30-50 = Dense				
And =				>30 = Hard	50> = Very Dense	SB-45	F	o. 1 of 1	

orouna	wate	r & Envi	ironmental Se	rvices, Inc.	IL) NO. SB- 4	IU III	Page	1011
-		DEC High awanda, N	land Plaza	Client: NYS GES Job #: 09					
County:					gr: Eric Popken	NYSDEC	Site No: C	915293A	
		don Mikolin		Date Drilled: 6/20		Split Spoon/Acetat		1.75"	
rilling Con	npany:	Empire G	eo Services, Inc.	Completion Date:	6/20/2017	Split Spoon/Aceta	e Sleeve Lengt	h:	
orill Operat		rt Koske		Drilling Method: D	-	Soil Classification		od. Burnmeis	
orill Rig Typ	-	eoprobe 662	0 D I	Sampling Method:	MacroCore	Field Screening:			
Borehole D				Surface Elevation:	۰ ۲			led	
otal Depth				Depth to Water: 1		Backfill Material:	0	(20)2017	
tefusal Dep	1	Not Applicab	1	Well Diameter: No	ot Applicable	Abandonment Cor	npletion Date:	6/20/2017	
		Recovery (inches)	Field Screen (ppm)	Geolog	gic Description		Comments	Abandor De	
0-			· · · · ·						
0	1'	95%	7.2	Fill: Fill, dark grey, dry to moist	sandy silt, some gravel,	little sand, massive,	Backfilled	X	
		1000/	140	Clay and Silt: Silty of laminated, stiff, dry	clay, trace sand and grav to moist	el, weakly	sample collected	×.	
5 ⁴⁻⁸	3'	100%	148				sample	斑	
10 - -	12'	100%	100				collected		•
12- 15 –	-16'	100%	27 C				sample collected	闼	
- ¹⁶⁻ - 20	-20'	100%	1.4	Clay and Silt: Silty of massive, soft, moist	clay with gravel, brown, to extremely moist	trace sand,	sample collected	X	•
- 20-		100%	1.1 1.6				sample	X	
25 -		100%	1.0				sample collected	X	
30 -							sample collected	選	
Desta					Plow Count Dester	tion Desistence:			
Proportion Trace = Few = Little =	is Used	ft bg =	t <u>tes:</u> feet below grade creening measured in p	pmv	Blow Count Pentra Consistency (M&C) <2 = Very Soft	Output Density (G&S) 0-4 = Very Loose 4-10 = Loose 10-30 = Medium	Apparen	<u>rmbols:</u> t Water Leve ple Location	
Some =					8-15 = Stiff	10-50 - Miculum			

roundwa	ter & Env	ironmental S	Services, Inc.	IC) NO. SB- 4	7	Page 1	of 1
roject: NY ddress: To ounty: Eri igged By: Br: illing Company ill Operator: ill Rig Type: orehole Diame	nawanda, N e County andon Mikolin y: Empire G Art Koske Geoprobe 662	NY Seo Services, Inc.	Client: NYSI GES Job #: 09 GES Project Mg Date Drilled: 6/21/ Completion Date: Drilling Method: D Sampling Method: Surface Elevation:	001703 gr: Eric Popken (2017 6/21/2017	NYSDEC Split Spoon/Acetat Split Spoon/Acetat Soil Classification Field Screening: Abandonment Met	e Sleeve Lengt System: M PID, 10.2 eV L	1.75" h: od. Burnmeist amp (ppmv)	er
otal Depth: 3	2'		Depth to Water: N	lot Encountered	Backfill Material:	rial: Soil Cuttings		
efusal Depth:	Not Applicab	ole	Well Diameter: No	t Applicable	Abandonment Cor	mpletion Date:	6/21/2017	
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)	Geolog	gic Description		Comments	Abandonr Deta	
0 -4-8' -4-8' 8-12' 10 -12-16' 16-20'	92.5% 97.5% 87.5% 100%	206 203 >2000 1824 229 465	O asphalt, trace glass d Clay and Silt: Silty c weakly laminated, st strongchemical odor st Clay and Silt: Silty c c Clay and Silt: Silty c c Clay and Silt: Silty c c Clay and Silt: Silty c c	lay, brown, trace gravel:	oist brown, trace sand, moist,	Backfilled sample collected sample collected sample collected sample sample collected sample collected sample collected sample		
20 - 20-24' 24-28'	100% 0%	77 30 NA	massive, soft, moist	to extremely moist		collected sample collected	×	
30	100%	2.1	Clay and Silt: Silty of massive, soft, moist	lay, brown, trace gravel to extremely moist	, trace sand,	sample collected, Duplicate MS/MSD	×	
Proportions Us Trace = Few = Little = Some = djective =	ft bg =	otes: : feet below grade Screening measured i	n ppmv	Blow Count Pentra Consistency (M&C) <2 = Very Soft 2-4 = Soft 4-8 = Medium 8-15 = Stiff 15-30 = Very Stiff	ation Resistance: Density (G&S) 0-4 = Very Loose 4-10 = Loose 10-30 = Medium 30-50 = Dense	Apparen	rmbols: t Water Level ple Location	2

roundwat	er & Env	ironmental S	ervice	es, Inc.	ID	NO. SI	3-48		Pa	ge 1 of 1
roject: NYS	SDEC High	nland Plaza		Client: NYSDEC						
ddress: To	nawanda, N	NY		GES Job #: 0901703						
ounty: Erie	e County			GES Project Mgr: Eric	Popken	NYSD	EC Sit	e No: C	915293	A
gged By: Bra				Date Drilled: 6/21/2017		Split Spoon/A			1.75"	
• • •	/: Empire G Art Koske	Geo Services, Inc.		Completion Date: 6/21/2017 Drilling Method: Direct Push/A		Split Spoon/A Soil Classifica		-	h: o d. Burn	maistar
•	Geoprobe 662	20 DT		Sampling Method: MacroCor	8	Field Screen		D, 10.2 eV L		
orehole Diamet	er: 3"			Surface Elevation: Not Surve	yed	Abandonmer	nt Methoo	d: Backfil	led	
otal Depth: 3	2'			Depth to Water: Not Encounte	red	Backfill Mate	rial: So	il Cuttings		
fusal Depth:	Not Applicat	ble		Well Diameter: Not Applicable		Abandonmer	nt Compl	etion Date:	6/21/2	2017
epth Sample eet) Interval	Recovery (inches)	Field Screen (ppm)		Geologic Description	on		c	comments	Abar	ndonment Detail
0-										
00-4'	100%	0.0		Fill: Fill, black to grey, sandy sile red brick, trace slag debris, moist		little sand, tra	ice Ba	ackfilled		
5 – ^{4-8'}	100%	80.0		Clay and Silt: Silty clay, brown, blocky, medium stiff to hard, mo	trace sand, tra	ace gravel,			X	
0 –	97.5	43.0		Clay and Silt: Silty clay, reddish sand, massive, very stiff, softer b				mple illected		
5 - 16-20'	92.5%	12.3		Clay and Silt: Silty clay, trace gr laminated to massive, medium st extremely moist				mple llected	渕	
20-24'	100%	1.8		Clay and Silt: Silty clay with gra massive, soft, extremely moist	vel, brown, tr	ace sand,				
24-28 '	100%	1.1						mple llected	X	
28-32'	100%	1.9						mple llected	X	
30 - -								mple Ilected	X	.4
Proportions Us	ed:	otes:		Blow C	Count Pentrat	ion Resistanc	e:	<u>^</u>	unale = l ·	
Trace = Few = Little =	ft bg =	<u>otes:</u> - feet below grade Screening measured in	ı ppmv	Consistent <2 = Ver 2-4 = Soft 4-8 = Mer	ry Soft	$\frac{\text{Density (G)}}{0-4 = \text{Very}}$ $4-10 = \text{Loose}$	&S) Loose	<u>Sy</u> Apparent Lab Sam		

Groundwa	ter & Env	ironmental S	ervices, Inc.	IC) NO. SB- 4	19	Page	e 1 of 1
Project: NY	SDEC Higl	nland Plaza	Client: NYSI	DEC				
ddress: To	nawanda, I	NY	GES Job #: 09	01703				
ounty: Eri	e County		GES Project Me	gr: Eric Popken	NYSDEC	Site No: C	915293A	
ogged By: Br			Date Drilled: 6/21/		Split Spoon/Acetat		1.75"	
rilling Compan rill Operator:	· ·	eo Services, Inc.	Completion Date:		Split Spoon/Aceta Soil Classification	•		
rill Rig Type:	Art Koske Geoprobe 662	20 DT	Drilling Method: D Sampling Method:	MacroCore	Field Screening:	PID, 10.2 eV I	od. Burnme .amp (ppmv	
orehole Diame	ter: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	Method: Backfilled		
otal Depth: 3	32'		Depth to Water: N	ot Encountered	Backfill Material:	Soil Cuttings		
efusal Depth:	Not Applical	ole	Well Diameter: No	t Applicable	Abandonment Cor	mpletion Date:	17	
epth Sample eet) Interval		Field Screen (ppm)	Geolog	gic Description		Comments		onment etail
0 0-4'	82.5%	30	slag debris, moist	rey, sandy silt with grav		Backfilled	X	
]		160		elay, reddish brown, trac ff, softer below 15 feet,		sample collected	1 K	
4-8'	100%	652						
5-								.
-						,	X	
- 8-12'	95%	174				sample collected		
-	5570	1/4	— —					
0 -								
-							X	
- 12-16'	100%	75 165				sample collected		
15 -			= =			sample	X	•
16-20'	100%	32	Clay and Silt: Silty c massive, soft, extrem	elay with gravel, brown,	trace sand,	collected		
-								•
20 - 20-24'	100%	2.2						
-								
-						sample	X	
24-28'	100%	1.3				collected		
25-24-20								
-						1	斑	
- 28-32'	100%	2.3				sample collected		
1			:: : :::::::::::::::::::::::::::::::::			sample		•
30 -						collected, Duplicate	X	
						MS/MSD		
Proportions Us		otes:		Blow Count Pentra Consistency (M&C)	ation Resistance: Density (G&S)		/mbols:	
Trace = Few =	-	feet below grade Screening measured in	nnmy	<2 = Very Soft	0-4 = Very Loose		t Water Lev	-
Little =	Field	screening measured If	i hhiin	2-4 = Soft 4-8 = Medium	4-10 = Loose	Lab Sam	ple Locatio	'n
Some =				8-15 = Stiff	10-30 = Medium 30-50 = Dense			
djective =				15-30 = Very Stiff >30 = Hard	50-50 = Dense 50 > = Very Dense	e SB-49		o. 1 of 1

Groundwa	ter & Env	vironmental \$	Services, Inc.	IC) NO. SB-5	50	Pag	e 1 of 1
Project: NY Address: To	-		Client: NYSI GES Job #: 09					
County: Eri	· · · · · ·			gr: Eric Popken	NYSDEC	Site No: C	0152024	
ogged By: Br			Date Drilled: 6/22/		Split Spoon/Acetat		1.75"	
		Geo Services, Inc.	Completion Date:		Split Spoon/Aceta			
rill Operator:	Art Koske		Drilling Method: D	irect Push/Auger	Soil Classification	System: M	od. Burnm	eister
rill Rig Type:	Geoprobe 662	20 DT	Sampling Method:	MacroCore	Field Screening:	PID, 10.2 eV L	amp (ppm	IV)
orehole Diame	eter: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	led	
	32'		Depth to Water: N		Backfill Material:	0		
efusal Depth:	Not Applica	ble	Well Diameter: No	Well Diameter: Not Applicable Abandonment Co		mpletion Date:	6/22/20	017
Depth Sample Teet) Interval		Field Screen (ppm)	Geolog	jic Description		Comments	Abandonm s Deta	
0								
0-4'	85%	0.0	Fill: Fill, dark grey, s asphalt, trace slag, m	sandy silt with gravel, li noist	ttle sand, trace	Backfilled		
1				, silty clay with gravel,	blocky, moist to			
]			extremely moist	lay, dark brown, trace s	and, trace gravel			
5-4-8'	97.5%	0.0	blocky, medium stiff	iness, moist	/			
1				lay, brown, trace sand, softer below 14 feet, m				
1						sample	斑	
8-12'	85%	15.8				collected		•
10 -								
1								
12-16'	100%	3.5						
-						comula	X	
15 -						sample collected		
16-20'	100%	0.0						
]			Clay and Silt: Sity cl soft, extremely mois	ay with gravel, brown,	trace sand, massive,			
-				L				
20 – 20-24'	100%	2.8						
1								
4							X	
24-28'	100%	1.0				sample collected		
25 - 25								
							X	
- 28-32'	100%	1.8				sample collected		
-	10070	1.0						•
30 -						sample	斑	
						collected		•
Proportions Us Trace =		<u>otes:</u>		Blow Count Pentr Consistency (M&C)	ation Resistance: Density (G&S)		mbols:	
Few =		= feet below grade Screening measured	in ppmv	<2 = Very Soft	0-4 = Very Loose		t Water Le ple Locati	
Little =				2-4 = Soft 4-8 = Medium	4-10 = Loose		pic LUCall	on
Some = Adjective =				8-15 = Stiff 15-30 = Very Stiff	10-30 = Medium 30-50 = Dense			
And =				>30 = Hard	50> = Very Dense	sB-50		p. 1 of 1

Grou	ndwat	er & Env	ironmental Se	rvices, Inc.	IC) NO. SB-	51	Page	1 of 1
Proje	ct: NYS	DEC High	ıland Plaza	Client: NYSD	DEC				
Addre	ess: Ton	awanda, N	NY	GES Job #: 09	01703				
	ty: Erie			GES Project Mg	r: Eric Popken	NYSDEC	Site No: C	915293A	
Drilling Drill Op	Company: erator:	ndon Mikolin Empire G Art Koske Geoprobe 662	eo Services, Inc.	Date Drilled: 6/22/2 Completion Date: 0 Drilling Method: Di Sampling Method:	6/22/2017	Split Spoon/Aceta Split Spoon/Aceta Soil Classification Field Screening:	te Sleeve Lengt	od. Burnmei	
Boreho	le Diamete	er: 3"		Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	lled	
otal D	epth: 24			Depth to Water: N	ot Encountered	Backfill Material:	erial: Soil Cuttings		
Refusal	Depth:	Not Applicab	ble	Well Diameter: Not	Applicable	Abandonment Co	mpletion Date:	6/22/2017	,
Depth feet)	Sample Interval	Recovery (inches)	Field Screen (ppm)	Geolog	ic Description		Comments	Abandoi De	nment tail
0-	0-4'	100%	1.8	ceramic debris, moist	andy silt with gravel, li ay, dark grey to brown.		Backfilled sample collected	選	
5-	4-8'	100%	157	sand, blocky to massi		, trace sand,	sample collected	斑	•
- - 10	8-12'	100%	49.0				sample collected	斑	
10 - - - - 15 -	12-16' 16-20'	100%	9.0		ay with gravel, brown,	trace sand,	sample collected, Duplicate sample collected	X	
20 -	20-24'	100%	0.0	massive, soft, extrem	ely moist		sample collected	闼	
-							sample collected	X	
Propo	rtions Use	d. M			Blow Count Pentra	ation Resistance:	-	unde a la	
Trace Few Little Som	; = v = =	ft bg =	btes: feet below grade Screening measured in	opmv	1000000000000000000000000000000000000	Density (G&S) 0-4 = Very Loose 4-10 = Loose 10-30 = Medium	Apparen	vmbols: It Water Leve uple Location	
	ve =				15-30 = Very Stiff	30-50 = Dense			

Grou	Indwat	er & Env	ironmental s	Services, Inc.	IC) NO. SB-5	2	Page 1 of 1
Proje	ct: NYS	DEC High	nland Plaza	Client: NYSI	DEC			
Addre	ess: Tor	nawanda, N	NY	GES Job #: 09	01703			
Coun	ty: Erie	County		GES Project Mg	gr: Eric Popken	NYSDEC S	Site No: C	915293A
		ndon Mikolin		Date Drilled: 6/22/		Split Spoon/Acetate		1.75"
-		: Empire G Art Koske	eo Services, Inc.	Completion Date: Drilling Method: Di		Split Spoon/Acetate Soil Classification S	-	h: od. Burnmeister
		Geoprobe 662	20 DT	Sampling Method:	MacroCore	Field Screening:	PID, 10.2 eV L	
Boreho	le Diamete	er: 3"		Surface Elevation:	Not Surveyed	Abandonment Meth	nod: Backfil	led
Fotal D	epth: 24	t,		Depth to Water: N	ot Encountered	Backfill Material:	Soil Cuttings	
Refusa	Depth:	Not Applicat	ble	Well Diameter: No	t Applicable	Abandonment Com	pletion Date:	6/22/2017
Depth	Sample	Recovery	Field Screen	Geolog	ic Description		Comments	Abandonment
feet)	Interval	(inches)	(ppm)		,			Detail
0-		1						T T
-	0-4'	95%	10	Fill: Gray, silt, many moist	gravel, trace sand, trace	e clay and asphalt,	Backfilled	X
-				Silt: Silt, brown, trac	e sand, blocky, moist		sample collected	
								x x x x x x x x x x x x x x x x x x x
5-	4-8'	100%	148		e sand and gravel, weak v 14.5', slight odor prese		sample collected	
-				· _ ·	· · · · · , • · · 8· · · • • · · F · • •			
-				<u></u>			sample	⊠
]	8-12'	100%	76	· · · · ·			collected, Duplicate	
10 -				<u></u>			MS/MSD	
-				· <u>· · · ·</u>				X
-	12-16'	95%	280	· · · · ·			sample collected	
				· · · ·			concered	
15 –				<u></u>			sample collected	
-	16-20'	90%	>2000				conceted	
-	10 20		2000	<u> </u>				
1					trace sand and gravel, v	vet at fracture,		
20 –	20-24'	100%	407		possible PCE chemical e gravel, trace sand, mas	wive coff	sample	
-	20-24	100%	407	extremely moist	e graver, irace sanu, mas	551vC, 5011,	collected	
-				· · · · ·			cample	
-			40	·····			sample collected	
				-				
Propo Trace	rtions Use		otes:		Blow Count Pentra Consistency (M&C)	ation Resistance: Density (G&S)		mbols:
Fev			feet below grade Screening measured	n ppmy	<2 = Very Soft	0-4 = Very Loose		t Water Level 🛫
Little		1 leid 2	sereening measured	m bhun	2-4 = Soft 4-8 = Medium	4-10 = Loose	Lap Sam	ple Location
Som					8-15 = Stiff	10-30 = Medium 30-50 = Dense		
Adjecti	ve =				15-30 = Very Stiff >30 = Hard	50 > = Very Dense	SB-52	p. 1 of 1

Ground	dwate	er & Envi	ironmental Se	rvices, Inc.	IC) NO. SB-5	53	Page 1 of 7		
Project:	NYS	DEC High	land Plaza	Client: NYSD	EC					
Address: Tonawanda, NY				GES Job #: 090	1703					
County: Erie County				GES Project Mgr	: Eric Popken	NYSDEC	Site No: C	915293A		
Logged By: Brandon Mikolin Drilling Company: Empire Geo Services, Inc. Drill Operator: Art Koske Drill Rig Type: Geoprobe 6620 DT				Completion Date: 6 Drilling Method: Dir	Drilling Method: Direct Push/Auger Soil Classification			ate Sleeve Length: n System: Mod. Burnmeister		
Borehole Diameter: 3"				Surface Elevation:	Not Surveyed	Abandonment Me	thod: Backfil	led		
otal Dept	th: 24	,		Depth to Water: No	t Encountered	Backfill Material:	Soil Cuttings			
efusal De	epth:	Not Applicab	le	Well Diameter: Not	Applicable	Abandonment Cor	mpletion Date:	6/22/2017		
	ample nterval	Recovery (inches)	Field Screen (ppm)	Geologic	Description		Comments	Abandonment Detail		
0	-4'	92.5%	107	Topsoil: Topsoil, dark gravel, trace organic n	natter, moist		Backfilled sample	x · · ·		
-			>2000	Clay and Silt: Silty cla to weakly laminated, r			collected	x x x x x x x x x x x x x x x x x x x		
5-4-	-8'	100%		Clay and Silt: Silty cla weakly laminated, ver			sample collected			
- - 8- 10 -	-12'	100%	>2000 766				sample collected, Duplicate			
-	2-16'	100%	163				sample collected sample	X A		
15 - - - -	6-20'	100%	90.0		Clay and Silt: Silty clay with gravel, brown, trace sand, massive, soft, moist to extremely moist					
20 – 20	0-24'	100%	3.0				sample collected			
							sample collected	× ×		
Droportio		de la companya de la			Blow Count Pentra	ation Resistance:	_			
Proportions Used: Notes: Trace = ft bg = feet below grade					Consistency (M&C) Density (G&S)			<u>Symbols:</u> Apparent Water Level		
Few = Little = Some =		-	creening measured in j	pmv	<2 = Very Soft		Lab Sample Location			
Adjective					15-30 = Very Stiff	30-50 = Dense				
And =					>30 = Hard	50> = Very Dense	e SB-53	p. 1 of 1		

Foundw	ater & Env	vironmental Se	vices, Inc.	ID N	o. SB-5	4	Page	1 of 1			
Project: N	YSDEC Hig	hland Plaza	Client: NYSDEC								
ddress: 1	Fonawanda, I	NY	GES Job #: 0901703	;							
County: E	rie County		GES Project Mgr: E	GES Project Mgr: Eric Popken NYSDEC Site No: C915293							
	Brandon Mikolir		Date Drilled: 6/20/2017								
rilling Compa rill Operator:		Geo Services, Inc.	Completion Date: 6/20/20	Completion Date: 6/20/2017 Split Spoon/Aceta Drilling Method: Direct Push/Auger Soil Classification				stow			
rill Rig Type:		20 DT	-	0	ld Screening:		od. Burnmeis amp (ppmv)				
orehole Dian	neter: 3"		Surface Elevation: Not S	Surveyed Ab	andonment Met	hod: Backfil	led				
otal Depth:	32'		Depth to Water: Not Enco	ountered Ba	ckfill Material:	Soil Cuttings					
efusal Depth	: Not Applical	ble	Well Diameter: Not Appli	cable Ab	andonment Con	pletion Date:	6/20/2017	7			
Depth Samp feet) Interv		Field Screen (ppm)	Geologic Des	cription		Comments	Abandor De	nment etail			
0_0-4'	100%	0.0	Fill: Fill, light brown, sandy brick and concrete debris, d	ry to moist		Backfilled	X				
5 - ^{4-8'}	97.5%	40.6	Clay and Silt: Silty clay, red stiff, dry to moist, slight odd		d and gravel,	sample collected					
8-12'	100%	62.0				sample salleated collected	X				
12-16 15 –	5' 100%	5.0	Clay and Silt: Silty clay, rec stiff, dry to moist, slight odd	d and gravel,	sample	X					
16-20)' 100%	59.0		Clay and Silt: Silty clay, brown, trace gravel, trace sand, massive, soft, extremely moist							
20 - 20-24 - 20-24 - 24-28		0.5				sample collected	æ	•			
28-32	2 100%	0.0				sample collected	斑				
30 -						sample collected	選				
Dronati	laad			ow Count Dostrotion	Posistanos	_					
Proportions (Trace = Few = Little = Some =	ft bg =	<u>otes:</u> = feet below grade Screening measured in p	0mv 22 2-4 = 4-8 =	= Very Soft = Soft = Medium	Resistance: Density (G&S))-4 = Very Loose 10 = Loose 30 = Medium	Apparent	<u>mbols:</u> t Water Leve ple Location				
bonne				= Stiff							