Supplemental Remedial Investigation/Feasibility Study Work Plan

for the

Ilion (East St.) Former MGP Site Ilion, Herkimer County, New York

Prepared for

nationalgrid

Prepared by



February 2006

1.0 Purpose

The purpose of this Supplemental Remedial Investigation/Feasibility Study (RI/FS) Work Plan is to present an approach for data gathering activities that will allow further delineation of MGP-related contaminants in soil and groundwater in the northern portion of the Ilion (East St.) Former MGP Site (the Site) and that will provide confirmation that impacts observed in the open swale are not related to the former MGP. The supplemental soil investigation activities are designed to address gaps in the data required to complete the Feasibility Study. The supplemental groundwater investigation is designed to address data gaps identified in New York State Department of Environmental Conservation (NYSDEC) correspondence dated October 5, 2005 and further discussed in the response letter from National Grid dated November 9, 2005. The supplemental swale investigation activities are designed to address NYSDEC comments presented in a letter dated December 22, 2005.

The objective of the additional soil investigation will be to improve the delineation of MGP-related impacts on-site. The objective of further groundwater delineation will be to determine if the northern edge of the groundwater plume extends off-site near the dwelling at 214 Clark Street. The objective of the additional activities in the area of the open swale is to further confirm that impacts identified in the open swale are not-related to the former MGP, but rather are related to other more local sources.

2.0 Scope of Work

This section describes the tasks to be performed as part of the Supplemental Remedial Investigation to address the Site data gaps. The investigation activities presented herein will be performed in accordance with previously submitted documents (e.g., RI Work Plan, Generic Field Sampling Plan, Generic Quality Assurance Project Plan, and Generic Health and Safety Plan).

2.1 Soil Borings to Delineate On-site Soil Impact

Elevated PAH concentrations (i.e., above a screening value of 500 ppm based on the Recommended Soil Cleanup Objective for total semivolatile organic compounds in NYSDEC Technical and Administrative Guidance Memorandum [TAGM] 4046) and blebs of NAPL were observed within and adjacent to the footprint of the former 200,000 cubic foot gas holder at soil borings SB-08 and SB-15 between 8 and 10.5 feet bgs and 8 and 10 feet bgs, respectively. Additional data are required to better assess the extent of NAPL within and adjacent to the former holder footprint.

Three soil borings (TTSB-03 through TTSB-05) will be installed within/adjacent to the former 200,000 cubic foot gas holder to further delineate the impacted soil in this area (see Figure 2-1). Soil borings will be installed via hollow stem auger methods and will be continuously logged. Soil borings TTSB-03 and TTSB-04 will be advanced to a maximum depth of 16 feet bgs and soil boring TTSB-05 will be advanced to a maximum

depth of 20 feet bgs. Two soil samples will be collected from the interval between 8 feet and the bottom of the boring (based on field screening results and visual observations) and submitted for PAH analysis. If evidence of impacts is observed at proposed maximum depths, soil borings will be advanced deeper, additional samples may be collected, and contingency borings will be advanced. Contingency borings will be advanced to depths sufficient to delineate impacts observed in adjacent borings and will be sampled based on field screening results and visual observations. Contingency borings for locations TTSB-03 and TTSB-04, if necessary, will be advanced just outside the footprint of the former 200,000 cubic foot gas holder. The contingency boring location associated with the TTSB-05 soil boring, if necessary, will be positioned approximately 10 feet to the northeast. The locations of the potential contingency borings are displayed on Figure 2-1.

2.2 Evaluation of Groundwater Flow and Delineation of Impacted Groundwater

Cyanide has been detected at concentrations exceeding the New York State Groundwater Quality Criteria (NYSGWQC) in samples collected from monitoring well MW-07, located near the downgradient site property boundary, for four out of five sampling events. During the most recent event in September 2004, cyanide was not detected in the groundwater sampled from MW-7. To further evaluate the northern edge of the plume more precisely, one monitoring well (MW-12) will be installed along the northwestern edge of the Site adjacent to the property at 214 Clark Street. Figure 2-1 depicts the anticipated location of the proposed monitoring well. The screened interval for this well will be across the water table and across a stratigraphic horizon equivalent to that which is screened at MW-7.

To improve the understanding of groundwater flow and groundwater quality in the sand and gravel (kame) unit, and the lateral limits of the cyanide plume, one monitoring well (MW-13) will be installed adjacent to monitoring well MW-11 and screened within the kame unit, from approximately 16 to 26 feet bgs.

The newly-installed monitoring wells MW-12 and MW-13 and existing monitoring wells MW-03, MW-04, MW-07, MW-08, MW-09 and MW-11 will be sampled for total cyanide. In addition, monitoring well MW-12 will be sampled for benzene, toluene, ethylbenzene, and xylene (BTEX). Prior to the collection of groundwater samples, a round of synoptic water level measurements will be collected.

2.3 Swale Investigation

The off-site component of the RI has included the evaluation of an area located northnortheast of the former MGP site, positioned north of the East North Street extension and east of East Street, as well as the segment of a storm sewer that is positioned between this area and the former MGP site. Data collected during the RI indicate that, locally, there are impacts related to the former MGP in parts of this off-site area. These MGPrelated impacts are limited to the area south of the open swale, which is located in the northern part of the off-site study area. Based on available information, as summarized in Attachment 1, impacts identified in and adjacent to the open swale (e.g., sheens, elevated concentrations of PAHs) are apparently the result of petroleum contamination from local sources and not the former MGP. These local sources include: stormwater sewer drainage to the swale from roads and numerous commercial, industrial and residential properties; the disposal area adjacent to the swale (including the former Ilion landfill); the former railroad bed (now occupied by Route 5S); and operations at the adjacent Village of Ilion Department of Public Works (DPW) facility.

In a letter dated December 22, 2005, NYSDEC stated that they conclude "...that MGP contaminants exist in the off-site area, which are co-mingled with contaminants of non-MGP origin". The NYSDEC further stated that they expect "...the forthcoming Feasibility Study will include as remedial objectives the restoration of the soil to Department guidance values to the extent practicable and the prevention of sheens to the surface water in the swale". However, as stated above, the available data and information provided in the RI Report (Tetra Tech, March 2005), and summarized in Attachment 1, indicate that the sheens and other impacts in the open swale area are not related to former MGP operations.

2.3.1 Field Reconnaissance and Collection of Background Information

Prior to the collection of samples, as described below, a detailed field reconnaissance of the open swale and surrounding area will be conducted to document:

- The nature and composition of the banks and bottom of the swale;
- Location and character of visible impacts, such as sheens and seeps, if any;
- Points of discharge to the swale, such as pipes, culverts, seeps, etc;
- Conditions on land surrounding swale that contributes stormwater flow to the swale; and
- Other observations pertinent to assessing the source of impacts in the open swale.

Noted features will be surveyed via GPS for inclusion on a figure of the swale area. A photographic log of the reconnaissance will be prepared upon completion of the reconnaissance.

Efforts will also be made to collect information that may improve the understanding of characteristics and function of the open swale, both currently and historically, including:

- Additional information regarding the storm drain network that discharges to the open swale, including laterals and catch basin locations; and
- Village of Ilion's swale maintenance practices.

2.3.2 Sampling and Analysis

The focus of the supplemental sampling and analysis program will be to confirm that the source of hydrocarbon impacts in the open swale area is associated with petroleum releases that are unrelated to the former MGP operations. The supplemental sampling and analysis program will target the open swale area south of Route 5S. North of Route 5S, observed and measured impacts are substantially less than to the south, as discussed in the summary provided in Attachment 1. Note that the sampling program described below may be adjusted based on the findings of the field reconnaissance or background information. Such changes, if any, will be reviewed with NYSDEC.

The supplemental sampling will include two components, as follows.

- 1. The first component will target the shallow sediments in the swale (i.e., 0- to 2-feet below the sediment/water interface) to provide additional data to further characterize the source of impacts in these intervals, as well as the nature and level of these impacts.
- 2. The second component will address the deeper soil/sediment beneath and adjacent to the open swale. Locations and depths where previous studies indicated relatively high concentrations of PAHs and/or the presence of sheens, but where source fingerprint analyses were not previously conducted, will again be sampled to gather information related to the source of the PAHs.

Supplemental swale sediment samples will be advanced by direct push methods. Table 2-1 lists the planned sample locations and depth intervals, as well as a description of the purpose of the planned location. The planned sample locations are shown on Figure 2-2. As mentioned above, some locations may be adjusted based on the findings of the field reconnaissance or background information. Adjustments, if any, will be documented and discussed with NYSDEC.

Sediment and/or soil samples will be analyzed for PAHs, source fingerprinting with high-resolution gas chromatography, and total organic carbon.

2.4 Surveying

The services of a New York State licensed land surveyor will be retained to survey the vertical and horizontal locations of the new soil borings, monitoring well, and swale area samples. The elevation of reference point (the top of the well casing) will also be surveyed so that groundwater elevations and flow direction can be determined.

3.0 Remedial Investigation Report Addendum

Upon completion of the supplemental investigation activities discussed above, a Remedial Investigation Report Addendum will be prepared and submitted to the

NYSDEC. The Remedial Investigation Report Addendum will presents the validated soil, sediment, and groundwater sample analytical results, boring logs, well construction diagrams, the photographic log of the swale reconnaissance, an updated figure of the swale area showing locations of features identified during the reconnaissance, and a summary of findings.

4.0 Schedule

The following schedule is presented.

Task	Approximate Anticipated Time Frame
Commence Field Activities	Within 30 days of NYSDEC approval of Supplemental RI/FS Work Plan and securing/confirming access to off-site properties
Field Activities and Laboratory Analysis	60 days
Data Validation	Within 30 days of receipt of laboratory data
Submittal of RI Report Addendum	Within 60 days of receipt of validated data

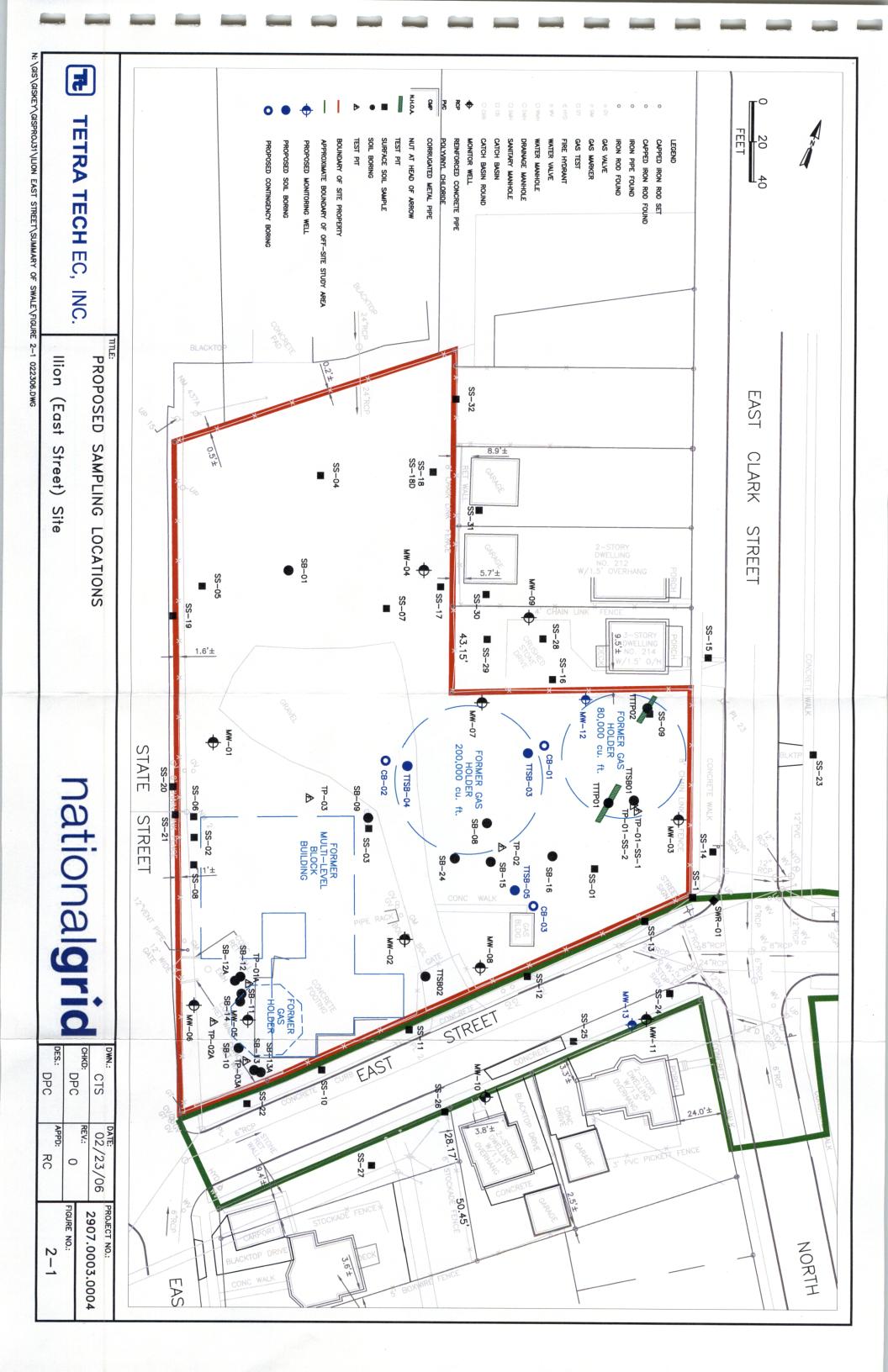
5.0 References

Remedial Investigation/Feasibility Study Work Plan for Niagara Mohawk Power Corporation's (NMPC) Ilion (East Street) Site, June 1999.

Generic Field Sampling Plan for Site Investigations at Manufactured Gas Plants, November 2002.

Generic Environmental Health and Safety Plan for Site Investigations at Manufactured Gas Plants, November 2002.

Generic Quality Assurance Project Plan for Site Investigations at Manufactured Gas Plants, November 2002.



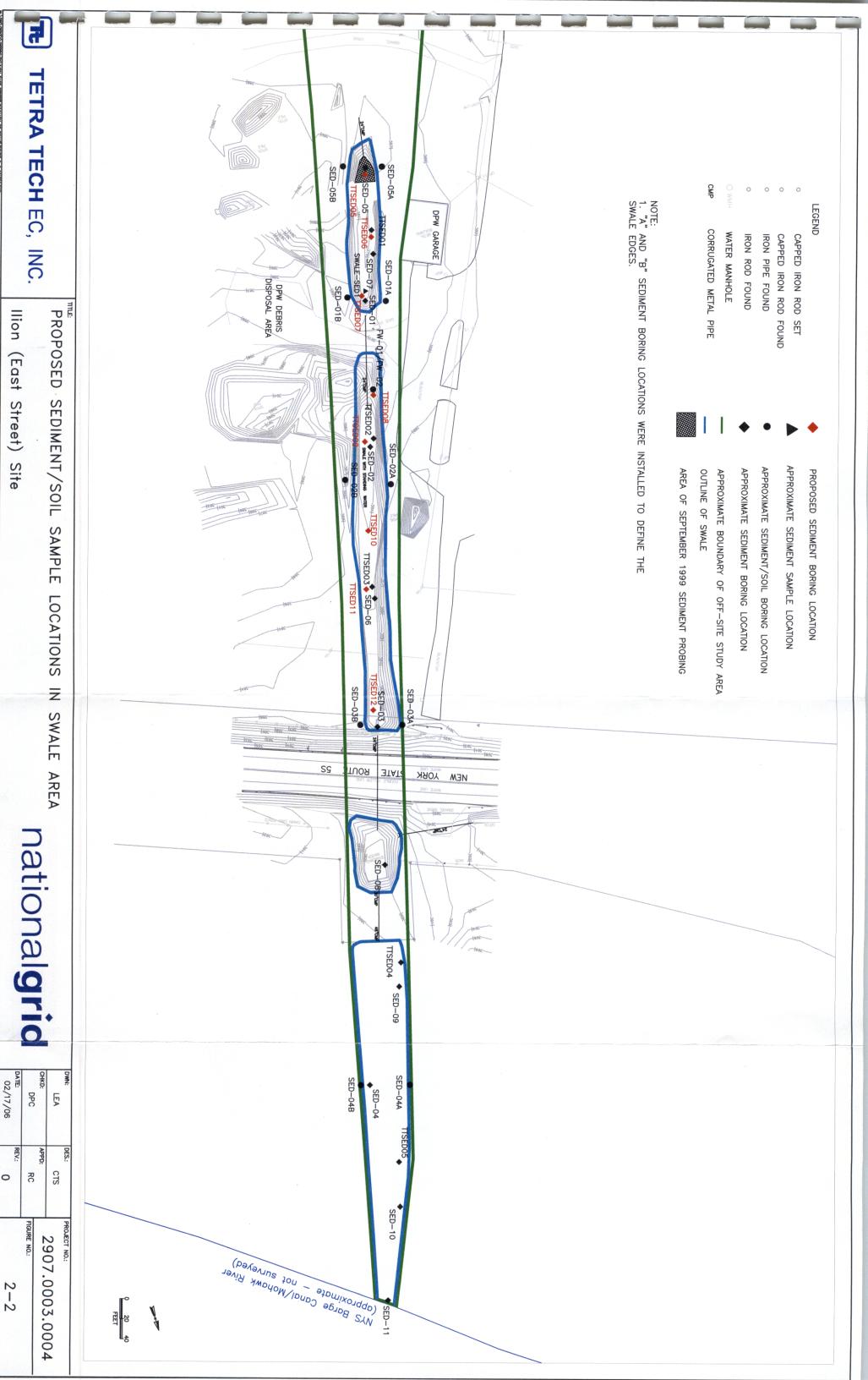
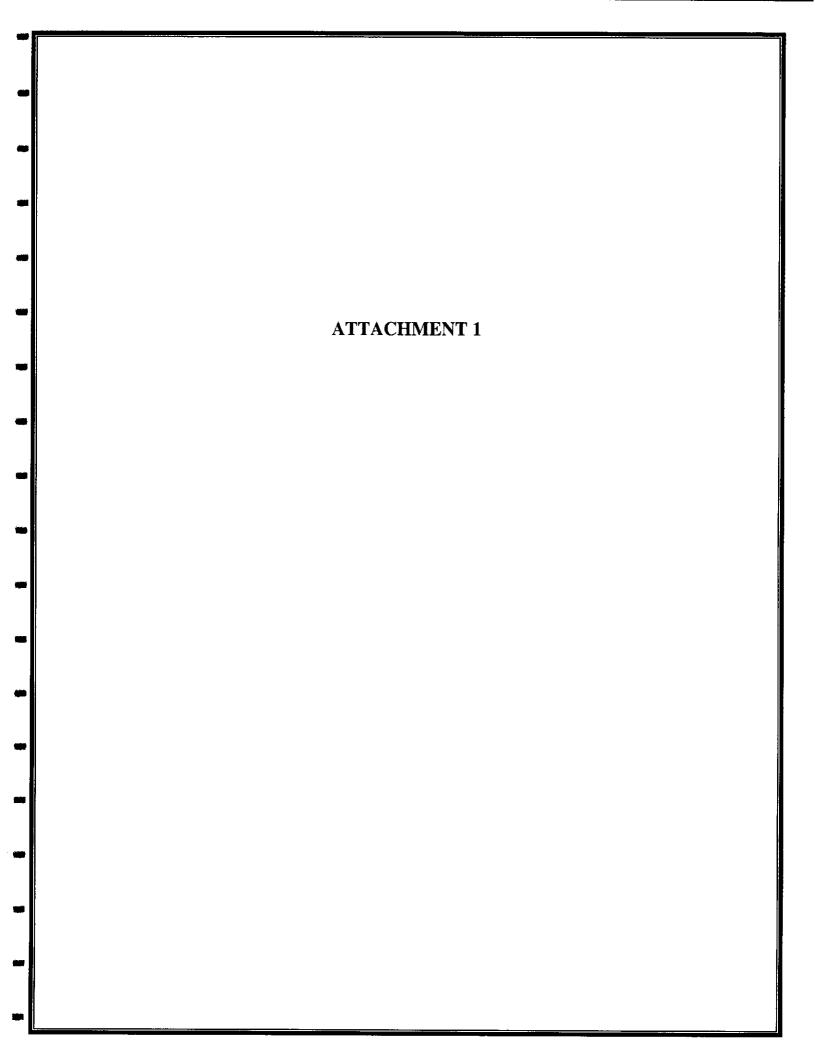


TABLE 2-1
SEDIMENT AND SOIL SAMPLING PROGRAM
OFF-SITE OPEN SWALE AREA
Ilion (East Street) Former MGP

Planned Sample		Depth Interval	
Identification (a)	Location	(teet) (p)	Purpose and Notes
TTSED05	In approximate area of	0-2	Shallow sediments near outfall of storm sewer where sheens have been observed in approximate area of SED-05
	SED-03	4	To assess source of PAHs detected at SED-05 (4 ft.)
	In middle of first swale		
TTSEDOE	segment, proximal to	6-0	ncrease challow cample coverage
1135000	ו סבומים ומסמוומון	2-0	more an amore coverage
TTSED07	North end of first swale	0-5	Increase shallow sample coverage
	SED-01	4	To assess source of PAHs detected at SED-01 (4 ft.)
TTSED08	Proximal to FW-02	æ	To assess source of PAHs detected at FW-02 (8 ft.)
	Near southern end of	0-2	To assess source of PAHs detected at TTSED02
TTSED09	second swale segment	4	To assess source of PAHs detected at SED-02 (4 ft.)
	In middle of second		
TTSED10	swale segement	0-2	Increase shallow sample coverage
TTSED11	Proximal to TTSED03	0-2	To assess source of PAHs detected at TTSED03
	North end of second		
TTSED12	swale segment	0-2	Increase shallow sample coverage

Notes:

(a) Sample locations may be adjusted based on findings of field reconnaissance. (b) Feet below sediment/water interface or grade.



1.0 INTRODUCTION

National Grid has compiled this concise summary of investigations conducted in the open swale, located within the off-site study area of the Ilion (East Street) Site. Section 2.0 contains a description of the swale and swale area; Section 3.0 describes the scope of the work performed during the swale investigations; Section 4.0 describes the physical results of the swale investigations; Section 5.0 presents analytical results; and Section 6.0 summarizes the conclusions of the investigations performed.

2.0 SITE DESCRIPTION

The open swale is an approximately 1,100 foot long linear feature located within the off-site study area of the Ilion (East Street) Site (Figure 2-1). The open swale begins approximately 1,500 feet north-northeast of the Site, at the outfall of a 24-inch culvert for a storm sewer extending from the Site vicinity. This storm sewer line collects drainage from streets (including Main Street) and commercial, industrial and residential properties along these streets, located south of the open swale. The open swale in turn discharges to the Mohawk River. The open swale is comprised of four segments separated by culverts. The first and second segments are positioned south of New York State Route 5S. The open swale passes underneath Route 5S, which is located along a former railroad line. The third and fourth segments are located north of Route 5S, with the end of the fourth segment terminating at the confluence of the swale with the Mohawk River. North of Route 5S, another 24-inch pipe enters the third segment of the open swale from the west. This pipe drains a ditch running parallel to the north side of Route 5S. A ditch draining the DPW debris disposal area to the east enters the swale at the southern end of the second segment.

The open swale is positioned within a relatively low-lying area that includes portions of the former Ilion landfill, an open parcel of land, approximately 25 acres in size, to the northeast of the Site (EA, 1988). The limits of the former Ilion landfill are shown in Figure 2-1. The former landfill site was used by the Village of Ilion between 1933 and 1971 as a dump to dispose of municipal waste, including wastes from Remington Arms and other local industries. The area currently occupied by the Village of Ilion Department of Public Works (DPW) is situated within the former Ilion landfill, and both sides of the open swale abut the former disposal area. South of Route 5S, the swale is positioned adjacent to the garages and debris disposal area for the DPW. The area west of the swale and north of Route 5S was also formerly a sewage disposal plant (Figure 2-1). The field on the north side of East North Street Extension, just south of the beginning of the open swale, is an area in which refuse was formerly deposited and in which construction debris is currently being disposed.

Based on the urban setting of the swale, the storm sewer that discharges to it, and the landfill abutting the banks of the swale, there are many potential sources of petroleum type impacts to the sediments within the swale. The sources include the Ilion DPW, as evidenced by a waste oil/used oil spill that was reported by NYSDEC in June 2000 (Appendix A). In addition, petroleum-type impacts may originate from Route 5S, and the

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former railroad bed on which Route 5S is located may provide petroleum and pyrogenic type impacts to the swale. Pyrogenic type impacts may originate from wooden ties treated with creosote, a coal tar derivative. Backwash from the Mohawk River, particularly during flood events, could cause contaminants entering the swale in the vicinity of Route 5S to migrate south toward the head of the swale.

3.0 SCOPE OF WORK

Collection of data to evaluate the swale and surrounding area was conducted over five rounds of RI field activities. These activities are described below. Sample locations are depicted on Figure 3-1.

September 1999

Sediments in the south end of the first segment of the open swale, near the outfall of the 24-inch culvert, were manually probed. The probing consisted of advancing a 9-foot long threaded rod downwards until it could be advanced no further. The rod was then pulled up from the sediments and the rod was screened for odors at various depths. Special attention was given to observing the development of sheens on the water surface. The rod was advanced to depth at approximately 15 locations within 25 feet of the outfall of the pipe (see Figure 3-1). At most locations, the full nine feet of rod were advanced into the soft sediments. The sediment probing resulted in the generation of several local sheens on the standing stagnant surface water within the swale. Odors on the rod were identified as being distinctly petroleum-related rather than coal tar-like. These odors were consistently observed in nearly all 15 of the probing locations and varied in depth, sometimes being detected at multiple locations on the rod per probe location (December 1999 Draft Offsite Storm Water Swale Investigation Summary Report).

December 1999

During visual inspection of the open swale, a localized sheen was observed on sediments. A sample of the sheen-impacted sediment (SWALE-SED1)was collected on December 14, 1999 as part of the RI investigation and was analyzed for source fingerprinting (May 2002 Supplemental Off-Site Stormwater Swale Investigation Summary Report).

January/February 2001

A total of 21 borings were completed over 11 transects (transects SED-01 through SED-11) to evaluate the sediments, and soil beneath the sediments, in the open swale that leads to the Mohawk River. Transects SED-01 through SED-05 consisted of three locations each: one location in the swale and two locations on the top of the swale banks – one on either side of the swale. The locations on the top of the swale banks were installed to define the edges of the swale. Transects SED-06 through SED-11 consisted of one location each positioned within the swale. Borings were advanced to between 8 ft bgs and 20 ft bgs utilizing direct push soil probing from January 3 through February 22, 2001. The 41 soil/sediment samples collected were analyzed for BTEX and PAHs (34 samples);

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VOCs and SVOCs (5 samples); source fingerprinting (8 samples); or PCBs, metals, total cyanide, and the following physical parameters: bromate, total petroleum hydrocarbons (TPH), heat quantity (BTUs), and sulfur (2 samples) (July 2001 Data Summary and Work Plan Addendum).

October 2004

Five sediment cores (TtSED-01 through TtSED-05) were advanced and sampled to evaluate the extent and concentration of PAHs in shallow (0 to 2 feet bgs) sediment and to evaluate physical properties of the sediment. The borings were advanced by manually pushing direct push sampler liners into the sediments. One sediment sample was collected from each core for PAH analysis. Three geotechnical samples were collected for grain size distribution, specific gravity, organic content, water content, and Atterberg limits (if silt or clay). The geotechnical samples were collected from sediment borings TtSED-01, TtSED-03, and TtSED-05. The results of the PAH and geotechnical analyses are presented in the March 2005 Remedial Investigation Report for the Ilion (East Street) Site (RI Report).

4.0 PHYSICAL CHARACTERISTICS

The shallow swale sediments typically consist of silt, clay, and silty sand with abundant organic matter (e.g., leaves) and occasionally peat. These sediments overlie peat/organic material layer(s) and alluvial or lacustrine deposits comprised by silt, sand, and/or clays, frequently containing shells of small aquatic animals. On the banks of the swale, fill materials typically overlie the peat/organic layer. The fill materials range up to approximately 12 feet in thickness and are composed of sand, silt, clay, gravel, reworked peat, and anthropogenic material such as ash and brick. Logs for the borings are provided in Appendix B. Table 1 summarizes visual and olfactory descriptions that were noted in boring logs and log book notes.

September 1999 sediment probing resulted in the generation of several sheens on the standing water in the swale upon rod removal. Odors noted during the sediment probing were noted as being petroleum-like. Locations of sheens observed on sediment probes and boring soils are identified on Figure 3-1.

5.0 NATURE AND EXTENT OF IMPACTS

Over 40 soil and sediment samples were collected from the borings advanced in, or adjacent to, the swale. A majority of these samples were analyzed for BTEX and PAH constituents. Other samples underwent analysis for NYSDEC ASP TCL VOCs and SVOCs, and for metals, cyanide, PCBs, and physical parameters to determine composition and disposal parameters. Tabulated results are presented in Tables 2 through 11.

3

5.1 Shallow Sediment

Samples collected during the 2004 activities, TTSED-01 through -05, focused on shallow sediments in the swale. These samples were collected from 0- to 2-feet below the sediment/water interface along the length of the swale, and were analyzed for PAHs. The only other analytical sample from this interval was from SWALE-SED01, which was collected in the first swale segment and was subjected to fingerprint analysis. However, at each of the boring locations in the swale, descriptions of the samples from the shallow interval were made, including visual or olfactory indicators of contamination, even if no samples were submitted for analysis.

In the first and second segments of the swale, south of Route 5S, the total PAH concentrations in the shallow sediment range from 8.6 to 208 mg/kg. The fingerprint analysis from SWALE-SED01 indicates that the PAHs are related to degraded fuel oil (see Table 11). This is supported by the petroleum-like odors noted during sample collection and sediment probing in these two segments (see Table 1).

North of Route 5S, the PAH concentrations in the shallow sediments are much less than to the south, ranging from not detected to 2.5 mg/kg. Where odors were noted in the shallow sediments, they were described as petroleum and/or organic. Locally, sheens were observed on the surface of the swale sediments near the sampling locations. No fingerprint analysis was conducted on the shallow (0- to 2-foot) sediments, but data from deeper samples (between 3 and 5 feet) indicated the detected PAHs are related to degraded fuel oil.

5.2 Deeper Soil/Sediment

In the deeper soil/sediment below and adjacent to the swale, samples from various depths ranging from 3 to 20 feet below grade were submitted for analysis of BTEX and PAHs; VOCs and SVOCs; source fingerprinting; or PCBs, metals, total cyanide, and the following physical parameters: bromate, TPH, BTUs, and sulfur.

South of Route 5S, in the samples from depths of 3 and 4 feet, total PAH concentrations ranged from 0.138 to 819 mg/kg, and total BTEX concentrations, where detected, are low, ranging from not detected to 3.7 mg/kg. Below four feet, the total PAH concentrations are generally lower, ranging from not detected to 123 mg/kg, except location FW-02 (1,015 mg/kg at 8-ft depth). BTEX concentrations remain low in this interval, ranging from not detected to 6.5 mg/kg. Fingerprint analysis of the sample from a depth of 4 feet at location SED-05 and from depth of 5 feet at SED-03B indicated the PAHs are associated with degraded fuel oil. In the interpretation of the fingerprint analysis at SED-03B, it was noted that there was also a possibility that a subordinate contribution from coal tar was present, although the evaluation was not conclusive. Petroleum-like odors were described at several of the sample locations, including in the sample intervals with the highest total PAH concentrations.

North of Route 5S, total PAH concentrations in the samples from 3 and 4 feet were less than to the south, ranging from not detected to 44.6 mg/kg. The deeper samples showed a general further decrease in concentration, ranging from not detected to 11.7 mg/kg. In both intervals, total BTEX was either not detected or was detected at very low concentrations (up to 0.34 mg/kg). Available fingerprint analyses indicated the detected PAHs are related to degraded fuel oil. Petroleum-like odors were also noted in some of the samples.

Other organic constituents present in deeper samples included 7 VOCs, 7 SVOCs, and two PCBs (see Tables 3, 5, and 7). These constituents may be related to the disposal of waste materials in the off-site study area and are not considered related to former MGP operations.

Metal constituents were detected in the two samples on which they were analyzed: sample SED-08 (5-ft depth) and SED-03B (5-ft depth) (see Table 8). The metals detected in these samples are not considered related to former MGP operations and are likely associated with local fill and local operations and land usage in the area (e.g., former landfill, DPW operations, former railroad, road drainage, etc.), although some of the metals may be naturally occurring. Cyanide was not detected in the swale samples for which it was analyzed (see Table 9).

In general, the peat layer appears to be a barrier to migration of constituents in the deeper soils/sediments. Concentrations of constituents, particularly total PAHs and total BTEX, are considerably lower within and beneath the peat layer.

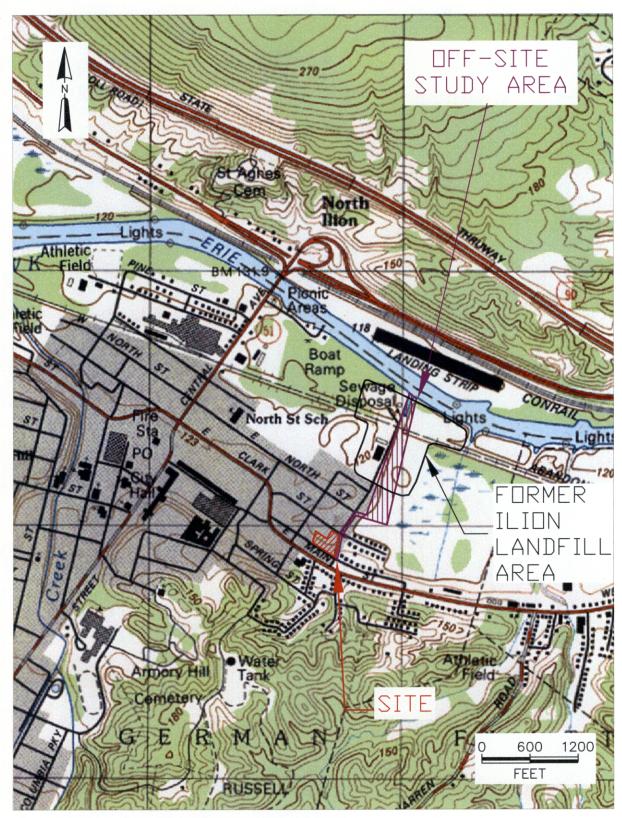
6.0 CONCLUSIONS

This section summarizes the conclusions of the investigations performed at the open swale, located within the off-site study area of the Ilion (East Street) Site.

- In the first two segments of the open swale, located south of Route 5S, the total PAH concentrations in the shallow sediments (0- to 2-foot depth) range from 8.6 to 208 mg/kg. At a depth interval of about 3 to 4 feet in soil and sediment below and adjacent to the swale, the PAH concentrations are similar in magnitude to those in the shallower sediments, but with a broader range (2.39 to 819 mg/kg). Below the 4 foot depth interval, the total PAH concentrations generally decrease (range: not detected to 123 mg/kg).
- In the downstream segments of the open swale, located north of Route 5S, the range of PAH concentrations in the sediments and soils beneath and/or adjacent to the swale are one to two orders of magnitude less than those in equivalent depth intervals south of Route 5S.
- BTEX compounds were not detected, or are present at low concentrations in the samples from sediments and soils beneath and adjacent to the open swale. Total

BTEX concentrations south of Route 5S (range: not detected to 6.5 mg/kg) are greater than those to the north (range: not detected to 0.34 mg/kg).

- The peat layer appears to be a restriction for the migration of contaminants.
- The metals detected in the swale area are not considered to be related to former MGP operations and may be related to the former or current local operations and conditions.
- Cyanide was not detected in soil samples collected from the open swale.
- Fingerprint analysis and sample descriptions (e.g., odors) indicate the PAH and BTEX in the sediments and soil beneath and adjacent to the swale are associated with degraded fuel oil and are not associated with historic MGP operations.
- The usage of land in the off-site study area (former railroad bed, storm sewer, landfills, etc.) by its nature, has the potential to contribute contaminants, particularly PAHs, into the environment. In addition, flooding of the Mohawk River can deposit contaminants from up-stream sources within the open swale.
- Impacts identified in the swale are not related to former MGP operations, but are likely related to former and current local operations and conditions. This is supported by the following:
 - The open swale receives stormwater flow from: roads and commercial, industrial and residential properties in a large area south of the swale via flow to storm sewer catch basins; the area of the Ilion DPW garages; and the DPW debris disposal area. These areas contribute, or potentially contribute, petroleum-related substances to the swale.
 - A pipe draining a ditch along the north side of Route 5S discharges to the swale.
 - Several pipes of unknown origin have been identified that discharge to the swale.
 - The swale lies within the area of the former Ilion Landfill, and is positioned adjacent to the DPW garages and debris disposal area. The banks of swale contain fill related to these current and former operations.
 - A railroad formerly operated along the current position of what is now Route 5S. Railroad operations may have contributed petroleum-related constituents as well as other impacts (e.g., creosote from railroad ties) to the study area.



Source: Ilion, N.Y. USGS Topographic Quadrangle, 7.5—minute series, dated 1982.

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TETRA TECH EC, INC.

TITLE:
SITE LOCATION MAP
Swale Investigations Summary
Ilion (East Street) Site

DWN:	DES.:	PROJECT NO.:
LEA	LEA	2907.0003.0003
CHKD:	APPD:	
DPC	RC	FIGURE NO.:
DATE:	REV.:	2-1
01/12/06	0	2-1

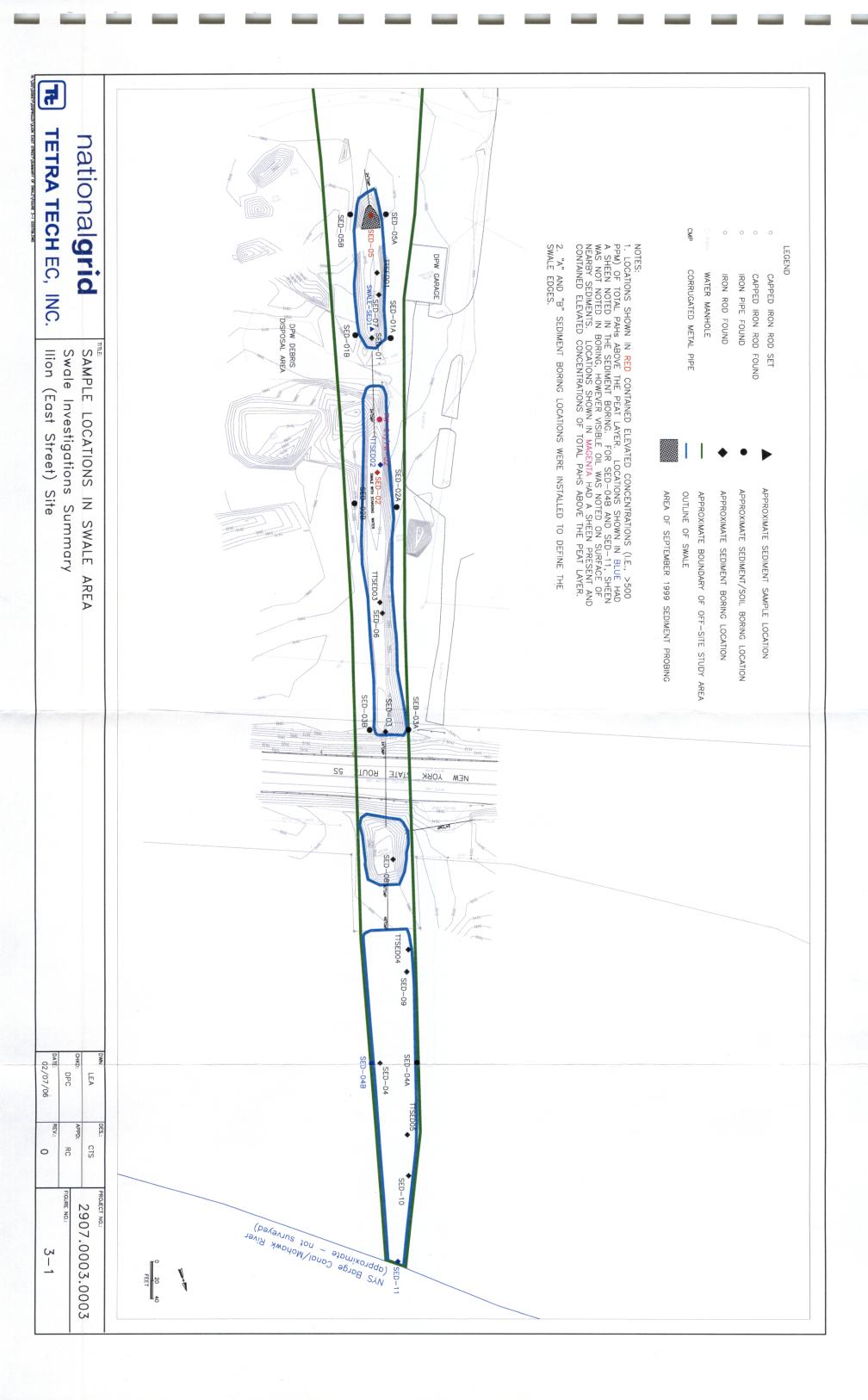


Table 1 Summary of Visual and Olfactory Descriptions for Sediment Borings in Off-Site Swale Ilion (East Street) Site

	Visual	Olfactory
Boring ID	(ft below surface)	(feet below surface)
FW-01	4 - 5': some discoloration, visible oil sheen	No odor noted
	4 - 8': visible oil sheen	
FW-02	8 -12': sheen	8 - 12': odor, asphalt-like
	12 - 16': sheen	12 -16': odor, asphalt-like
		0 - 4': organic and petroleum odors
SED-01	No sheen noted	4 - 8': organic and petroleum odors
		8 - 12': organic and petroleum odor
^= <u> </u>	0 - 4': some ash. No sheen noted	
SED-1A	10 - 12': some ash. No sheen noted	No odor noted
SED-1B	No sheen noted	No odor noted
		0 - 4': organic and petroleum odors
SED-02	No sheen noted	4 - 8': organic and petroleum odors
		8 - 12': organic and petroleum odo
SED-02A	No sheen noted	No odor noted
	No sheen noted	No odor noted
	No sheen noted	No odor noted
	4 - 8': ash. No sheen noted	No odor noted
		8' - slight odor (n.o.s)
SED-03B	No sheen noted	10' - slight odor (n.o.s.)
		0 - 4': Petroleum odor
SED-04	No sheen noted	4 - 8': Organic and petroleum odors
		8 - 12': organic and petroleum odor
SED-04A	No sheen noted	No odor noted
	No sheen noted in boring	
SED-04B	oil visible in shallow sediments along swale	4 - 8': slight odor, petroleum
SED-05	No sheen noted	0 - 4': petroleum odor
	No sheen noted	0 - 4': slight odor (n.o.s.)
	No sheen noted	No odor noted
SED-06	No sheen noted	No odor noted
SED-07	No sheen noted	No odor noted
SED-08	No sheen noted	No odor noted
SED-09	No sheen noted	4 - 8': slight odor (n.o.s.)
	No sheen noted	4 - 8': slight odor (n.o.s.)
	No sheen noted in boring	
SED-11	oil visible in shallow sediments along swale	4 - 8': slight odor (n.o.s.)
TtSED-01	No sheen noted	No odor noted
	0 - 2': slight sheen	0 - 2': slight acrid petroleum odor
	No sheen noted	0 - 2': acrid petroleum odor
	No sheen noted	No odor noted
	0 - 2'; trace ash material. No sheen noted	No odor noted

Notes:

n.o.s. - not otherwise specified

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Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

T. W.							
SED-01A SED-01A	02/19/2001	20.00	2000	1.6U	783	7.8U	7.80
SED-01A SED-01A	02/19/2001 12.00	12.00	12.00	2.0U	7.90	1.9J	7
10-08 10-08	01/04/2001 10.00	00.00	8	[500]	7.	20.7	
	01/04/2001 4.00					4	
		4.00	87	4.8		6.8	2
0.00	0/i022001	8.00	800	5.2	9.9	1.6J	368
	NY-SCOL			09	2500	1500	1200
SITE	DATE DEPTH (0)	(feet)	8	(ng/kg)	25)	(ug/kg)	(ug/kg)
	CONSTITUENT	Starting Depth	Ending Depth	Benzene		Toluene	Xylene (fotal)

Page: 2 of 8 Date: 01/11/2006

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Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

SED-02A SED-02A-12 02/20/2001 12:00		0	_			
SED 2022	12.00	8	2.0U	8.2U	2.8	
Ŷĸ						
SED-02 SED-02 SED-02B-12 01/04/2001 12:00	8.00	200	150]	2	3.8J	2
					.,	The second secon
SED-02 SED-02-4 01/04/2001 4.00				11111		
SED SED 01/04	4.00	8	6.8	1.0 3	6.3	.
SED-018 SED-018 02/19/2001 16.00	16.00	16.00	0.8	5.00	1.6.1	3
						The state of the s
SED-018 SED-018-8 02/19/2001	8.00	988	.4U	2	.80	
<u> </u>	89	ď	÷	S	7	
NY-SCOL			09	2200	1500	
SITE SAMPLE ID DATE DEPTH (%):	(feet)	(Lean	(ug/kg)	(ayan)	(ng/kg)	3
	(fe		3		크	
	F					
CONSTITUENT	Starting Depth		Benzene	Thyber and	ene	(ao))
	Stan	ā	Ben;	Ē	Toluene	

Page: 3 of 8 Date: 01/11/2006

Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

STATE SEPTIONAL SE	SAMPLE D								
Company Comp	Cart Cart		SITE		A SO CO	SEDOZB	SED-028	SED.08	SED-03A
(feet) 20.000 8.000 20.000 4.000 (feet) 6.00 20.000 4.000 (ug/kg) 6.0 0.834 1.22 1.21 4.6 (ug/kg) 1500 2.04 2.33 5.9U 1.4J (ug/kg) 7200 0.720 0.720 1.1U 5.5U 1.45	(feet) 20.00 8.00 20.00 4.00 (ge/kg) 60 20.00 8.00 4.00 (ug/kg) 60 0.83 1.23 1.20 4.6 (ug/kg) 1500 2.01 2.33 5.9U 1.4J (ug/kg) 1200 2.07 2.33 5.9U 1.4J		DEPTHAN	1038 1038 144	02/20/2001	02202001	02/20/2001 20:00	01/04/2001	02/20/2001
(up/vg) 60 0.30 1.20 4.6 (up/vg) 60 0.30 1.20 4.6 (up/vg) 1500 2.0J 2.3J 5.9U 1.4 (up/vg) 1500 0.71 11U 5.9U 1.43	(ug/kg) 60 0.53 1.21 1.20 4.6 (ug/kg) (ug/kg) 1500 2.0.1 2.3.3 5.9U 1.4J (ug/kg) 1500 2.0.1 2.3.3 5.9U 1.4J 1.4J	epth	(feet)		20.00	8.00	20.00	4.00	16.00
(ug/vg) 60 0.5.0 1.2.0 4.6 (ug/vg) 1500 2.0 2.3.3 5.9.0 1.4.1 (ug/vg) 1500 0.7.0 1.1.0 5.9.0 1.4.1	(ug/kg) 60 0.53 1.23 4.6 (ug/kg) 1500 2.03 2.33 5.9U 1.4J (ug/kg) 1500 0.07 1.1U 5.9U 1.4J		(64)		9702		2000		
(ug/kg) 1500 2.0J 2.3J 5.9U 1.4J	(ug/kg) 1500 2.0J 2.3J 5.9U 1.4J (ug/kg) (ug/kg) 1500 0.7J 11U 5.9U 1.4J	AND THE RESIDENCE AND THE TREE TREE TO THE RESIDENCE AND THE TREE TREE TREE TREE TREE TREE TREE	(ug/kg)	. 09	0.9J	1.2J	1.2 U	4.6	7.4U
(ug/kg) 1500 2.0J 2.3J 5.9U 1.4J	(ug/kg) 1500 2.0J 5.9U 1.4J	900	900	2200		Joc			
1100 C. 113	1.0 C. S.		(ug/kg)	1500	2.0J	2.3J	5.9U	1.4	7.2U
			(6)V61)	1200	2	4.			720 75

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Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

o e							
SED-04A SED-04A-3 02/22/2001 3.00	0	6	_		_	- 1 · 1	
8888	3.0	3.00	4.	2.5	0.7	2	
198							
SED-04 SED-048-7 01/04/2001 7.00	7.00	90 X	1.8U	3	9.00	1 006	
SED-04 SED-04-4 01/04/2001 4:00					⊇	a	
8893	4.0	4.80	13	788	99	340.	
SED-038 SED-038-10 02/22/2001	_						
4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	10.00	10.00	47	9	2.3	8	
SED-03A SED-03A-29 OZ/20/2001							
SED-03A SED-03A 02/20/20	20.00	20.00	1.00	465	5.00	200	
				- 2210	_		
008-X			9	2500	1500	1200	
INTE WWDEID NATE SEPTH (®)	400 Men. 1300 948 978		_		_		
SAMPLE D DATE DEPTH (1)	(feet)		(ug/kg)	(6 % 0)	(ug/kg)	Sylvania Sylvania	
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ONITIOEN	Starting Deoth	Ending Depth	Benzene	ylbenzene	Toluene	Xylene (total	
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Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

	- mc-abra	,			
SED-05 SED-05-12 02/19/2001 12:00					
SED-00 SED-00 02/19/2 12:00	12.00 12.00	0.7J	1.3		
SED-05 SED-05-4 02/19/2001 4:00	4.00 4.00	[670]	130)	5	
SED-04B SED-04B-10 02/22/2001 10:00	10.00	1.4U 57.6	7.10		
SED-04B SED-04B-7 02/22/2001	7.00	1.10	5.6U		
SED-04A SED-04A-7 02/22/2001 7.00	7.00	1.0U	5.10		
SAMPLE ID DATE DEPTH (R) NY-SCOL 3		09	11:07		
SITE SAWPLE ID DATE DEPTH (R)	(1ee)	(ug/kg)	(ug/kg)	(6V6)	
CONSTITUTENT					
CONSTITUENT	Starting Depth		Toluene		

Page: 6 of 8 Date: 01/11/2006

Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

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PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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1	CONSTITUENT	Starting Depth	Ending Depth	Benzene	Ethylbenzene	Toluene	
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Page: 7 of 8 Date: 01/11/2006

Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

Z

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-09 SED-09-3 02/22/2001 3.00	3.00	300	0.9	76.0	2.4J	4					
SED-08 SED-08-10 (2/22/2001	10.00	10.00	2.2U	278	110						
	•										
SED-07. SED-07.12 02/20/2001	2.00	12.00	.6.	88	8.3U	8.3					
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SED-07-4 SED-07-4 02/20/2001	4.00	4.00	.4.I	3	3.9.1	20					
SED-08-12 SED-08-12 02/20/2001	12.00	12.00	1.00		0.9J	200					
N. SCOL				25.00	200	1200					
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SAMPLE D DATE DEPTH (1)	feet)		ug/kg)	(Maka)	(ua/ka)	(60/60)					
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OMSTITUENT	Starting Depth		Benzene	Ethylbenzene	Toluene	XVIene (rotal)					
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Table 2
BTEX Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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CONSTITUENT	Starting Depth		Benzene	Ethytbenzene	Toluene	Xylene (total)
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Table 3
VOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

SED-09 SED-09 SED-09 10 02/22/2001 8 10.00 10.00	3.00			No Test		95				787		2415.8U	0.9J No Test	
S SED-048 9.7 SED-048-10 01 02/22/2001 10.00			No Test	84	No Test	No Test	1.40		No Test	9.30	No Test	19.2	No Test	
SED-03B SED-04B SED-04B SED-03B-7 SED-03B-7 02/22/2001 02/22/2001 7.00	100	8.	A CONTRACTOR OF THE PROPERTY O	1.084	5.6U	57	1.10	260	4.4	4.50	5.1B	79.9	1.10	
		60.04	1000L		18	120	47	8	6.3	98	4.2B	22	1.2U	
SITE SAMPLE ID DATE DEPTH (1) NY-SCOL			'kg) 7900	(0)				(6)		(6)				
# % & 9	(feet)		(ug/kg)		(ng/kg)		(ng/kg)		(ng/kg)		(ng/kg)		(ug/kg)	
CONSTITUENT	Starting Denth	Ending Depti	1,2-Dichlorobenzene	//	2-Butanone		Benzene		Carbon disulfide	Effylberzene	Methylene chloride		Trichloroethene	

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Table 3
VOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

SED-11-8 SED-11-8 02/22/2001 8.00	8.00	5.4U	20 20 4.3U	1.10 1.10
SED-11.3 SED-11.3 02/22/2001 3.00	3.00	No Test	3:0 3:10 No Test 6:6	No Test
SED-10 SED-10-10 02/22/2001 10:00	10.00	5.2U	5.20 10 4.20	5.58 624 1.00
SED-10 SED-104 02/22/2001	4.00	No Test No Test	No Test	No Test
NY-SCOL		300	2700	700 TOO
STE SAMPLE ID DATE DEPTH (11)	(feet)	(na/kg) (na/kg) (na/kg)	(ug/kg) (ug/kg)	(ug/kg) (ug/kg)
CONSTITUTENT	Starting Depth Ending Depth	1,2-Dichlorobenzene 1,4-Dichlorobenzene 2-Butanone Arekone	Benzene Total xyens Carbon disulfide Ethythenzene	Methylene chloride Tollonoethene Trichloroethene

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

			7.47	SEDDIL	SEDJA	SEDIOTALIZA	SELUTA
*ONSTITUTENT AND	DATE		01/02/2001	01/04/2001	01/04/2001	100261120	02/19/2001
	DEPTION	NY-SCOL	8.00	4.00	10.00	12.00	20.00
Starting Depth	(feet)		8.00	4.00	10.00	12.00	20.00
Ending Dapth			8,00	00,7	10.00	12.00	20,00
Acenaphthene	(ug/kg)	50000	4300J	3900J	250J	620U	530U
				2600	70071	7029	162
Anthracene	(ng/kg)	50000	34000	8100	4400U	620U	47.J
Senzo(a)anthracene	(Ma/ko)		[0016]	[16000]	FAND	(620	36
Benzo(a)pyrene	(ug/kg)	61	[89000]	[14000]	[440]U	[62]U	44.
Benzo(b) florentene		220	[10000]	[18000]	non-1	20	
Benzo(ghi)perylene	(ug/kg)	2000	35000	3600J	4400U	620U	530U
			IA200	[5220]		129	
Chrysene	(ng/kg)	400	[83000]	[15000]	[4400]U	[620]U	62J
Diberzolainanthacena			[DOOD]	1200	T(XX)	162U	nieg
Fluoranthene	(ng/kg)	50000	[220000]	38000	4400U	14J	110J
		90009	POOSS	00001		7029	
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	[42000]	[4500]	440U	62U	SOUTH THE PROPERTY OF THE PROP
			, pos	730	1001	1029	
Phenanthrene	(ng/kg)	20000	[89000]	34000	4400U	620U	63J
		2000		28000	8	181	188
	AND THE REPORT OF THE PROPERTY					en politica de la companya del companya de la companya del companya de la company	

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

8-12 SED-02A 001 02/20/2001		12.00	720U		720U	70	UZZ]U	22	720U		[720]U	752	720U	102	72U		720U	
SED-02 4 SED-02B-12 01/04/2001 12:00	ä	9	746		5307	[2200]		[580]				250				308		0096
S SED-02 9-16 SED-02-4 01 01/04/2001 4.00	4.00	1887	2200J	360	22000	B1000]	[84000]	[92000]	35000	[42000]	[70000]	[00001]	[150000]	F0029	[42000]	T0008	[20000]	1120000
8 SED-018 8-3 SED-018-16 301 (2419/2001	16.00	16.00	2000	3	200N	900	50U	500	200n	703	(500JU	nios)	200D	- 100G	50U	2000	200U	2005
SED-018-8 02/19/2001	8.00	88	470U		470N	Ę	47U		470U		[470]U	LEAL LAND	207	4700	47U	747	11)	3
O 0	THE PROPERTY OF THE PROPERTY O		50000	2003	20000	224	61	220	20000	220	400	14.3	20000	20000	3200	13000	20000	2000
SAMPLED SAMPLED DATE DEPTH (**)	(feet)	(88)	(ug/kg)	5	(ng/kg)	(8/68)	(ng/kg)	(60/c0)	(ng/kg)	9	(ug/kg)	99	(ug/kg)	(6)(6N)	(ng/kg)	(Dyan)	(ng/kg)	(9,63)
	XX 2500 X (0.11 x 2500 X 10.11		Goddatte (Control of the Control of												ne			
CONSTITUENT	Starting Depth	Ending Depth	Acenaphthene	Acenaphity/ene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Oberzo(a,h)anthrace	Fluoranthene	Fluorene	Indena(1,2,3-cd)pyrene	Septiment of the septim	Phenanthrene	

Page: 3 of 8 Date: 01/11/2006

Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-03A SED-03A-16 02/20/2001 18:00	16.00 1 6.00	480U	15J		37.1	3	480U	201	391	ngy -	88	4800	480	4800	307	34
SED-03 SED-03-4 01/04/2001 4:00	4.00	3100 850. J	4500	[7200]	[0009]	7200	1600	B200	[0069]	1840	17000	2200	2100	7016	14000	1,500
SED-028 SED-028-20 02720/2001 20.00	20.00	490U	490U	767	49N	167	490N	76*	[490]U	[49]U	490U	4901	490	1005	490U	100
SED-028 SED-028-8 02/20/2001	8.00	740U	740U	740	[74]U	7	740U		[740]U		31.)	7,07	74U	38.	740U	786
SED-02A.20 02/20/2001 2000	20.00	400U	400U	9	40N	4	400N	4	[400]U	100	400U	7004	40U	3	400U	Pop.
700S-XN		00	00		V company of the state of the s		00				00	00	0	8	00	
		50000	20000	42	61	220	20000	220	400	143	20000	20000	3200	1380	20000	000
SAMPLEID DATE DEPTH (M)	(feet)	(ng/kg)	(ug/kg)	X 0	(ng/kg)	(Bylon)	(ug/kg)	(BAS)	(ug/kg)	(no/ko)	(ng/kg)	(pyca)	(ug/kg)	G (3)	(ug/kg)	
	oth.	ne de la company		Ihracene	rene	oranthene	erylene	Manthene		lanthracene	o		3-cd)pyrene		Je	
SOOS	Starting Depth Ending Depth	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthem	Benzo(ghi)perylene	Benzo(K)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene		Indeno(1,2,3-cd)pyrene	Napital Indian	Phenanthrene	

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

SAMPLE ID SEP-DSIA-NO SEP-DSIA-NO
20.00 10.00 4.00 7.00 20.00 10.00 4.00 7.00 400U 380J 1100J 630U 400U 10.00 780J 630U 50 11J 480J 780J 630U 26J 16SQ 1100J 63U 63U 26J 18Q 1100J 63U 63U 26J 18Q 1700J 63U 63U 27J 1840J 1200DJ 63U 63U 60J 1900 4700 15J 63U 400U 1900 4700 63U 63U 14J 34O 57O 63U 15J 19J 1700 560O 25J
2CLOR 10.00 4.00 7.00 400U 380J 1100J 630U 111 480J 780J 630U 111 480J 780J 630U 26J [680] [1100] [63]U 26J [680] [1100] [63]U 12J 340J 500J 63U 12J 340J [630]U 63U 60J 1900 4700 15J 60J 1900 4700 63U 14J 340 570 63U 14J 340 560 55U 19J 1700 5600 25J 19J 1700 5600 25J
400U 380J 1100J 630U 400U 100J 4500L 630U 11J 480J 780J 630U 26J [89Q] [110Q] 63U 26J [80] [110Q] 63U 26J [80] [110Q] 63U 12J 340J 500J 63U 27J [840]J [630]J 63U 60J 1900 4700 15J 400U 130U 570 63U 14J 340 570 63U 19J 1700 5600 25J 550J 560D 25J
400 L 100 L 450 U 630 L 11.J 480 J 780 J 630 U 26.J [680] [1100] 630 U 26.J [680] [1100] [63] U 12.J 340.J 500.J 630 U 12.J 340.J 500.J 630 U 27.J [840] J [2000] J [63] U 60.J 1900 4700 15J 60.J 1900 4700 15J 14.J 340 570 63U 19.J 1700 570 63U 19.J 1700 5600 25J 19.J 1700 5600 25J
00 11 J 480 J 780 J 630 J 26 J [680] [1500] 630 J 26 J [840] [1700] 631 J 50 J 340 J 500 J 630 J 60 J 12 J 340 J 1500 J 631 J 60 G 60 J 1900 J 4700 J 631 J 60 J 14 J 340 J 570 G 63 J 60 J 14 J 340 J 570 G 63 J 60 J 19 J 1700 S 560 D 25 J 60 J 52 J 1600 G 560 D 25 J
26.J [680] [1100] 63U 26.J [680] [1100] 63U 00 12.J 340J 500J 630U 00 12.J 340J [630] 63U 00 60J 1900 4700 15J 00 400U 130J 130J 63U 00 14J 340 570 63U 00 400U 130J 130J 63U 00 400U 130J 130J 63U 00 560O 550O 550 550J 550J 63U 00 560J 550J 00 560J 550J
26.1 [680] [1100] [63]U 30.1 [840] 500.3 630.0 12.1 340.3 500.3 630.0 27.1 [840] [2000] 630.0 60.1 1900 4700 15.0 60.1 370.1 4600 63.0 14.1 340 570 63.0 19.1 1700 5600 25.1 19.1 1700 5600 25.1 52.1 1600 3700 6300
36.9 [840] [1709] 630 12.1 340.1 500.1 630.0 27.1 [840].3 [2000].3 631.0 66.1 1900 4700 15.1 66.1 370.1 1800.1 15.1 14.1 340 570 63.0 19.1 1700 5600 25.1 19.1 1600 5600 25.1 57.1 1600 5600 25.1
12J 340J 500J 630U 27J [840]J [2000]J 63U 60J 1900 4700 15J 400U 370J 1800J 63U 400U 370J 63U 63U 14J 34O 57O 63U 19J 1700 560 25J 52J 1600 33760 630U
153 [840]J [630] 63U 273 [840]J [2000]J [63]U 60J 1900 4700 15J 60J 370J 150 63U 14J 34O 57O 63U 190 450U 63U 190 560 25J 52I 1600 25J
27.3 [840]J [2000]J [630]U (400L [77]J [450]L [63]U 60.J 1900 4700 15J 14.J 340 570 63U 400L 130J 450QL 63U 19J 1700 5600 25J 52L 1860 37700J 630U
(40)U [T77J [63]U 60J 1900 4700 15J 400U 370J 180g3 630U 14J 340 570 63U 19J 1700 5600 25J 52I 1600 25J 630U
60.J 1900 4700 15.J 400U 370J 1800J 630U 14.J 340 570 63U 19.J 1700 5600 25J 52.J 1800 3700J 630U
400U 370U 630U 14J 340 570 63U 400U 130U 630U 19J 1700 5600 25J 52J 3700J 630U
14J 340 570 63U 400U 130J 450U 630U 19J 1700 5600 25J 15ZI 1600 3700J 630U
400U 130J 1700 5600 25J 3700J 630U
19J 1700 5600 25J
3700J

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

	Ë		SED-04A	SED-048	SED-04B	SED-06	SED-08
	SAMPLEID		7- 45 000	SED-MB-7	SED-048-10	ZED-SZ	SED-05-12
	DEPTHAN	NY-SCOL	7.00	7.86	10.00	4.00 mm	02/19/2001 12.00
Starting Depth	(feet)		7.00	7.00	10.00	4.00	12.00
Diding Delot	reg.		7,00	7.00	10.00		12.00
Acenaphthene	(ug/kg)	20000	450U	480U	490U	11000J	430U
, sell in the sell of the sell	(oyen)	20009	707	7007		.005	
Anthracene	(ug/kg)	2000	450U	480U	490U	26000J	430U
Serzo(a) anthrecense	(Ng/kg)	224	\$	38	490	logosi	-23U
Benzo(a)pyrene	(ug/kg)	61	45U	48U	49U	[00009]	43U
Perzo(b)fluotatribane	(dayan)	220 Friedward Britanier Committee	45	761	49U	[80008]	43U
Benzo(ghi)perylene	(ug/kg)	50000	450U	480U	490U	27000J	430U
Benzo(()Buoranthene	(noka)	Ŷ.	680	3	787	[30000]	n a
Chysene	(ug/kg)	400	[450]U	[480]U	[490]U	[64000]	[430]U
Diserzo a hantiracene	(by/bn)	* 3	28	748IJ	VIEW.	[0056]	[43]U
Fluoranthene	(ug/kg)	20000	450U	28J	490U	[140000]	430U
Piuowia i	(byte)	20000	7007	480U	490년	12000	430U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	45U	48U	490	[31000]	43N
Nauthen	(Nekg)	26.	703	4801	7007	3.00.	107
Phenanthrene	(ug/kg)	20000	450U	24J	490U	[72000]	430U
	100 miles (100 miles miles (100 m	20002	18	***************************************		[Extend]	2.1
THE PRINCIPLE OF THE PR							

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

	SITE		SED-05A		SEDOGB	SED-058	90-6-8
	SAMPLEID		SEDOSA6		SED-058-8	SED-05B-20	7,000
CONSTITUENT	DATE	Co	02/19/2001 A.M	02/19/2001	02/19/2001 8.00	02/19/2001	02/20/2001
			800		00 8	00.00	4.00
Starting Deptin	(leet)		00.0	**************************************	0.00	20.00	3
Ending Depth	3		909	20.00	8.00	20.00	
Acenaphthene	(ug/kg)	50000			510J	15J	700U
Acenaphthylene	(Lig/Kg)	2000	ng:p	450U	3800	72	
Anthracene	(ug/kg)	20000	590U	450U	5100	110)	45J
Benzo(a)anthiacene	(6/60)	24	2	450	F800]	180	[240]
Benzo(a)pyrene	(ug/kg)	61	59U			[200]	[280]
Benzo(b)flucenthene	(OA/On)	220		æ	[15000]	[280]	(860)
Benzo(ghi)perylene	(ug/kg)	50000	590U		4000	947	707
Benzoik)fluoranthene		220			[001-2]	8	.
Chrysene	(ug/kg)	400	U590JU		[10000]	210J	260J
Dbowzq(ah)srrhracene	(VQKg)		SOUTH THE STATE OF	ngy)	10011	nles)	70/2
Fluoranthene	(ug/kg)	20000	290U			420J	3907
Fluorence	(iowo)	20005	Pos			7.	
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	29U			100	98
Naphthalane	99		10.3 5	3	7086	72	
Phenanthrene	(ng/kg)	50000	590U	450U	12000	2403	891
Pyrene			2001	450 L	1000	1080	3500
en in der en de la familie (familie) was de manden de la familie (manden de manden de manden de manden de mande				STEERING TO CONTRACT THE STEERING STATES OF THE STATES OF		TLOSTO, COSTOS DIZZONI BISZONI BISKO, den gelekekeistellen erraken med	

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

Constructor Safety En SED-OF 2 SED-OF 3				8648			200 CEC	SED-09
Disptit Disptit NY - SCOL 12,00 12,00 10,00 Disptit (ret) (ret) 12,00 12,00 10,00 Disptit (ret) (ret) (12,00 12,00 10,00 Disptit (ret) (ret) (12,00 12,00 12,00 10,00 Other (ret) (ret	CONSTITUENT	SAMPLED		SED-06-12 02/20/2001	SED-07-4 02/20/2001	SED-07-12 02/20/2001	SED-08-10 02/22/2001	SED-08-3 02/22/2001
Depth (feet) 12,00 4,00 12,00 10,00 Depth (feet) 12,00 4,00 12,00 10,00 Depth (feet) 5000 390U 850U 850U 840U Intrinse (ig/kg) 5000 390U 850U 640U shyrene (ig/kg) 5000 39U 724 84U 84U shyrene (ig/kg) 61 39U (85I) 68U 84U shyrene (ig/kg) 5000 39U 85I 84U 84U chukashtracene (ig/kg) 600 39U 85I 85I 84U chukashtracene (ig/kg) 6000 39U 85I 86U 84U chukashtracene (ig/kg) 6000 39U 85U 85U 84U chukashtracene (ig/kg) 6000 39U 85U 85U 84U chukashtracene (ig/kg) 6000 39U 85U 85		рерти (п)	NY-SCOL	1200		12.00	10,00	3,00
Depth (feet) 12.00 10.00 Arithene (ug/kg) 50000 390V 650V 680V 840V Attribute (ug/kg) 50000 390V 650V 680V 840V sene (ug/kg) 50000 390V 650V 680V 840V sharithmene (ug/kg) 61 39V 85V 68V 840V shybroranthene (ug/kg) 620 39V 85V 68V 840V phlucranthene (ug/kg) 5000 39V 85V 68V 84V proportion (ug/kg) 400 39V 85V 68V 84V proportion (ug/kg) 6000 39V 85V 68V 84V proportion (ug/kg) 6000 39V 85V 68V 84V proportion (ug/kg) 6000 39V 85V 68V 84V proportion (ug/kg) 13000 39V 85V 8	Starting Depth	(feet)		12.00		12.00	10.00	3.00
kithlene (ugkg) 50000 390U 650U 680U 840U kithylene (ugkg) 50000 390U 650U 680U 840U sene (ugkg) 50000 390U 650U 680U 840U sharimzeane (ugkg) 61 39U 73 19J 64U plinoranthene (ugkg) 5000 39U 65U 68U 84U plinoranthene (ugkg) 5000 39U 65U 64U 84U prilipenylene (ugkg) 420 65U 65U 64U 84U ne (ugkg) 420 65U 65U 64U 84U ne (ugkg) 6000 39U 42 50 84U ne (ugkg) 6000 39U 65U 64U 84U ne (ugkg) 6000 39U 85U 84U 84U ne (ugkg) 6000 39U 85U	Erding Death	(664)		428		8.	10.00	3.00
chrityleine (iig/kg) 50000 390U 650U 680U 840U sine (iig/kg) 50000 390U 850U 680U 840U shartmacene (iig/kg) 61 390U (65]U [68]U 84U pl/Locanthere (iig/kg) 50000 390U 850U 680U 84U pl/Locanthere (iig/kg) 50000 390U 850U 680U 84U charmed (iig/kg) 400 390U 850U 680U 84U charmed (iig/kg) 60000 390U 42J 50J 84U charmed (iig/kg) 60000 390U 85U 85U 84U denne (iig/kg) 73000 390U 85U 85U 84U denne (iig/kg) 50000 390U 85U 85U 85U denne (iig/kg) 50000 390U 85U 85U 15J denne (iig/kg)	Acenaphthene	(ug/kg)	20000	3900		680U	840U	210J
sene (ug/kg) 50000 390U 650U 660U 640U a)antirracine (ug/kg) 224 39U 26J 64U 64U a)plinorantiere (ug/kg) 570 39U 65I 64U 64U plinorantiere (ug/kg) 220 38U 65U 68U 64U chillocantiere (ug/kg) 620 38U 65U 68U 64U chillocantiere (ug/kg) 620 38U 65U 68U 64U chillocantiere (ug/kg) 620 38U 65U 65U 64U chillocantiere (ug/kg) 6000 38U 42J 68U 64U chillocantiere (ug/kg) 5000 38U 68U 68U 64U debrie (ug/kg) 5000 39U 65U 68U 64U debrie (ug/kg) 5000 39U 65U 68U 68U debrie (ug/kg)	Acenaphitykene		20000	3800		38	B B	88
shartmreane (ug/kg) £1 39U £5L 193 64U shyrmene (ug/kg) £1 39U (ESIU [ESIU [ESIU 64U phycoratrione (ug/kg) 220 38U 65U 68U 84U pril)perylene (ug/kg) 220 39U 65U 68U 84U ne (ug/kg) 400 390U 42.1 50J 84UU deh (ug/kg) 50000 39U 42.1 50J 84UU e (ug/kg) 50000 39U 85U 68U 84UU e (ug/kg) 50000 39U 85U 68U 84UU dene (ug/kg) 50000 39U 85U 68U 84UU dene (ug/kg) 50000 39U 85U 68U 84U dene (ug/kg) 50000 39U 85U 68U 84U dene (ug/kg) 50000 39U <td>Anthracene</td> <td>(ug/kg)</td> <td>20000</td> <td>390U</td> <td></td> <td>0089</td> <td>840U</td> <td>250J</td>	Anthracene	(ug/kg)	20000	390U		0089	840U	250J
olythrene (iig/kg) 61 390 (85)U [68]U [84]U plithoranthere (iig/kg) 50000 390 850U 680U 840U plithoranthere (iig/kg) 50000 390U 650U 680U 840U prof. hyanthracane (iig/kg) 4163 390U 423 681 840U intene (iig/kg) 50000 390U 423 68U 840U intene (iig/kg) 50000 390U 850U 68U 840U intene (iig/kg) 73000 390U 850U 68U 840U intene (iig/kg) 50000 390U 850U 68U 84U intene (iig/kg) 50000 390U 850U 68U 84U intene (iig/kg) 50000 390U 850U 82U 84U intene (iig/kg) 50000 390U 85U 11	Benzo(a)antimacene	(6,00)	224	301		192	88 0	[680]
plittocantificine (ug/kg) 220 390 323 28J 64U ghi)perylene (ug/kg) 50000 390U 650U 660U 840U cyticorantificine (ug/kg) 220 38U 65U 68U 84U ne (ug/kg) 400 390U 42J 50J 840U ithene (ug/kg) 50000 39U 85U 84U e (ug/kg) 50000 39U 85U 84U it.2.3-cd)pyrene (ug/kg) 7300 85U 85U 84U dene (ug/kg) 75000 39U 85U 85U 84U ithrene (ug/kg) 75000 39U 85U 85U 84U ithrene (ug/kg) 50000 39U 85U 85U 84U ithrene (ug/kg) 50000 39U 85U 85U 84U ithrene (ug/kg) 50000 39U 85U 85U	Benzo(a)pyrene	(ng/kg)	61	390		n[89]	[84]U	[009]
ghil)penylene (ug/kg) 50000 390U 850U 680U 840U Kifluoranthene (ug/kg) 620 390U 850U 681U 840U ne (ug/kg) 400 390U 850IU 681U 840U thene (ug/kg) 50000 390U 850U 68U 840U in (ug/kg) 73000 390U 850U 68U 840U in (ug/kg) 50000 390U 850U 68U 840U intrene (ug/kg) 50000 390U 850U 18 intrene (ug/kg) 50000 390U 850U 11 intrene (ug/kg) 50000 390U 850U 11		Coko	280	Toc.		281	8.0	[849]
Chlisteranthene (ug/kg) 220 390U [850]U 22J 84U ne (ug/kg) 400 390U [85]U [840]U o(a.h.)Arritracene (ug/kg) 50000 390U 42J 50J 840U ithene (ug/kg) 50000 39U 85U 68U 84U (1.2,3-cd)pyrene (ug/kg) 50000 39U 85U 68U 84U Inhene (ug/kg) 50000 39U 85U 68U 84U Inhene (ug/kg) 50000 39U 85U 68U 84U Inhene (ug/kg) 50000 39U 85U 113 18J Inhene (ug/kg) 50000 39U 85U 113 18J	Benzo(ghi)perylene	(ug/kg)	20000	3900		089	840N	250J
net (ug/kg) 400 390U [850]U 22J [840]U odarhjarrtnacene (ug/kg) 14.3 (per per (per per	Benzotkalluene	(Vokg)	8	3		38	86	1 282
Cal.h)anthracene (ug/kg) 5000 390U 42J 50J 840U Ithene (ug/kg) 50000 39U 85U 68U 84U 11.2,3-cd)pyrene (ug/kg) 13000 39U 85U 88U 84U Interne (ug/kg) 50000 39U 85U 13 18 Interne (ug/kg) 50000 39U 85U 21J 18J Interne (ug/kg) 50000 39U 85U 21J 18J	Chrysene	(ng/kg)	400	390U		22.3	[840]∪	[1200]J
threne (ug/kg) 50000 390U 42.J 50.J 840U e (ug/kg) 50000 39U 85U 68U 84U (1.2,3-cd)pyrene (ug/kg) 13600 39U 85U 68U 84U interine (ug/kg) 5000 39U 85U 58U 84U interine (ug/kg) 5000 39U 85U 71J 18J	Dibenzo(a h)anthracere	(Byb)	2	n(eg)		(68IU	BAIU	
e (ug/kg) 50000 39U 85U 68U 84U (1.2,3-cd)pyrene (ug/kg) 173000 39U 85U 68U 84U Inhrene (ug/kg) 50000 39U 85U 21J 18J Inhrene (ug/kg) 50000 39U 85U 21J 18J	Fluoranthene	(ng/kg)	20000	3900		500	840U	19001
(1,2,3-cd)pyrene (ug/kg) 3200 39U 85U 84U alene (ug/kg) 13000 390U 850U 680U 84U nthrene (ug/kg) 50000 390U 850U 21J 18J (ug/kg) 50000 390U 350U 21J 17J	a de la companya de l	(5/60)	2000	3000		7088	Town	4000
alene 850U 680U 840U 11300U 1140U 1150U 1130U 11	Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	390	85U	P89	840	310
ithrene (ug/kg) 50000 390U 850U 21J 18J 18J 18J 17U 17U 17U 17U 17U	Naphthalene		1300	3800	850U	1089	1078	200
384. (ug/kg) 50000 177	Phenanthrene	(ug/kg)	20000	390U	8500	21J	18J	19001
	Pyrene	(ug/kg)	20000	næ.	38	23	127	1900.

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Table 4
PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

	STE		80 d8 01-90 d8	SED-104	SED-10 SED-10-10	SED-11	SED-11-SED-11-8
CONSTITUENT	DATE DEPTH (M)	NY-SCOL	10.00	02/22/2001 4.00	02/22/2001 10.00	3.00	02/22/2001 8.00
Starting Depth	(feet)		10.00	4.00	10.00	3.00	8.00
ENTING DEPORT	(geal)		10,00		10.00	38	8.8
Acenaphthene	(ug/kg)	50000	420U	120J	380U	1200J	660J
	(DAD)	20000	48 1 1 1 1 1 1 1 1 1 1	7		(099	107
Anthracene	(ug/kg)	20000	420U	110)	380U	1600J	490J
Berzz(a)sintiracons	(ug/kg)	224	7.5	[280]		[2800]	028
Benzo(a)pyrene	(ug/kg)	61	42U	[210]J	38U	[2600]	[640]
Berzo(b)fluorantierie	(WOK9)	220		1004	2	[3100]	lows:
Benzo(ghi))perylene	(ug/kg)	50000	420U	180J	380U	1600J	270J
		220	**	.091		1300	[28]
Chrysene	(ug/kg)	400	[420]∪	3001	380U	[3100]J	L[077]
Dibenzo(a,h)enthi scene	(ug/kg)	14.3	WILE SEE	L260IU	1381	707	7
Fluoranthene	(ng/kg)	20000	420U	740J	21J	7000	2000
	(ng/kg)	2000	16	200J	7088	25001	3
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	42U	140J	38U	1500	340
Naphhalare	(colkg)	3000	787	2600U		People	
Phenanthrene	(ug/kg)	50000	420U	950J	140	8700	2100
	(ng/kg)	20000	786	38		0009	1600
2.0.00.00.00.00.00.00.00.00.00.00.00.00.							

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Table 5
SVOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

			100 miles			201 101 101 101 101 101 101 101 101 101	
			SEDVSB	SED-04B	SED-048	SED-09	SED-09
	SAMPLEID		SED-03B-10	SED-048-7	SED-048-10	SEP-08-3	SED-09-10
CONSTITUENT	DATE		02222001	02/22/2001 7.00	02/22/2001	02/22/2001	02/22/2001 In m
					A	S C C	10.00
Starting Depth	(leet)		10.00	7.00	10.00	3.00	70.00
	8		10.00	84	10.00	3.00	10.00
2,4-Dimethylphenol	(ug/kg)		64J	480U	No Test	2400U	No Test
2-Wethyhaphthalene	(8)6)	26400	38	9.0	No Test	350L	NoTest
4-Chloroaniline	(ug/kg)	220	[1000]U	[480]U	No Test	[290]J	No Test
Acenaphitiene	(walke)	20000	3800	100 4	490f	2104	420U
Acenaphthylene Acenaphthylene	(ug/kg)	20000	1001	480U	490U	1907	420U
Altracene	(0,01)	9005	787	Foy.	7067	2504	420U
BENTALLER HARDEN FOR THE PRINCE OF THE STATE	(ug/kg)	224	[890]	30J	49U	[680]	42N
Berzo(z)pyrene	(na/ka)		[680]	184	49 1	legol.	
Benzo(b)fluoranthene	(ug/kg)	220	[840]	19J	0.000	[940]	42U
Benzo(g hillpory/ene	(Mg/kg)	000005		7800		250J	53€
Benzo(k)fluoranthene	(ug/kg)	220	[380]	107		[290]	42U
Bis(2-ethylhexyl)phthalate	(New York)	20000	1800	186	No Test	8100	No Test
Chrysene	(ug/kg)	400	[840]	[480]U	Par Date for the Control of Contr	[1200]J	[420]U
Dibarzo a hamuracane	(NoN)	1.3	Î.	769]			Kalu
Dibenzofuran	(ug/kg)	6200	230J	480U	No Test	2400U	No Test
Dimatrylphthalare	(0)(0)	2000	10000	# 108#	No Test	[4000]	No Test
Fluoranthene	(ug/kg)	20000	1900	28J	490U	19001	420U
Filmina	(0)/60)	00005	aye.	1008	nor.	7007	420U
netritorinitamentalmentriamenteriniment	(ug/kg)	3200	340	48U	490	310	42U

Page: 2 of 4 Date: 01/11/2006

Table 5
SVOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

SED-09-10 CZ/22/2001 10:00	420U	No lest	
	420U	ON TON	
SED-09 SED-09-3 02/22/2001 3:00	2400U	1110JU 1900J	
SED-04B SED-04B-10 02/22/2001 10.00	490U	No lest	
SED-048 SED-048-7 (27:27:27001) 7.00	480U	[42]J	
SED-038-10 02222001 10.00	130J	[1000]U 1600	
7000	13000 2000		
	(6)	kg) 3	
5358	(ug/kg)	(ug/kg)	
	(ug/kg) 13000		
CONSTITUENT CONST	ন বি	Pyrena (ug/kg) 30 Pyrena (ug/kg) 50000	
	e a	Ť	

Page: 3 of 4 Date: 01/11/2006

Table 5
SVOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

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	218		SED-10	SED-10	T GO	SEPAI
	SAMPLEID		SED-10.4	SED-10-10	SEDETICS	SEPTIRE
CONSTITUENT	DATE DEPTH(A)	NY-SCOL.	02/22/2001 4.00	02/22/2001 10:00	3.00	8.00
Starting Depth	(feet)		4.00	10.00	3.00	8.00
Ending Depth	Î,		8	10.00	3.00	900
2.4-Dimethylphenol	(ug/kg)	O A CO (INCOMENDADA EL AZOTETA EL ESTENCIO EL ESTENCIO (INCOMENSARIO) QUE UN INFORMACION DE L'ARRENT D	No Test	380U	No Test	000E
2:Wethylnaphthalona	OX60	36400	NoTest	380U	NoTes	7.5
4-Chloroaniline	(ug/kg)	220	No Test	[380]U	No Test	n[006]
Acenaphthene	(ug/kg)	20000	120	380U	12004	N999
Acenaphthylene	(ug/kg)	50000	847	380U	Pe01	110J
Anthracene	(b/kg)	20006	3.	380∪	1600	490/ 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzo(a)anthracene	(ug/kg)	224	[290]	38U	[2800]	[830]
Benzolalbyrane			2.91	788	[cool	
Benzo(b)fluoranthene	(ug/kg)	220	[400]		[3100]	[840]
Benzo(g.h.)perylens	(mg/kg)	20000	180.		19091	270U
Benzo(k)fluoranthene	(ug/kg)	220	150J		[1300]	[290]
Bis(2-ethythexyt)phthralete	(SI/M)	20000	No Test	708c	No Test	1200
Chrysene	(ug/kg)	400	3007	380U	[3100]J	L[077]
Dienzo(an)animaene			Zeolu	n (Sa)	B A	721
Dibenzofuran	(ug/kg)	6200	No Test	380U	No Test	320J
Dimethylphthalate	(pyka)	2000	No Test	380U	No Test	1006
Fluoranthene	(ug/kg)	50000	740J	21J	7000	2000
	(May 4)	20000	200	380U	25001	5400
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	140J	38U	1500	340

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Table 5
SVOCs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

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Page: 1 of 8 Date: 01/11/2006

Table 6

Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples

National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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A Company of the Comp	•	Š						1000
	SED-01A	02/18/2001	12.00	12.00	12.00	3.2	0.000	2 630
	SED-OI	01/04/2001	2	Q	0	5		
	ij	Š	70.	10.00	10.0	6460	0.0	42.82
		8						
	SED-O	01/04/2001	8	4.00	4.00	98.8	76.9	241 93
Production of the control of the con								
		8			Ì	1990 1990 1970 1970 1970 1970 1970 1970		
	W-02	9	88	8.00	8.00	10.7	458	
						1000		
	Ł		₩H H	(leel)	(feet)	Co/on)	(mg/kg)	90
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							Total Carcinogenic PAHs	
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		E		Starting	Ending Depth	Total B	Total C	Total T

Page: 2 of 8 Date: 01/11/2006

Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

SED-02B 02/20/2001 8.00	003	8.00	3.5	0.000	8
SED-02A. 02/20/2001 20.00	2000	20.00	36	0.00	0.00
SED-02A 02/26/2001 12:00	12.00	12.00		0.000	
SED-02 01/04/2001 12:00	8.00	12.00	162	11.75	
SED-02 01/04/2001 4.00	400	4.00	229	421	
SED-01B 02/19/2001 18.00	16.00	16.00	31	0.00	9.0
	(Jae)	(feet)		(mg/kg)	
CONSTITUENT	Sarting Depth	Ending Depth	Total Bit St.	Total Carcinogenic PAHs	
ermene X. ini	ď	ᇤ	£	卢	

Page: 3 of 8 Date: 01/11/2006

Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-028 022202001 20:00 20:00	20.00	•	0.000	380
SED-02B 02202001 20:00	20.00	0	0.000	0000
SED-028 02202001 20.00	20.00	o	0.000	
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ED.			PAHs (mg/kg) ((<mark>mo/lo</mark>)
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ED.	Med terrogramment conductivity and terrogramment of the conductivity of the conductivi		PAHs (mg/kg) ((<mark>mo/lo</mark>)

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Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-06 02/19/2001 4.00			7.422 7.423 7.423 7.423 7.433	S)	
SED-05 02/19/20	4 8	4.00	ğ	340	
SED-048 02/22/2001 10.00	8	8		0	2
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SED-048 02/22/2001 7.00	8	8	9	0.059	2
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SED-044 02/22/78001 7.00	8	7.00	0	0.00	00 00 00
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SED-04A 0222/2001 3.00				0	
SEL 0222	8	3.00	7.0	0.00	
SED-04. 01/04/2001 7.00					
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CONSTITUENT	Starting Depth	Ending Depth	Total BTEX	Total Carcinogenic PAHs	Total PAHS
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Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-068 02/19/2001 8.00				-23111
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CONSTITUENT Starting Depth	Ending Depth	Total BJEX	Total Carcinogenic PAHs	Total PAHs
CONSTITUENT Starting Depth	Ending Depth	Total BIEX	Total Carcinogenic PAHs	Total PAHs

Page: 6 of 8 Date: 01/11/2006

Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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SED-09 02/22/2001 3.00				_	I	
SED:08 02722/200	3.00	3.00	39.2	4.09	15.084	
SED-08 62/22/2001 10:00	88	10.00	0	00.00	0.035	
SED-07 02/20/2001 12.00	12.06	12.00	0	70.0	0,182	
SED-07: 02/20/2001	8	1.00	7.3	90:0	0.138	
SED-06 02/20/2061 12.00	L	(
	102	12.00	6.0	0.0	0000	
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			1.70			
7 3 3 3		i principal de miner		-ts	TOTAL	
Capitaly And Aldrew Co.	10 days 11112		Total BTEX	Total Carcinogenic PAHs		
NSW MEN	Starting Depth	Ending Depth	A BITOX	al Carcino	al PAHs	
	8	Enc	Ö	Tot	đ	

Page: 7 of 8 Date: 01/11/2006

Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Inclusive SAMPLE TYPE: Soil

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	SED-11	22 8 38 8	3.00	337.9	14.84	
	SED-10	022222001 10.00	10.00	0	0.01	0.000
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	\$ED-10	4.00	4.00	•	1.49	
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	STE SAPE	DATE DEPTH (M)	(feet)	(0)6n)	(mg/kg)	
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					PAHs	
		CONSTITUENT	Serting Leptin Ending Depth	TotalBTEX	Total Carcinogenic PAHs	
		8 .	Setting Depth Ending Depth	TotalB	Total C.	

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Table 6
Total BTEX and Total PAHs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 01/02/2001 thru 10/12/2004 - Indusive SAMPLE TYPE: Soil

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TTSED03 TISED03_1E 107/2/2004 2:00	3.50	8	No Test	42.2	131.55	
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Table 7
PCBs Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

CONSTITUENT STE SAMPLED DAYIE DEPTH (ttp://www.scoi.stm	SITE SAMPLEID DATE DEPTH (ft) (feat)	SED-03B SED-03B-10 0222/2001 3 10.00	SED-08 SED-08-10 027222001 10.00	
	Ending Dapon			
			230U 230U	

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Table 8
Metals Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

	SITE		\$ 800 GS GS GS G	8 90 das 90 das	
CONSTITUENT		W-Scot.	027272001 5.00	02/22/2001 5.00	
Starting Depth	(feet)		5.00	5.00	
Ending Depth	Ē		500	200	
	(mg/kg)		10400	merchanicum interpretation in the property promoters by the complete production of the complete production in the complete programme of the complete production of the complete product	A CONTRACTOR AND A CONT
Antimony			3.98	380	
Arsenic	(mg/kg)	7.5	[14.5]	5.1	
Barlum		300	230	10/B	
Beryllium		0.16	[0.81]B	[0.88]B	The up to 1980 the three residency convertibles for the property of the proper
Cadmium	75	0	8.1	0.27 U	
	(mg/kg)		33200	17100	A AND AND AND AND AND AND AND AND AND AN
Chromlum		*	F 68	18.6	
	O DO O HILL O'LUT AMARIL L'U LOGIORE, CU GOL UNICO	30	14.1B	T.18	
Сорраг		25	[208]	[38.5]	
		2000	[52000]	[25400]	Constitution of the consti
Lead	(mg/kg)	600	[888]	12	
Magnesium	(mg/kg)		9810	4660	Annual statement of the first that was the severe partition of the first first that the first cost (1900) for the cost of the
Wanganesa	(mg/kg)		575	230	
		0.1	[6.4]	0.056U	and and an analysis of the state of the stat
Note	600		[F.B.]	 	
Wr.	(mg/kg)		1240B	1640B	
Silver	(mo/kg)		6.7	0.47.U	
	(mg/kg)		182U	425B	CONTROL WAS THE CONTROL OF THE CONTR
			- And Andrews		

Page: 2 of 2 Date: 01/11/2006

Table 8
Metals Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

	0.7079	
SED-08 SED-08-8 02/22/2001 5.00		
15-16-16 14-1-16-2		
	727777	
	A CAT In charles	
	22.6B [763]	
338°	8 5	
SED SED 5.00	22.6B [75.3]	
SED-03B SED-03B-5 02/22/2001 5.00		
	.3 201	
8 8 8 6	25.3 [11 640]	
N. T.	150 20	
. ≗ s	100 A	
	(mg/kg) 150 (mg/kg) 20	
0000	digoil	
##124 116 140 ##1 17		
	and the second	
	199144 1711 - 189 1711 - 189 1711 - 189	
Š	E	
SITE SAMPLE DATE CONSTITUENT DATE DATE DEPTH (0)	Vanadium Znc	
8	S S	

Page: 1 of 1 Date: 01/11/2006

Table 9
Cyanide Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

August 2 Company many many 1882 (1991)		2010		 	
	100	3			
	Common A support				
er 24 Nooral	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	200				
	10				
888		,			
8 8 8 8	5.00	25.0U			
SED-08 SED-08-8 OZZZZZD01					
SED-038 SED-038-5 02/22/2001					
3332	5.00	25.0U			
8888	5.00	25.			
Warning of the					
	300		•		
8	F 0.0				
ź	10 CACA				
	rži H	e de la companya de l			
STE SAMPLE ID DATE DEPTH(M) NY-SCOL	(feet)	1			
e e e e e	eet)	(mg/kg)			
0000	9	ب ا			
	9010				
	.000				
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				
	1000	T.			
		1			
	195				
	4				
<u> </u>	De De				
CONSTITUENT	Starting Depth	Cyanide			
	Sta	Ö			
		n.K	 	 	

Page: 1 of 1 Date: 01/11/2006

Table 10
Physical Parameters
Detected in Off-Site Swale Area Samples
National Grid Ilion (East Street) Site

2001 - Inclusive

PERIOD: From 02/22/2001 thru 02/22/2001 - Inclusive SAMPLE TYPE: Soil

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	l					7
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	l			12.028		
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	l			7741618		
	l			erani.		
	l	- COOK		3.50		3332
Janear Hill Control	l	22222		2000		
	l	1,0070,7888				0000
						2.700
	ı					
				21200		
		X				
SED-08 SED-08-8 02/22/2001 5.00	ı					
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226						11115
22200		11111	_			o
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8 8 8	5.0	200	20	6	126	2
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5				1110000		
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				3240		
ningle ss ations		20100				
						11100
		11122				
			6	6	6	65
SITE SAMPLE ID DATE DEPTH (1).	(feet)	(feet)	(шд/кд)	S BE	(mg/kg)	(mg/kg)
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in the second	ij	2	Ē		<u> </u>	
	Starting Depth	Ending Depth	Bromate	2	Sulfur	#
CONSTITUENT	ŭ	ā	ã	D.La	જ	
		::HijiE		1000		-03888

TABLE 11 FINGERPRINT ANALYSES ILION (EAST STREET) SITE

	SAMPLE LOCATION	DEPTH	SAMPLE DATE	SAMPLE CHARACTERIZATION
فالإن	SED-03B	5.0	02/22/01	Severely biodegraded residual fuel oil; possibility of subordinate coal tar contribution
	SED-04A	3.0	02/22/01	Insufficient signature
	SED-05	4.0	02/19/01	Severely biodegraded residual fuel oil
	SED-08	5.0	02/22/01	Very severely biodegraded residual fuel oil
	SED-10	4.0	02/22/01	Severely biodegraded residual fuel oil
	SED-11	3.0	02/22/01	Severely biodegraded residual fuel oil
	SED-11	8.0	02/22/01	Very low amplitude signature - severely biodegraded residual fuel oil
	SWALE-SED1	_	12/14/99	Severely biodegraded residual-grade fuel oil

Note: Most probable exposure time of residual fuel oil in samples, except locations SED-04A and SED-08, is twenty years or more. For location SED-08, the most probable exposure time is fifty years or more.

APPENDIX A

ew York State Department of Environmental Conservation

Division of Environmental Remediation Bureau of Western Remedial Action, Room 352 625 Broadway, Albany, New York 12233-7017

Phone: (518) 402-9662 • FAX: (518) 402-9679

Website: www.dec.state.ny.us



MEMORANDUM

Ernest Lucantonio, Bureau of Spill Prevention and Response, Region 6 TO:

FROM: Eleffrey A. Edwards, P.E., Bureau of Western Remedial Action SUBJECT: Petroleum contamination

August 30, 2001 DATE:

Enclosed is a summary of sediment cores taken from a swale behind the Village of Ilion DPW as part of the NIMO Ilion former MGP investigation. As you can see, petroleum was observed. The samples are from the same general area as Spill No. 0002999, which I previously reported. This contamination does not appear to be related to the former MGP.

Please call me at (518) 402-9662 if you have any questions or would like to discuss.

R. Schick cc:

M. Rivara - DOH Troy

G. Rys - DOH Herkimer

C. Willard - Niagara Mohawk

Spill Incidents Database Search

More information:

Environmental Remediation Databases Glossary of Spills Database Terms

More searches: New Spill Incidents Search

Other Links of Interest...

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 0002999

Spill Date/Time

Spill Date: 06/09/2000 **Spill Time:** 04:28 PM

04:28 PM

Location

Spill Name: ILION DPW
Address: 125 EAST STREET
City: ILION V County: Herkimer

Spill Description

Material Spilled:

Waste Oil/Used Oil (Not Fuel)

Amount Spilled:

0.0000 Gal.

Cause: Human Error

Source: Institutional, Educational, Gov., Other

Resource Affected: Soil

Waterbody:

Record Close

Region Close Date: 10/04/2001

If you have questions about this reported incident, please contact the <u>Regional Office</u> where the incident occurred.

Other Links of Interest

Information about the Spill Response and Remediation Program
Phone Numbers for Spill Response and Remediation

APPENDIX B

FU	31E	<i>υ (</i> Ω)	VVI	IEELE	=r\				(Page 1 of 1)
PRO PRI PRI	JECT: ! OJECT ! OJECT !	Viagara NO: 214 LOCATI	Mohawi 11,000. ON: Ilio	Power Co 0000.0400 n, New Yor	orp. 00 rk	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 01-02-01	Groundwater Depi Gd Surface Elev: X,Y Coordinates:	ith : : :
Depth in feet Feet	Interval	Recovery (ft)	nscs	GRAРНІС		DE	SCRIPTION		Comments
1 1 1	0-4	2.5	SM			Silty f-m SAND and			
3	U-4	2.5	СН	P	lastici	ty.	Y; moist, dense, medlum to		ome discoloration.
5 5 6	4-8	2.5	SM	В	lack S	Silty f - m SAND; we	et.		Visible oil sheen. efusal at 6.2 ft bgs.
7									
15	····	, , , , , , , , , , , , , , , , , , ,		<u></u>					

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PR	OJECT	NO: 21	41.0000	k Power ().0000.04 on, New)	000 Driller	: 01-02-01	(Page 1 of 1) Groundwater Depth: Gd Surface Elev: X,Y Coordinates:	of 1)	
Depth in feet Feet	Interval	Recovery (ft)	nscs	GRAPHIC		DESCRIPTION	Comments		
2	0-4	2.5			Black Silty f to m SAI Gravel; moist, soft.	ND and angular to subangular 20	0 mm	,	
6	4-8	2.0	SM		Grading to wet.		Visible oil sheen.		
8					Brown Silty CLAY; mo	oist, stiff, high plasticity.	Odor Sill Sleen detected.		
10	8 - 12	2.8	СН						
12		,			Brown CLAY; moist, s	stiff, high plasticity.	Odor and sheen detected.		
141111111	12 - 16	3.0	СН						
16111111					 				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16 - 20	3.2	ML	To the second se			Boring complete at 20 ft bgs.		
20-							-variety contribute at 20 ft bys.		

FOST	ER 团	WH	lEELER		LOG OF BO	ORING SED-1 (Page 1 of 1)
PROJEC.	FNO: 214	41.0000.	c Power Corp. .0000.04000 n, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 01-03-01	Groundwater Depth : Gd Surface Elev: : X,Y Coordinates: :
Depth rest 2001	Recovery (ft)	nscs	GRAPHIC	DE	SCRIPTION	Comments
1 - 1 - 2 - 0 - 4 - 8 - 3 - 1 - 1 - 8 - 7 - 1 - 1 - 8 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		PT		PEAT, some f Sand	1; wet	Organic and petroleum odor Sample: SED 1-4 Organic and petroleum odor
8 - 1 9 - 1 10 - 1 11 - 1 12 - 1 13 - 1 14 - 1 15 - 1	A CONTRACTOR OF THE CONTRACTOR			· .		Organic and petroleum odor Sample: SED 1-10 Boring complete at 12 ft bgs

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FOSTE	R 🗹	WH	IEELER				(Page 1 of 1)
PPA IFCT	NO 714	LT.CUUU.	Power Corp. 0000.04000 n, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Dærragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 12-19-01	Groundwater Dep Gd Surface Elev: X,Y Coordinates:	th : : :
Depth in feet 220	Recovery (ff)	uscs	GRAPHIC	DES	SCRIPTION		Comments
0	<u> </u>		PEA	T, some roots, stems	and white ash.		No odors.
1 - 1 2 - 1 2 - 1 0 - 4	3				ı		
3-							
4		PT					
5-3							
6-1 4-8	3.5						
7-1 1 8-1					d at a than as a lat		
9-7		СН	Grey	y sitty CLAY, some roo lium plasticity.	ots, stems and shells; moist	, 3011,	
10-1 8-1	2 4		PEA	AT, some white ash, ro	ots and stems.		
11-1		PT					Sample: SED1A-12 No odors.
12-			Gre	y Silty CLAY, some ro	ots and stems; wet, soft, me	mulbe	No odars.
13-112-	16 2-	СН					•
15							
16-71		-	Gre	y Clayey SiLT, trace f	sand; wet, very soft.		
16 11 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19							
18-118-	20 3	ML				10 A	
19-7						Boni	ample SER 1267A

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FO:	STE	RW	VVF	HEELE	K				(Page 1 of 1)
PRO	JECT	NO: 214	41.0000	k Power Con .0000.04000 in, New York	1	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 12-19-01 : 12-19-01	Groundwater Dep Gd Surface Elev: X,Y Coordinates:	th : : :
Depth in feet	Interval	Recovery (ft)	nscs	GRAPHIC		DES	SCRIPTION		Comments
0-	· · · · · ·			FII	LL m	aterial: Gravel and	red Brick; wet.		No odors.
1 2		2	AR						
3-1 - 1									
4-1				Gr	ey S	ilty CLAY, some roo	ots and stems; wet, soft, hig	h	
5-				pla	stici	ty.			
6		3.5	СН						
7-1 1 8-1									Sample: SED1B-8
9				PI	EAT.	•		·	
10 -		4	PT						
11 4			ML	Lig	ht g	rey SILT, some sma	all shells; soft.		
12-				Gr	ey s	ilty CLAY; wet, very	soft, medium plasticity.		
13-1 14-1		3.5	СН						
15									
16			<u> </u>					Boring	ample: SED1B-16 complete to 16 ft
17-								·	
18-									
19-7 20-7					•			•	
_20-									

-

r'				IEELER	(Page 1 of 1)				
PF	OJECT	NO: 21-	41.0000	Power Corp. 0000.04000 n, New York	Driller : Lyon Drilling Co., Inc. G	roundwater Depth : d Surface Elev: : ,Y Coordinates: :			
Depth in feet Feet	Interval	Recovery (ft)	nscs	GRAPHIC	DESCRIPTION	Comments			
0-				Brow	n silty CLAY, some roots and stems; moist, soft, high city.	Organic and Petroleum odors.			
1-	1								
2-		2.5	СН						
3-					•				
4-				Brow	n PEAT, some roots and stems; wet, soft.	Sample: SED-02-4 Organic and Petroleum odors.			
5-									
6-			Van 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1						
7-									
8-			PT			Organic and Petroleum odors.			
9-									
10-						Sample: SED02-10			
11-									
og 12-	-					Boring complete to 12 ft bgs.			
Logs/SED									
Bulletin 14-									
12-13-14-14-14-14-14-15-15-15-15-15-15-15-15-15-15-15-15-15-									
10-07-2002 p.Win	L	······································							

PR	OJECT	NO: 21	41.0000	k Power Co 0.0000.0400 on, New Yor	Driller : Lyon Dri Drilling Method : Geoprob Date Started : 02-20-01	Driller : Lyon Drilling Co., Inc. Gd Surface Elev: : Drilling Method : Geoprobe Direct Push X,Y Coordinates: : Date Started : 02-20-01				
Depth n feet Feet	interval	Recovery (ft)	nscs	GRAPHIC	DESCRIPTIO)N	Comments			
0- 1- 2- 3- 4- 5- 6-	0-4	1	SM	E	ht brown Silty f - m SAND, some we ist, loose.					
10	8 - 12	3.5	PT CH	Re	idish-brown PEAT. y CLAY, trace f Sand; very moist, soldish brown PEAT; very moist, soft.	oft, high plasticity.				
13 14 15 1	12 - 16	4	СН	Gr	y CLAY; very moist, soft, high plast	icity.	Sample: SED2A-12			
16-117-118-1	16 - 200	2.5	PT		idish brown PEAT; very moist. y Siity f SAND, some small shells; v	vet loose				
19 1			SM	5	y only rozhro, some sman snens, v		Boring Complete at 19.5 tt bgs.			

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PROJI	ECT:	: Nia	igara N	Aohav 1.000	HEELER ok Power Corp. 0.0000.04000 on, New York	Geologist : Luke Darragh Driller : Lyon Drilling Co., Inc. Drilling Method : Geoprobe Direct Push Date Started : 02-20-01 Date Completed : 02-20-01			(Page 1 of 1) Groundwater Depth : Gd Surface Elev: X,Y Coordinates: :		
Depth in feet Feet	Blow Count	Recovery (ft)	nscs	GRAPHIC		Date Completed DESCRIPTION		Time	Date	Sample I.D.	Comments
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3.5	ML		0.0 - 4.0' Brown Roots and Stem	Sandy SILT, some \ s; damp, soft.	Wood (Fill) and		02-20-0t		
3 4 5 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3.5			soft, high plastic				02-20-01	SED28-8	
9-11-11-11-11-11-11-11-11-11-11-11-11-11		3			soft, high plastic	CLAY, same Roots city. AT, same Roots; ma		. A continue of the continue o	02-20-01		
12- 13- 14- 15-		4			plasticity.	ey CLAY; very moist,			02-20-01		
16- 17- 18- 19-		4			wet, loose.				02-20-01	SED28-20	

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LOG OF BORING SED-3 FOSTER WHEELER (Page 1 of 1) PROJECT: Niagara Mohawk Power Corp. PROJECT NO: 2141.0000.0000.04000 PROJECT LOCATION: Ilion, New York Groundwater Depth : Luke Darragh Geologist Gd Surface Elev: : Lyon Drilling Co., Inc. : Geoprobe Direct Push X,Y Coordinates: **Drilling Method** Date Started Date Completed Recovery (ft) GRAPHIC nscs **DESCRIPTION** in feet Feet 0-Brown PEAT, some Roots and Stems; wet soft. No petroleum odor. 2-5 3-Sample: SED3-4 Brown Silty CLAY, some Roots and Stems; moist, very soft, high plasticity. 5-CH 2.1 Boring complete at 8 ft bgs. 8-10-11-12-

O	STE	R	W	HEEL	ER	LOG OF BORING SED-3A					
						(Page 1 of 1)					
PRO	DJECT	NO: 21	41.0000	k Power ().0000.040 on, New Y	000	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 02-20-01 : 02-20-01	Groundw Gd Surfa X,Y Coor			
pth feet	val	Recovery (ft)	S	GRAPHIC		DF	SCRIPTION		Comments		
eet	interval	Reck	nscs	GR _A	DESCINE HON				Com		
0 1		<u> </u>			PEAT.						
14			PT								
2 =	4				Grey S	ilty CLAY, some f	Sand; dry, stiff, low plasticity.				
3-1			CL								
4					Light gr	ey ASH, some and	g Gravel, some m Sand		Fill-like material.		
5-				\bowtie	-						
6-	1.5		AR	\bowtie							
7-				\bowtie							
8-3				XX	No Rec	overy.			•		
9-					•	·					
10-	0										
11-											
12-					Reddish	brown PEAT; mo	ist.				
13-			PT								
14-	4			建春多	Grey CI	LAY; moist, soft, hi	gh plasticity.				
15-			c		•	·					
16-			SM						Sample: SED3A-16		
17-					Grey Si	Ity f - m SAND; we	t, dense.				
18-	4				•						
19-			СН								
20-						**************************************	. 1d may or 15th de year delivery de the 1000 to down oder described by 1. Labour de Accessor de 1. Labour de 1. Labo		Sample: SED3A-20 Boring complete at 20 ft bgs		

) hi	ar M	441	HEELER	LOG OF BORING SED-3B (Page 1 of 1)					
PRO	JECT I	NO: 214	11.0000	k Power Corp. .0000.04000 on, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 02-22-01 : 02-22-01	Groundwater Depth : Gd Surface Elev: : X,Y Coordinates: :			
epth feet	interval	Recovery (ft)	nscs	GRAPHIC	DE	SCRIPTION	Corruments			
0 1 2 3 4	.6		GP		and Gravel, some f					
5 6 7	4		SM PT	Reddis	h brown PEAT; mo		Slight odar.			
977777	2		сн	Grey C	LAT, SOINE FEBI, II	wist suit, right plesticity.	Sample: SED-3B-10 Slight odor.			
11 12 13 14 15 15										

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COTE	🗅 (त्री	\//I-	IEELER		LOG OF BO	RING SED-4
.031E	LI W	WW.	E Hein Dass Stor State C S			(Page 1 of 1)
PROJECT !	10: 214	11.0000.	Power Corp. 0000.04000 n, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 01-04-01 : 01-04-01	Groundwater Depth : Gd Surface Elev: : X,Y Coordinates: :
eet Interval	Recovery (ft)	nscs	GRAPHIC	DE	SCRIPTION	Comments
2	1.2	SM		0 Grey Silty f SAN	D; wet, loose. Y, some f Sand; wet, soft, lov	Organic and Petroleum oders Sample SED4-4
5	3.0	CL				Sample SED4-8 Organic and Petroleum od
9 11 11 11 11 11 11 11 11 11 11 11 11 11	2.5	And				Boring complete at 12 ft b
13 - 14 - 1	<u> </u>	<u> </u>				

PROJECT: Niagara Mohawk Power Corp. PROJECT Not: 2141,0000,0000,04000 PROJECT Not: 2141,0000,0000,04000 PROJECT LOCATION: Illion, New York Dillion Method Date Started :02-22-01 Date Completed :02-22-01 Date Completed :02-22-01 Date Completed :02-22-01 Date Completed :02-22-01 Date Completed :02-22-01 Grey Silty CLAY, some f Sand, trace m Sand; very moist, soft. Grey Sandy Silt, some f Sand; wet, soft. Sample SED: 4A-3 Grey Silty f SAND, some m Sand; wet, loose. Boring complete at 10 ft bgs.	:09	STE	RM	Wŀ	HEELER		LOG OF BO	RING	SED-4A
PROJECT NOT. 2141,0000,0000,04000 PROJECT LOCATION: Illon, New York Drilling Method Date Started 102-22-01 Proper law and the part of the		~ . ==	w	~ ~ ~ •					(Page 1 of 1)
Grey Sitty CLAY, some f Sand, trace m Sand; very moist, soft, high plasticity. Grey Sandy SiLT, some f Sand; wet, soft. Grey Sandy SiLT, some f Sand; wet, soft. Sample SED: 4A-3 Grey Sitty f SAND, some m Sand; wet, loose. Grey Sitty f SAND, some m Sand; wet, loose. Boring complete at 10 ft bgs.	PRC	JECT !	NO: 214	11.0000	.0000.04000	Driller Drilling Method Date Started	: Lyon Drilling Co., Inc. : Geoprobe Direct Push : 02-22-01	Gd S	urface Elev: :
Grey Sitty CLAY, some T Sand, dade in Sand; very moist, soft, high plasticity. Grey Sandy SiLT, some f Sand; wet, soft. Grey Sandy SiLT, some f Sand; wet, soft. Sample SED: 4A-3 Grey Sitty f SAND, some m Sand; wet, loose. Grey Sitty f SAND, some m Sand; wet, loose. Boring complete at 10 ft bgs.	pth feet	interval	Recovery (ft)	USCS	GRAPHIC	DE:	SCRIPTION		Comments
1	7				Grey S soft, hig	ilty CLAY, some f S th plasticity.	Sand, trace m Sand; very mo	oist,	
Grey Sandy SiL1, some if Sand; wet, som. Sample SED: 4A-7 Grey Silty if SAND, some in Sand; wet, loose. Boring complete at 10 ft bgs.	2-1	0-4	1.1	сн					
Sample SED: 4A-7 Grey Silty f SAND, some m Sand; wet, loose. Boring complete at 10 ft bgs	4				Grey S	andy SILT, some f	Sand; wet, soft.	· · · · · ·	Sample SED: 4A-3
Grey Silty f SAND, some m Sand; wet, loose. 9 8 - 12 1 SM Boring complete at 10 ft bgs.	9	4-8	3.7	ML					Sample SED: 4A-7
Boring complete at 10 ft bgs.	8-				Grey S	ity f SAND, some r	m Sand; wet, loose.		
Boring complete at 10 ft bgs.	9 1	8 - 12	1	SM					
	10 1								Boring complete at 10 ft bgs.
	2-]								
	13-								
12-	14								
	15-								

V., 50

		4.0		łEELI						(Page 1 of 1)
PRO	JECT	NO: 214	41.0000	k Power Co .0000.0400 on, New Yo	10	Geologist Drilter Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling C : Geoprobe Dire : 02-22-01 : 02-22-01	Ca., Inc.	Groundwater Depti Gd Surface Elev: X,Y Coordinates:) ; ; ;
Depth in feet Feet	Interval	Recovery (ft)	nscs	GRAPHIC		DE:	SCRIPTION			Comments
0-				// G	irey Si	ity CLAY; moist, so	oft, high plasticity	,		
1-1									7	
2-		.5	·							
3-1			СН							
4-									!	Slight odor.
5-										
6-1		4	·	G	rey Sil	ty f - m SAND, Sor	ne Clay; wet, loo	se, m density.		
7-							•	•		mple: SE04B-7
81			SM							
9-		2								
10									Sar Boring o	nple: SED4B-10 complete at 10 ft bgs
11-										
12-										
13-										
14-										
15										
19]	<u> </u>	······································								

LOG OF BORING SED-5 FOSTER WHEELER (Page 1 of 1) PROJECT: Niagara Mohawk Power Corp. Geologist : Luke Damagh **Groundwater Depth** PROJECT NO: 2141.0000.0000.04000 PROJECT LOCATION: Ilion, New York Driller : Lyon Drilling Co., Inc. Gd Surface Elev: **Drilling Method** X Y Coordinates: : Geoprobe Direct Push Date Started : 12-19-01 Date Completed : 12-19-01 Recovery (ft) Depth uscs **DESCRIPTION** in feet Feet 0 Black Silty f - m SAND, some Roots and Stems; wet, loose. Petroleum odor. SM 0-4 3.1 2-PEAT, some Roots and Stems; wet. ₽T Grey CLAY, some Roots; wet, very soft, high plasticity. 3-ÇН Grey CLAY, some Roots; wet, very soft, high plasticity. 6-3.5 CH Grey Silty CLAY; wet, very soft, high plasticity. 9-10-8 - 12 11 Boring complete at 12 ft bgs. No samples collected. 12 13 14 15

				HEELER		A she Same-t		· · ·	ndustas N-	(Page 1 of 1)
PROJE	ECT N	NO: 214	1,000	vk Power Corp. 0.0000.04000 ion, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Is : Geoprobe Direct Pi : 12-19-01 : 12-19-01		Gd S	ndwater Der jurface Elev: Coordinates:	:
Bow Count	Recovery (ff)	nscs	GRAPHIC		DESCRIPTION	N	Time	Date	Sample I.D.	Comments
2 37	2.5	AR/SM	XXXXXX	0.0 - 0.5' FILL (0 0.5 - 4.0' Brown trace c Sand; mo	Grey GRAVEL for pa Silty f - m SAND, so ist	rking lot). me small Gravel,	1418	12-19-01		Slight odor.
4 5 6 7	4	CO/46		trace c Sand; mo	Silty f - m SAND, so ist. some Roots; moist. :LAY, trace f Sand; s		1420	12-19-01	SED5-6	
8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	0			8.0 - 12.0' No re	covery.		1422	12-19-01		
12 13 14 15 11 15 11 15 11	2			12.0 - 16.0' Grey plasticity.	CLAY, trace f Sand	d; moist, soft, high	1427	12-19-01		
16 17 18 19 19 20	3.5						1430	12-19-01	SED5-20	

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LOG OF BORING SED-5B FOSTER WHEELER (Page 1 of 1) **Groundwater Depth** PROJECT: Niagara Mohawk Power Corp. : Luke Darragh Geologist PROJECT NO: 2141.0000.0000.04000 : Lyon Drilling Co., Inc. Gd Surface Elev: Driller PROJECT LOCATION: Illion, New York : Geoprobe Direct Push X.Y Coordinates: **Drilling Method** Date Started : 12-19-01 Date Completed : 12-19-01 Recovery (ft) Comments Depth DESCRIPTION in feet Feet 0. Grey SAND and Gravel. Grey SAND, Gravel and red Brick. 0 - 4 SP 2 3-Black Silty CLAY, some roots, trace f Sand, moist, soft, high plasticity. 2 CH 6-] 4 - 8 8 No recovery. 9. 0 8 - 12 10-11 12 Grey CLAY, some Roots and Stems; moist, very soft, high plasticity. 13 12 - 16 14-15 CH 16 Grey CLAY, some f - m Sand; wet, very soft, high plasticity. 17-18-16 - 20 1.5 19 Boring complete at 20 ft bgs. 20 10-07-2002

LOG OF BORING SED-6 FOSTER WHEELER (Page 1 of 1) : Luke Darragh **Groundwater Depth** PROJECT: Niagara Mohawk Power Corp. Geologist PROJECT NO: 2141.0000.0000.04000 Gd Surface Elev: Driller : Lyon Drilling Co., Inc. PROJECT LOCATION: Ilion, New York Drilling Method X,Y Coordinates: : Geoprobe Direct Push : 12-20-01 Date Started Date Completed : 12-20-01 Recovery (ft) GRAPHIC Depth DESCRIPTION in feet Feet ٥. Grey Silty CLAY, some small roots and organic material; wet soft medium plasticity. CH 2-0-4 2.5 Sample: SED6-4 Reddish brown PEAT, some roots and stems; very moist. 4 - B 3.5 PT 3.5 10-6 - 12 11 Grey brown Silty f - m SAND, wet, loose. SM 12 13 15-

TE	R团	WH	IEELER		LOG OF BC	ORING S	
ECT N	10: 214	1.0000	.0000.04000	Geologist Dritler Dritling Method Date Started Date Completed	: Luke Darragh : Lyon Driffing Co., Inc. : Geoprobe Direct Push : 2-20-01	Gd Surfa	(Page 1 of 1) vater Depth : ace Elev: : rdinates: :
interval	Recovery (ft)	USCS	GRAPHIC	DE	SCRIPTION		Comments
		PT	Redd	ish brown PEAT; we	t.		
4 - 8	3.5	СН	Grey	CLAY, some roots a city.	nd stems; very moist, soft, hi	igh .	Sample ID: SED7-4
ACHIVIAN AND AND AND AND AND AND AND AND AND A		ML			i; wet, soft.		
3 - 12	4.0	СН	Grey	CLAY; v moist, v soi	ft, high plasticity		Sample ID: SED7-12 Boring complete at 12 ft bgs.
	CT: NECT L	ECT Niagara ECT NO: 214 ECT LOCATIO Recovery (f) 3.5	CT: Niagara Mohawii ECT NO: 2141.0000 ECT LOCATION: Ilio SOSO PT O - 4 3.5 CH	CT: Niagara Mohawk Power Corp. ECT NO: 2141.0000.0000.04000 ECT LOCATION: Ilion, New York SON BREAK PT Redd A-8 ML Grey Redd A-8 ML Grey Grey Grey Grey Grey	Driller Drilling Method Date Started Date Completed Section 10 - 4 3.5 CH CH CH CH CH CH CH CH CH C	TER WHEELER CCT: Niagara Mohawik Power Corp. ECT NO: 2141,0000.0000.0000.04000 ECT LOCATION: Ilion, New York Drilling Method Geoprobe Direct Push Date Started 2-20-01 Reddish brown PEAT; wet. PT Grey CLAY, some roots and sterns; very moist, soft, h plasticity. CH Grey CLAY, some roots and sterns; very moist, soft, h Reddish brown PEAT. Reddish brown PEAT. Grey CLAY; v moist, v soft, high plasticity	GCT. Niagara Mohawk Power Corp. ECT NO: 2141,0000,0000,0000 ad000 ECT LOCATION: Ilion, New York Date Started : 2-20-01 Completed : 2-20-01

PROJECT: Niagara Mohawik Power Corp. PROJECT NO: 2141,0000,0000,04000 PROJECT LOCATION: Illion, New York Project Project	PROJECT: Niagara Mohawk Power Corp. PROJECT NO: 2141.0000.0000.04000 PROJECT NO: 2141.0000.0000.04000 PROJECT LOCATION: Illion, New York Project No: 2141.0000.0000.04000 Project No: 2141.0000.0000.0000.04000 Project No: 2141.0000.0000.04000 Project No: 2141.0000.0000.0000.04000 Project No: 2141.0000.0000.04000 Project No: 2141.0000.0000.0000.04000 Project No: 2141.0000.0000.04000 Project No: 2141.0000.0000.0000 Project No: 2141.0000.0000.0000.04000 Project No: 2141.0000.0000.0000.0000.0000 Project No: 2141.0000.0000.0000.0000.0000.0000.0000 Project No: 2141.0000.0000.0000.0000.0000.0000.0000.	FOS	STE	R®	WH	HEELE	R	FOG OF BC	ORING SED-	(Page 1 of 1)
Brown Sity SAND, trace subangular Gravel; wet, loose. 3	Brown Sitty SAND, trace subangular Gravel; wet, loose. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. Reddish brown PEAT, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity.	PRO	JECT N	IO: 214	11.0000	.0000.0400	Driller Drilling Method Date Started	: Lyon Drilling Co., Inc. : Geoprobe Direct Push : 2-22-01	Gd Surface Elev	pth :
2 0 - 4 5 SM Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. PT Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. PT Grey Sandy CLAY, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. No odor Boring complete at 10 ft bgs.	Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. Reddish brown PEAT, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. No odor Boring complete at 10 ft bgs.	epth feet eat	Interval	Recovery (ft)	nscs	GRAPHIC	C	DESCRIPTION		Comments
Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. PT Grey Sandy CLAY, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. PT Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. No odor Boring complete at 10 ft bgs.	Reddish brown PEAT, some Grey Clay; wet, soft, high plasticity. PT Grey Sandy CLAY, some Roots and Stems, some reddish brown Peat; moist, v soft, low to medium plasticity. Boring complete at 10 ft bgs.	1 2 3	0-4	.5	SM					No odor
Grey Sandy CLAY, some Roots and Stems, some feddish brown Peat; moist, v soft, low to medium plasticity. 9 8 - 10 2 CH No odor Boring complete at 10 ft bgs	Grey Sandy CLAY, some Roots and Stems, some feddish brown Peat; moist, v soft, low to medium plasticity. No odor Boring complete at 10 ft bgs	5 6	4-8	2	PT	P P	eddish brown PEAT, asticity.	some Grey Clay; wet, soft, high		
	11-	0.00	8-10	2	СН	6	rey Sandy CLAY, so own Peat; moist, v s	me Roots and Stems, some red oft, low to medium plasticity.		

	J 1 6-1	· · ·		IEELER				(Page 1 of 1)
PRO	DECT N	iO: 214	\$1.000Q.	k Power Corp. .0000.04000 in, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 2-22-01 : 2-22-01	Groundwater Dep Gd Surface Elev: X,Y Coordinates:	h : : :
epth feet eet	Interval	Recovery (ft)	nscs	GRAPHIC	DE	SCRIPTION		Comments
2-13-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	0-4	1.5	SM	Grey	Silty f - m SAND; we Sandy SILT, some f Silty f - m SAND, tra	·	· .	Slight odor.
9 10 11 11	8 - 10	2	SM				Boring	No odor. No odor g complete at 10 ft bgs.
12 13 14 15 15								

- O.) [E	n W	VVF	IEELEI				(Page 1 of 1)
PRO	JECT N	10: 214	11.0000	k Power Corp .0000.04000 in, New York	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 2-22-01 : 2-22-01	Gd Sur	water Depth : face Elev: : ordinates: :
epth r feet Feet	Interval	Recovery (ft)	nscs	GRAPHIC	DE	SCRIPTION		Comments
2 3	0-4	.5	ML.	Gresof	y Sandy SILT, some (Clay, trace fine Sand; wet, ve	nry	
4 5 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-8	4	SM	Gri	y Silty f - m SAND; w	et, medium density.		Slight odor.
9 10 11	8 - 10	2	The state of the s	Gr. de	ey Silty f - m SAND, so usity.	ome rounded Gravel; wet, me	edium	Boring complete at 10 ft bgs.
12-								

		_ 		, page 1 - 1			LOG OF BO	RING SED-1	1
:OS	TEF	四	WH	EELI	=K				(Page 1 of 1)
000	IF I'T NO	214	1.0000.	Power Co 0000.0400 n, New Yo	,,,	Geologist Driller Drilling Method Date Started Date Completed	: Luke Darragh : Lyon Drilling Co., Inc. : Geoprobe Direct Push : 2-22-01 : 2-22-01	Groundwater Dept Gd Surface Elev: X,Y Coordinates:	h : : :
Cepth n feet Feet	Interval	Recovery (ft)	nscs	GRAPHIC		DES	SCRIPTION		Comments
0 1 2 3 4 5 6 7	0-4	3	ML		Sand;	wet, soft.	mall rounded Gravel, trace		Slight odor.
9-1	8 - 10	1			Grey dens	Silty f - m SAND, so	ome rounded Gravel; wet, п	nedium Bori	No odor ng complete at 10 ft bgs.
11- 12- 13- 14- 15-									
15-									

	3.5	-	
10/12/04 10/12/04 Not Applicable Unit/Occyth	(A.) (A.) (A.) (A.) (A.) (A.) (A.) (A.)	Sample ILN-TISED01-(1.5- L 2.0) collected.	
DATE STARTED: DATE COMPLETED: GROUNDWATER DEPTH (FT): GROUND ELEVATION (FT): X COORDINATE: Y COORDINATE: DATUM:	Clayery Sil.T, trace c Sand, wet 8:15 19/12/04	SILT, and Clay, trace f-c Gravel, moist	
PROJECT: Ijion (East Street) - Niagara Mohawk NJECT NO.: 2907.0003.0002.00000 CCATION: Ijion, NY EPTH (FT): 2 EQLOGIST: Donald Campbell DRILLER: Nothragie S.METHOD: Geoprobe	Consolt USCS (* Deolsgic School We'n Classification or Malerial Will Brown Brown	ML 0.2-2.0°.	
PRC TOTAL D GI GI	7. End 8. Over 1.8 (freezy, 1.8) 0.2 1.8	2 2	Boring ferminated at 2 feet below swale bottom
BORING NUMBER: Tt-SED-01 TETRA TECH FW.INC. DRILLING	Sample Days Tr.SED-01-0-2	0.3	NOTES: Bo

	10/12/04 10/12/04 Not Applicable Mukinown	Fibiring Contracts (A. H. U.) Sight acrid petroleum odor. U Trace sheen on water in sample. Sample ILN- TISED02-(1.5-2.0)	
	DATE STARTED: DATE COMPLETED: GROUNDWATER DEPTH (FT): GROUND ELEVATION (FT): X COORDINATE: Y COORDINATE: DATUM:	Tial DATE	
BORING LOG SHEET	- Niagara A	USCS Geologic Color Description Classification or Mile Color Color Color Material SM Drown Well Brown Well Grey With occasional m-f Sand Grey laminations, well	The second secon
	PROJECT: PROJECT NO: LOCATION: TOTAL DEPTH (FT): GEOLOGIST: DRILLER: MG/SAMPLING METHOD:	lari End BLOWS Racovery causell US point Deptity BLOWS Racovery causel Service of the Service of	
	BORING NUMBER: Tt-SED-02 TETRA TECH FW.INC.	Sample Start E Sample Depth De Or Or Or Or Or Or Or O	

			7	5	
	10/12/04 10/12/04 Not Applicable	(perg) Sample ILN-TISED03-(0.0-2.0) collected.		Acrid petroleum odor along entire length and organic decay odor. Sample ILN- TISED03-(1.5-2.0) collected.	
	DATE STARTED: TE COMPLETED: TER DEPTH (FT): ELEVATION (FT): X COORDINATE: Y COORDINATE: P COORDINATE: DATUM:	DATE F			
	DATE STARTED: DATE COMPLETED: OUNDWATER DEPTH (FT): GROUND ELEVATION (FT): X COORDINATE: Y COORDINATE: DATUM	7. MARE			
		Description Description	Dark Grey 10.1-1.0': Sil.T, little Gravel, little Organic Material	1.0-2.0; SILT, some Clay, trace Roots, soft	
THE POST SHIPE	XX.	Folke	Dark Grey	Grey	
Ca	t Street) - Niagara I 3.0002.00000 ampbell e	USCS Georgic Spirition or Intercoda shoraken or Intercoda Multi	3	W	
	1			-	É
	PROJECT: PROJECT NO: VY, INC. TOTAL DEPTH (FT) GEOLOGIST: DRILLING/SAMPLING METHOD:				Boring terminated at 2 feet below swale bottom.
	PRI TOTAL C G	S 5-			est below
	D-03	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			ated at 2 h
	Tr-SE	2 33 5	-	^Q	ng termina
	NUMBER: Tt-SED-03 TETRATECH FW, INC.	Tage o	1.0	-	Born
	BORING NUMBER: Tt-SED-03 TETRATECH FW, INC	Sanche 10			NOTES:

	W			BORING	BORING LOG SHEET	ET					
PODING ALIMBED. TE.SED.05	PLSED-05		PROJECT: Upo (Fast Street) - Niegara Mohawk	Niscara Mohawk				DATES	DATE STARTED:	10/12/04	
SORING ROMBER.		a	PRO IECT NO 2907.0003.0002.00000	000				DATE COMPLETED:	(PLETED:	10/12/04	. <u></u>
TETTO TETTO IN INC. INC.			LOCATION: Ilion, NY				GROUNE	GROUNDWATER DEPTH (FT):	PTH (FT):	Not Applicable	
1		TOTAL DEPTH (FT); GEOLOGIST:	c 2 : Donald Campbell				10 mg	GROUND ELEVATION (F1). X COORDINATE:	X COORDINATE:		
	DRILLIN	DRILLER:	t: Nothnagle): Geoproba					000 ≻	Y COOKDINATE: DATUM:	UNIGODAN	
Sample Depth (feet)	End BLOWS Recovery (seq.)		Copposite USCS Castle In Soul	Colouis Colo	36€####################################	Destriction SiLT, and Clay, with trace white flat a elongate c Sand to Gravel-sized Ash	Sill T, and Clay, with trace white flat and elongate c Sand to Gravel-sized Ash Matenal	10:05	DATE 10/12/04	(ppm) Sample ILN-TISED06-(1.5-2.0) and sample ILN-TISED06-(1.5-2.0) and sample ILN-TISED06-(1.0-2.0) collected	(G) (S) (S)
NOTES: Boring	terminated at	Boring terminated at 2 feet below swale bottom.	ı,	A STEP	à						