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V00444 - Beacon Salvage Property

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# SUMMARY REPORT

# OF

# REMEDIAL ACTIVITIES

Performed on the "Beacon Salvage" Property

Located at

Red Flynn Drive
City of Beacon
Dutchess County, New York

Voluntary Cleanup Site: V00444-3

ESI File: SB2096.40

October 23, 2002

Prepared By:

ECOSYSTEMS STRATEGIES, INC.
24 DAVIS AVENUE
POUGHKEEPSIE, NEW YORK 12603
(845) 452-1658

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**Prepared By:**

**Ecosystems Strategies, Inc.**
**24 Davis Avenue**
**Poughkeepsie, New York 12603**

**Prepared For:**

**Scenic Hudson Land Trust, Inc.**
**One Civic Center Plaza**
**Poughkeepsie, New York 12601**

The undersigned has reviewed this Report and certifies to Scenic Hudson Land Trust, Inc. that the information provided in this document is accurate as of the date of issuance by this office.

Any and all questions or comments, including requests for additional information, should be submitted to the undersigned.

I certify that the Remedial Action Workplan was implemented and that all construction activities were completed substantially in accordance with the Department-approved Remedial Action Workplan and were personally witnessed by a person under my direct supervision

Paul H. Ciminello
President

Jefferson Akins
Professional Engineer

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# 1.0 INTRODUCTION

## 1.1 Purpose

This Summary Report of Remedial Activities (Report) summarizes all fieldwork performed by Ecosystems Strategies, Inc. (ESI) and its subcontractors from May to September 2002 on the "Beacon Salvage" property located at Red Flynn Drive in the City of Beacon, Dutchess County, New York. The work summarized in this Report was performed to address the presence of on-site PCB contaminated soils identified by ESI during subsurface investigations of the property in 200 and 2001.

The specific purpose of this Report is to satisfy the requirements set forth in the Voluntary Cleanup Program according to the protocols of an Interim Remedial Model and document all remedial activities performed on a specified portion of the subject property. Remedial activities were deemed necessary based upon information obtained from prior fieldwork, which revealed the presence of PCB contamination at concentrations ranging from 0.53 to 17 mg/kg (parts per million, ppm) in soils at the eastern end of the property. Remedial activities are summarized in Section 2.1 of this Report. This Report describes all soil excavation, field work methodology, and soil sampling procedures; includes discussions of the resulting analytical data from collected soil samples; and provides conclusions and recommendations drawn from the field work and analytical data.

## 1.2 Limitations

This written analysis is a summary of fieldwork activities conducted on a specified portion of the Beacon Salvage property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established New York State Department of Environmental Conservation (NYSDEC) protocols. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties but as probabilities based on professional judgment.

## 1.3 Site Location and Description

The Beacon Salvage property is an approximately 4.2-acre parcel having 170 feet of frontage on the westernmost end of Red Flynn Drive. This property extends approximately 1,100 feet westwards from Red Flynn Drive and includes lands located under the waters of the Hudson River, which adjoins the property to the west. The Site is comprised of a single tax lot (City of Beacon Tax Identification: 30-5954-32-48835). A map depicting the location of the subject property is provided in Appendix A of this Report.

The subject property is an elongated, irregularly-shaped lot, occupied by a house located in the central portion of the property and a barn located on the central northeastern portion of the property. Located to the east of the on-site barn structure is an area which has historically been used for the storage and processing of scrap metal.

Observations made by this office indicate that the eastern portion of the property is relatively level, while the western portion of the property has a gentle downward slope to the west, toward the Hudson River. Reported surface elevations range from approximately 5 to 10 feet above mean sea-level. The westernmost portion of the property is located beneath the surface of the Hudson River.

The specified portion of the property on which the remediation was conducted (hereafter referred to as the "Site") consists of a rectangular-shaped area located approximately 50 feet east of the barn structure and measuring approximately 80 feet by 100 feet. A Field Work Map indicating specific site characteristics and sampling locations is located in Appendix A of this Report.

## 1.4 Previous Environmental Investigations

Previous environmental investigations of the subject property have documented the presence of polychlorinated biphenyls (PCBs) and metals in on-site soils. In June 2000, ESI collected samples from 12 locations in the eastern portion of the property, including three "burn areas" where burning of wire was believed to have occurred. These samples were collected from depths ranging from the surface to five feet below surface grade. In August 2000, ESI collected additional surface and subsurface soil samples from the vicinity of the previously identified "burn areas" for analysis of PCBs. In October 2000, samples obtained from two on-site monitoring wells were analyzed for PCBs. Supplemental surface soil sampling for both PCBs and RCRA metals was performed throughout the property in August 2001 and a sample from a third on-site monitoring well was also collected for analysis of RCRA metals. Additional surface soil sampling and analysis for arsenic and lead was conducted by ESI in October 2001 on the western portion of the property. In February 2002, additional groundwater samples were collected by ESI for analysis of RCRA metals, PCBs, VOCs, and SVOCs. Observations made during the extension of soil cores and monitoring wells indicated the presence of on-site fill materials composed of ash, slag and coal.

Soil data from June and August 2000 and August 2001 documented the presence of elevated levels of PCBs in surface soils located almost exclusively in the vicinity of the "burn areas". Peak PCB concentrations were detected at 17.72 ppm. One surface soil sample (SS-2) collected to the west of the barn was found to have somewhat elevated PCBs. Analysis of subsurface soil samples did not indicate the presence of elevated levels of PCBs above action levels in soils at depths greater than three feet below surface grade. Groundwater samples collected in October 2000 from two on-site groundwater-monitoring wells identified as RD-7 and RD-9 documented the absence of PCBs in groundwater.

Laboratory analysis of the soil samples for RCRA metals in June 2000 indicated the presence of elevated concentrations of arsenic, selenium, and lead. Sampling conducted in August 2001 throughout the property likewise documented the presence of elevated arsenic and lead; however, selenium was either not detected or significantly below the action level in all eight samples. The October 2001 soil-sampling round found that soils on the western portion of the property exhibited elevated concentrations of lead and arsenic above action levels.

These cumulative data support the conclusion that elevated metal concentrations are present throughout the property, in both surface and subsurface soils. In ESI's opinion, the likely source of these elevated metals is on-site fill materials. TCLP analyses conducted in June 2000 indicate that on-site soils can be managed as non-hazardous waste. Additionally, laboratory analysis of a groundwater sample obtained from monitoring well RD-7 in August 2001 found no detectable concentrations of any dissolved RCRA metals (with the exception of Barium which was present at a concentration below the New York State Department of Health drinking water standard).

In February 2002, six temporary well points (TMW-1 through TMW-6) were installed on the property to provide additional information regarding groundwater quality. Samples were obtained from wells TMW-2, TMW-3, TMW-4, and TME-6 (two wells, TMW-1 and TMW-5, had insufficient recharge and were not sampled). No detectable concentrations of VOCs, SVOCs, or PCBs were found in these samples and no metals were detected with the exception of barium, which was present at concentrations significantly below the NYSDEC groundwater protection standard.

Based on all investigative work conducted by ESI prior to remedial activity, the following environmental conditions are known to exist on the Site:

- Groundwater has not been impacted with respect to VOCs, SVOCs, PCBs or RCRA metals.

- Surface soils on the eastern portion of the Site are known to contain concentrations of PCBs above NYSDEC action levels, possibly attributable to activities related to the usage of the Site as scrap metal processing area. Borings extended on the Site documented the presence of PCB-contaminated surface soils in this area of the property (see Proposed Remediation Field Work Map, Appendix A). In total, an estimated footprint of between 5,000 – 8,000 square feet in the scrap metal processing area of the property is likely to contain elevated levels of PCBs at concentrations above NYSDEC action levels and will therefore require remediation.

- Additional on-site soils (including subsurface soils) contain concentrations of PCBs, which are below NYSDEC action levels and are, therefore, not the subject of this Remedial Report. No remedial work is warranted for these areas based on current analytical data, and no such work is recommended.

- Surface and subsurface soils in the eastern portion of the Site and in the far western portion of the Site are known to contain concentrations of metals (arsenic and lead primarily) above NYSDEC action levels. The approximate boundaries of on-site areas with elevated lead are provided in the Proposed Remediation Field Work Map (Appendix A). The source of this contamination is believed to be the fill historically used to create the property and possibly the use of the property as a scrap metal processing area. In total, it is estimated that approximately 80,000 square feet of the subject property (excluding the 5,000 - 8,000 square feet in the PCB-contaminated area) will require remediation (see Proposed Remediation Field Work Map, Appendix A).

# 2.0 Field Work

## 2.1 Summary of Services

ESI conducted the following remedial activities on the site which were identified and approved in the voluntary Cleanup Agreement Workplan:

- The excavation of a total of approximately 400 tons of PCB contaminated soil from the former scrap/burn areas identified at the east end of the property;
- The off-site disposal of excavated PCB contaminated soils;
- The collection and analysis of endpoint post-excavation confirmatory soil samples;
- The installation of three (3) permanent groundwater monitoring wells in the vicinity of the excavated "burn" areas;
- The collection and analysis of groundwater samples from these wells; and
- The restoration of the excavated area to approximate former grade

## 2.2 Excavation of PCB-Contaminated Soil

### 2.2.1 Site Preparation Services

Prior to the initiation of fieldwork, a request for a complete utility markout of the subject property was submitted by ESI, as required by New York State Department of Labor. Confirmation of underground utility locations was secured, and a field check of the utility markout was conducted prior to excavation and removal of soil.

### 2.2.2 Excavation Methodology and Observations

S.J. Lore Contracting Inc. conducted the soil excavation under the supervision of ESI personnel. All excavation was completed utilizing a front-end loader and backhoe. An assessment of subsurface soil characteristics, including soil type, the presence of foreign materials, field indications of contamination, and instrument indications of contamination (i.e., photo-ionization detector (PID) readings), was made by ESI personnel during the soil excavation. ESI personnel maintained field logs documenting the physical characteristics of the encountered soil, PID readings, and any field indications of contamination for all encountered material.

The approximate excavation area was located at the east end of the property approximately 50-feet east of the barn structure. The final excavated area measured approximately 80-feet wide by 100-feet long and was approximately 3-feet deep. Excavated material encountered in the excavation consisted mostly of dark brown to black ash, slag and coal with a small volume of soil.

Based on field observations and previous laboratory data, excavated soils were stockpiled on, and covered with, 6-mil plastic sheeting at a designated on-site location pending off-site removal. Approximately 400-tons of soil were removed and stockpiled.

Two rounds of excavation occurred at the site as a result of test data confirming the continued presence of levels of PCB's in soil above NYSDEC action levels.

On August 2, and September 16, 2002 a total of approximately 400 tons of stockpiled material consisting mostly of slag, ash, coal, and soil material were removed from the site by Allied Waste Services and delivered to Clean Earth of Philadelphia (SRP) for proper disposal. Soil disposal manifests are included as Appendix C of this Report.

### 2.2.3 Sample Collection

After completion of the excavation described above, a grid-sampling plan was established and multiple confirmatory subsurface soil samples were collected from the excavation. All soil samples were collected in a manner consistent with NYSDEC sample collection protocols. Decontaminated stainless steel trowels and dedicated gloves were used at each sample location to place the material into sterile laboratory jars. All sample collection equipment was properly decontaminated prior to the initiation of sampling and between sample locations to avoid cross-contamination.

Twenty-one (21) soil samples were collected from the grid, in order from PESS-1 to PESS-21. All samples were collected from a depth of approximately two to three feet below surface grade.

After sample collection, the sample containers were placed in a cooler prior to transport to the laboratory. The soil samples were transported via courier to York Analytical Laboratories, Inc. (NELAP Certification Number 10854) for chemical analyses. Appropriate chain of custody procedures were followed.

## 2.3 Laboratory Analysis

### 2.3.1 Terminology

The term "action level" as defined in this Report, refers to the concentration of a particular contaminant above which remedial actions are considered more likely. The overall objective of setting action levels is to assess the integrity of on-site soils relative to conditions which are likely to present a threat to public health, given the existing and probable future uses of the site. On-site soils with contaminant levels exceeding these action levels are considered more likely to warrant remediation. No independent risk assessment was performed as part of this investigation.

The action levels identified in this Report for PCBs in soils are determined based on the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) dated January 24, 1994, as modified by subsequent, relevant NYSDEC Records of Decision (ROD).

All data have been analyzed in accordance with applicable TAGM standards. All detected compounds with their respective action levels are provided below in the data summary table. The laboratory data results are included as Appendix B of this Report.

### 2.3.2 Results

Twenty-one (21) soil samples (PESS-1 through PESS-21) were submitted to the laboratory to be analyzed for PCBs utilizing USEPA Method 8082. Laboratory analytical results are provided below in Table 1.

Laboratory analysis of excavation endpoint soil samples indicate the absence of PCBs in three (3) of the twenty-one (21) soil samples analyzed (PESS-2, PESS-14 and PESS-21). Fourteen (14) soil samples exhibited levels of total PCBs (0.02 ppm to 0.87 ppm) below NYSDEC action levels for both surface soils (1 ppm) and subsurface soils (10 ppm). Three (3) soil samples exhibited levels of total PCBs (1.34 ppm to 2.67 ppm) at concentrations above the NYSDEC action level for surface soils but below the action level for subsurface soils (PESS-4, PESS-7 and PESS-8). Soil sample PESS-12 exhibited 39.1 ppm total PCBs, exceeding the NYSDEC action level for both surface and subsurface soils.

**Table 1: Summary of PCBs in Soil Samples**
(All results provided in μg/kg. Results in **bold** exceed designated action levels.)

| Compound (USEPA Method 8082) | Action Level[1] | Sample Identification | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | October 23, 2002 | | | | | | | | | | | | | | | | | | | | |
| | | PESS -1 | PESS -2 | PESS -3 | PESS -4 | PESS -5 | PESS -6 | PESS -7 | PESS -8 | PESS -9 | PESS -10 | PESS -11 | PESS -12 | PESS -13 | PESS -14 | PESS -15 | PESS -16 | PESS -17 | PESS -18 | PESS -19 | PESS -20 | PESS -21 |
| PCB-1016 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | 120 | **1810** | 450 | 160 | 210 | 390 | 230 | 220 | 400 | **2970** | 330 | ND | 100 | 70 | 170 | 110 | 190 | 60 | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | 60 | ND | 180 | 870 | 170 | 150 | 780 | **1650** | 270 | 160 | 250 | **6000** | 210 | ND | 110 | 70 | 50 | 100 | 110 | 40 | ND |
| PCB-1260 | 1,000 | ND | ND | 130 | 440 | 230 | 180 | 350 | 630 | 270 | 210 | 340 | **3400** | 330 | ND | 150 | 80 | 30 | 160 | 170 | 50 | ND |
| Total PCBs | | 60 | ND | 430 | **3120** | 850 | 490 | **1340** | **2670** | 770 | 590 | 990 | **39100** | 870 | ND | 360 | 220 | 250 | 370 | 470 | 150 | ND |

Notes:
1. Source: NYSDEC Division Technical and Administrative Guidance Memorandum on Determination of Soil Cleanup Objectives and Cleanup Levels dated January 24, 1994, as modified by subsequent, relevant NYSDEC Records of Decision (RODs).

ND = Not Detected above specified detection limit.

### 2.3.3 Additional Soil Excavation

**Table 2: Summary of PCBs in Soil Samples- Additional excavation**
(All results provided in μg/kg. Results in **bold** exceed designated action levels.)

| Compound (USEPA Method 8082) | Action Level[1] | 2PESS-4N | 2PESS-4S | 2PESS-7N | 2PESS-7S | 2PESS-8N | 2PESS-8S | 2PESS-12N | 2PESS-12S |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 10,000 | 820 | 20 | 70 | ND | 470 | ND | 220 | 300 |
| PCB-1221 | 10,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 10,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 10,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 10,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 10,000 | 570 | ND | 110 | 70 | 2000 | 2710 | 360 | 730 |
| PCB-1260 | 10,000 | 290 | ND | 90 | ND | 470 | ND | 270 | 350 |
| **Total PCBs** | | 1680 | 20 | 270 | 70 | 2940 | 2710 | 850 | 1380 |

An additional soil excavation was conducted on September 16, 2002 to remove remaining PCB concentrations. Endpoint samples were obtained to insure that PCB levels in remaining soils were below NYSDEC action levels for subsurface soils (10 ppm). Two samples were collected from each of the four locations of additional excavation and labeled 2PESS-4N, 2PESS-4S, 2PESS-7N, 2PESS-7S, 2PESS-8N, 2PESS-8S, 2PESS-12N and 2PESS-12S respectively. All soil samples exhibited concentrations of total PCBs below NYSDEC action levels for subsurface soils (10 ppm). PCB Concentrations for this round of sampling ranged from 0.02 ppm to 2.94 ppm.

### 2.3.4 Stockpile analysis

Two composite samples of stockpiled materials (PE Stock Comp 1 and PE Stock Comp 2) were collected and analyzed for BTEX volatiles, PCBs, TCLP metals, total RCRA metals, flashpoint, pH, reactivity, total organic halogens (TOX) and total petroleum hydrocarbons (TPH), as was required by the soil repository. Based on the concentrations of detected compounds from samples obtained from the stockpiled soils, the material was deemed acceptable for disposal at Clean Earth of Philadelphia soil repository. The laboratory data results are included as Appendix B of this Report.

### 2.3.5 Site Restoration Activities

On October 1, 2002 ESI personnel directed the restoration activities in the eastern portion of the site. Activities included the importing of approximately 300 tons of "clean fill" material from the West Hook Gravel Mine (DEC Permit Number: 3-1330-52). Fill material was distributed and back bladed evenly throughout the excavation until the approximate original grade was achieved. At the conclusion of soil restoration activity, the site was seeded and mulched with straw to encourage the growth of stabilizing grasses for erosion control.

### 2.3.6 Monitoring Well Installation And Sampling

On September 5, 2002 ESI personnel directed the installation of three monitoring wells (see attached fieldwork map for locations) on the site by Site Environmental, LLC (see well installation logs, Appendix D, for well specifications). The three wells were installed in the vicinity of the

former "burn area" and west of the barn structure to provide a profile of groundwater conditions. The three wells provide a permanent replacement for temporary well points TMW-1, TMW-2 and TMW-3 lost or damaged during site remediation activities. The three wells (labeled PMW-1, PMW-2 and PMW-3) are two-inch diameter, "stick-up" type PVC wells set at approximately 12 to 13 feet in depth.

Samples from these wells were collected on September 16, 2002 utilizing USEPA Protocols for "low-flow" sampling. Samples obtained from all wells were analyzed for total PCBs (utilizing USEPA method 8080) and total RCRA metals. Samples from PMW-1 and PMW-2 were also analyzed for VOCs (utilizing USEPA method 8021) based on the presence of an observable sheen on purge water obtained from these wells.

No VOCs were detected in either groundwater sample obtained from PMW-1 or PMW-2. No PCBs were detected in the groundwater samples. Samples from all wells exhibited concentrations of metals including arsenic, barium, chromium, lead and selenium. Two of the unfiltered water samples (PMW-1 and PMW-2) exhibited NYSDEC action level exceedances for arsenic, lead and selenium (see data table 2, below). The filtered sample from PMW-2 exhibited concentrations of arsenic in exceedance of NYSDEC action levels.

**Table 3: Summary of RCRA Metals in Groundwater from September 16, 2002 Sampling**
All data provided in $\mu$g/L or ppb. Concentrations in **bold** exceed NYSDEC established action levels.

| Metals | Action Levels [1] | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | PMW-1 (filtered) | PMW-1 (unfiltered) | PMW-2 (filtered) | PMW-2 (unfiltered) | PMW-3 (filtered) | PW-3 (unfiltered) |
| Arsenic | 25 | ND | ND | **71** | **564** | ND | ND |
| Barium | 1,000 | 92 | ND | 84 | 232 | 138 | 153 |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND |
| Chromium | 50 | ND | 5 | ND | 9 | ND | 6 |
| Lead | 15 | ND | **185** | ND | **27** | ND | 10 |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | **12** | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND |
| **Organics** | | | | | | | |
| PCB's | 10,000 | ND | ND | ND | ND | ND | ND |
| VOC's | NA | ND | ND | ND | ND | ND | ND |

Notes:
1. Source: NYSDEC Water Quality Regulations, Surface Water and Groundwater Classifications and Standards 6 NYCRR Parts 700 – 706

ND = Not detected above specified laboratory detection limit.

# 3.0 CONCLUSIONS AND RECOMMENDATIONS

This office has completed the services summarized in Section 2.0 for the specified portion of the "Beacon Salvage" property located at Red Flynn Drive in the City of Beacon, Dutchess County, New York. All work was completed in coordination with NYSDEC personnel and consistent with the Remedial Action Workplan prepared by ESI and approved by the NYSDEC (Voluntary Clean-up Site: V00444-3).

Field work was completed in July – October, 2002, wherein PCB contaminated soil saw excavated, stockpiled and disposed of at a licensed repository; confirmatory samples were collected and analyzed; groundwater monitor wells were installed, developed and sampled; and a final summary report was prepared.

Based on the services provided and data generated, the following conclusions and recommendations **(in bold)** have been made.

1. Soil samples collected from within the boundary of the excavation indicate that the "hot spot" of PCB contamination has been removed from the Site. Confirmatory sampling of remaining soils (for both the initial and follow-up soil removal) indicates all levels of PCBs below established action levels for subsurface soils (10 ppm). At the conclusion of remedial activities (soil removal), a volume of soil from a NYSDEC licensed facility was imported to the site and distributed at the site of excavation to restore the area to former grade and condition. The area was seeded for erosion control.

   **No further investigation or remedial action is recommended for this portion of the site.**

2. Groundwater samples were obtained from the three permanent monitoring wells installed in eastern portion of the site. Groundwater samples were submitted for analysis of PCBs and RCRA metals. Samples from PMW-1 and PMW-2 were additionally analyzed for VOCs due to field observations of a petroleum-like sheen on the purge water from the wells. Laboratory analysis of the groundwater samples indicate the absence of VOCs and PCBs from the samples. Groundwater samples collected from PMW-1 exhibit a NYSDEC action level exceedance for lead in the unfiltered sample. Groundwater samples collected from PMW-2 exhibit NYSDEC action level exceedances for arsenic in both the filtered and unfiltered sample. Groundwater samples from PMW-2 also exhibit an exceedance for selenium. The low levels of metals detected in groundwater samples do not pose a threat to the proposed future utility of the site. Municipal water is available for site use and it is anticipated that groundwater resources will not be utilized.

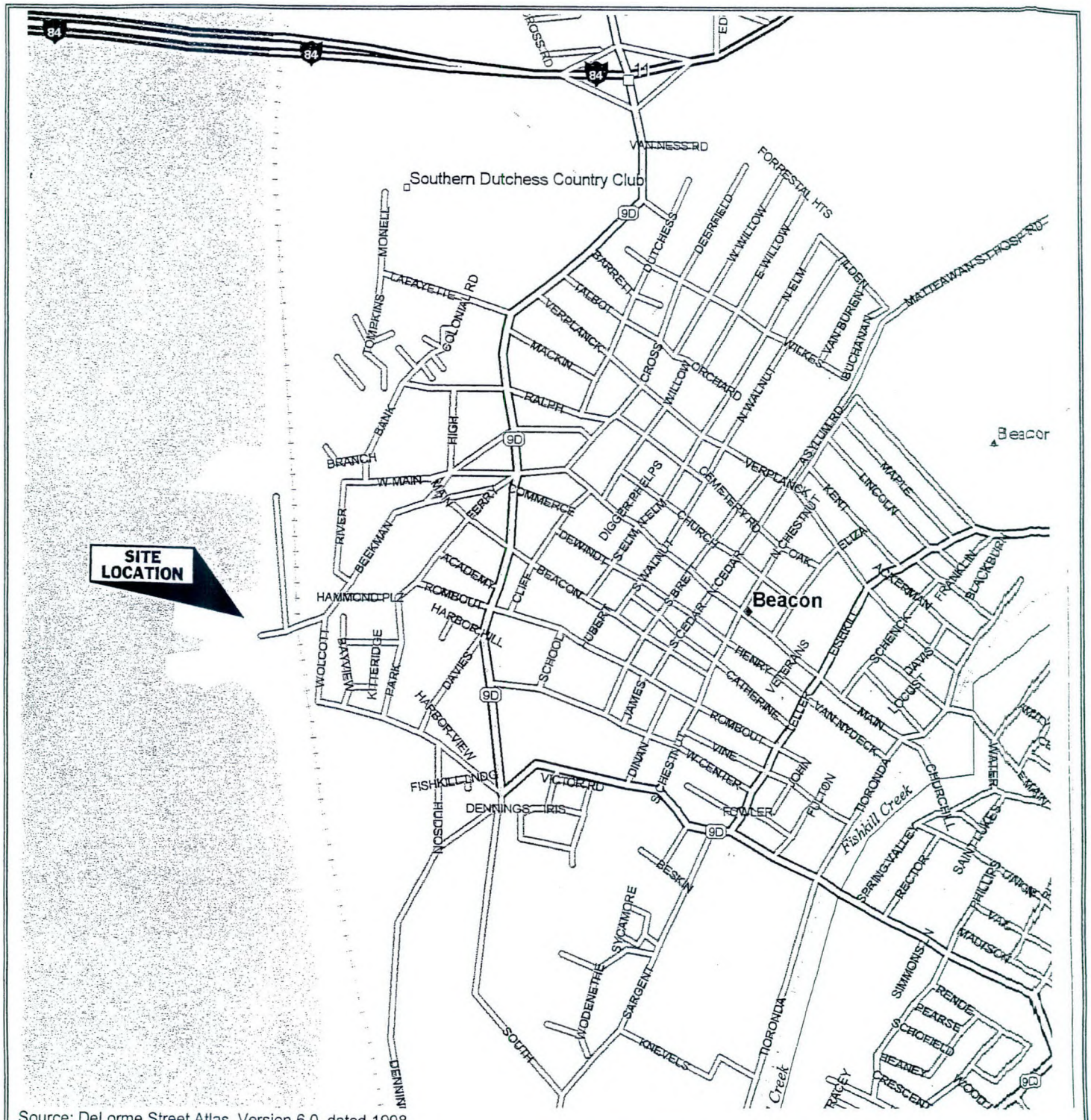
   **No further investigation recommended.**

3. The remedial activities described in this Report satisfy all tasks included in the approved Workplan.

   **It is recommended that this Report be submitted to the NYSDEC for review in anticipation of a no further action letter.**

# APPENDIX A

## Maps




Source: DeLorme Street Atlas, Version 6.0, dated 1998

## Site Location Map

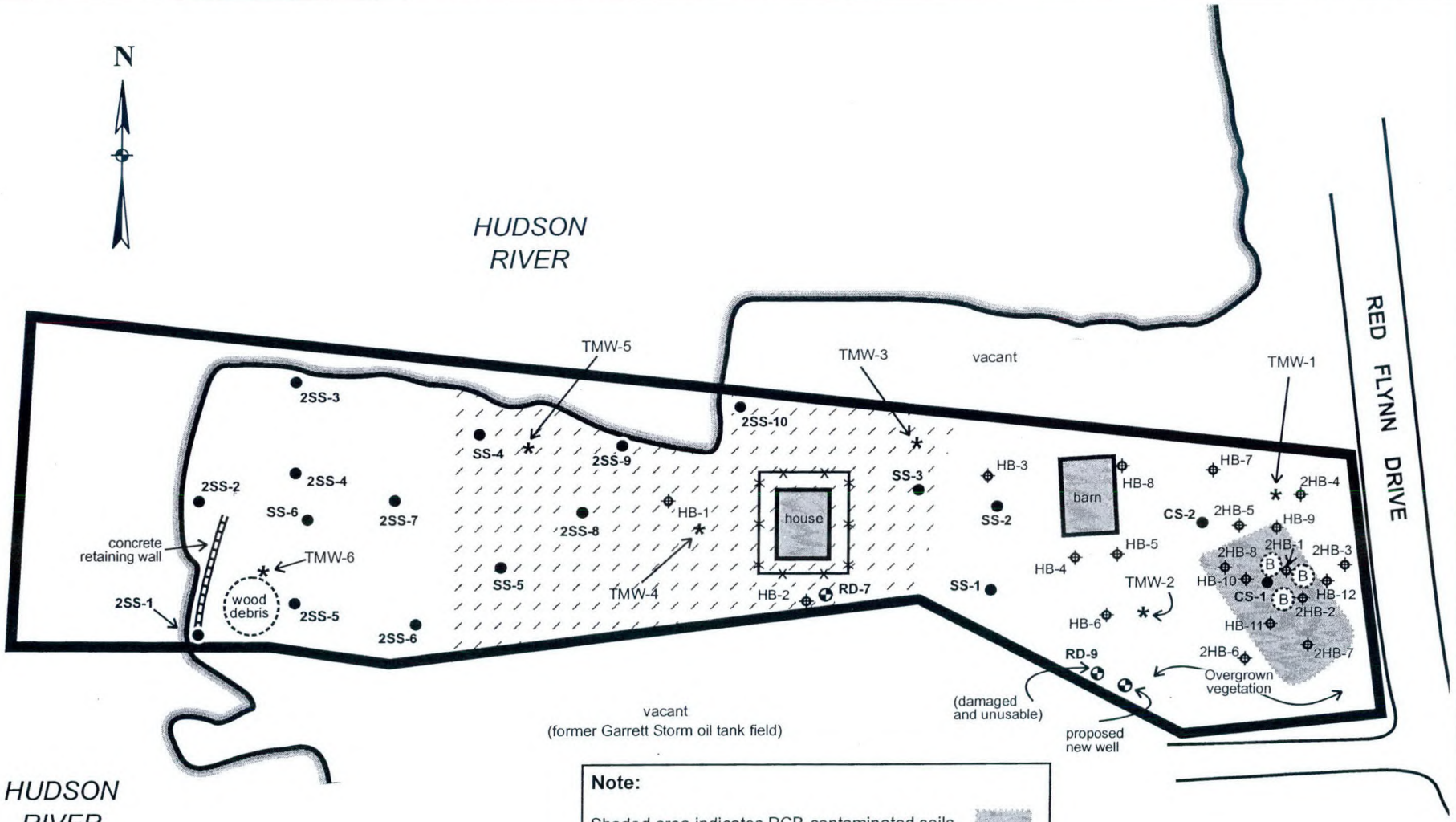
"Beacon Salvage" Property
Red Flynn Drive
City of Beacon
Dutchess County, New York

N

ESI File: SB2096.40

Date: October 2002

Appendix A




**Note:**

Shaded area indicates PCB-contaminated soils proposed for excavation.

Entire subject property to receive an 18 inch clean fill barrier layer, except hatched portion where total lead levels are less than 400 ppm and no cap is proposed.

Feature locations are approximate.

## Proposed Remediation Field Work Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:

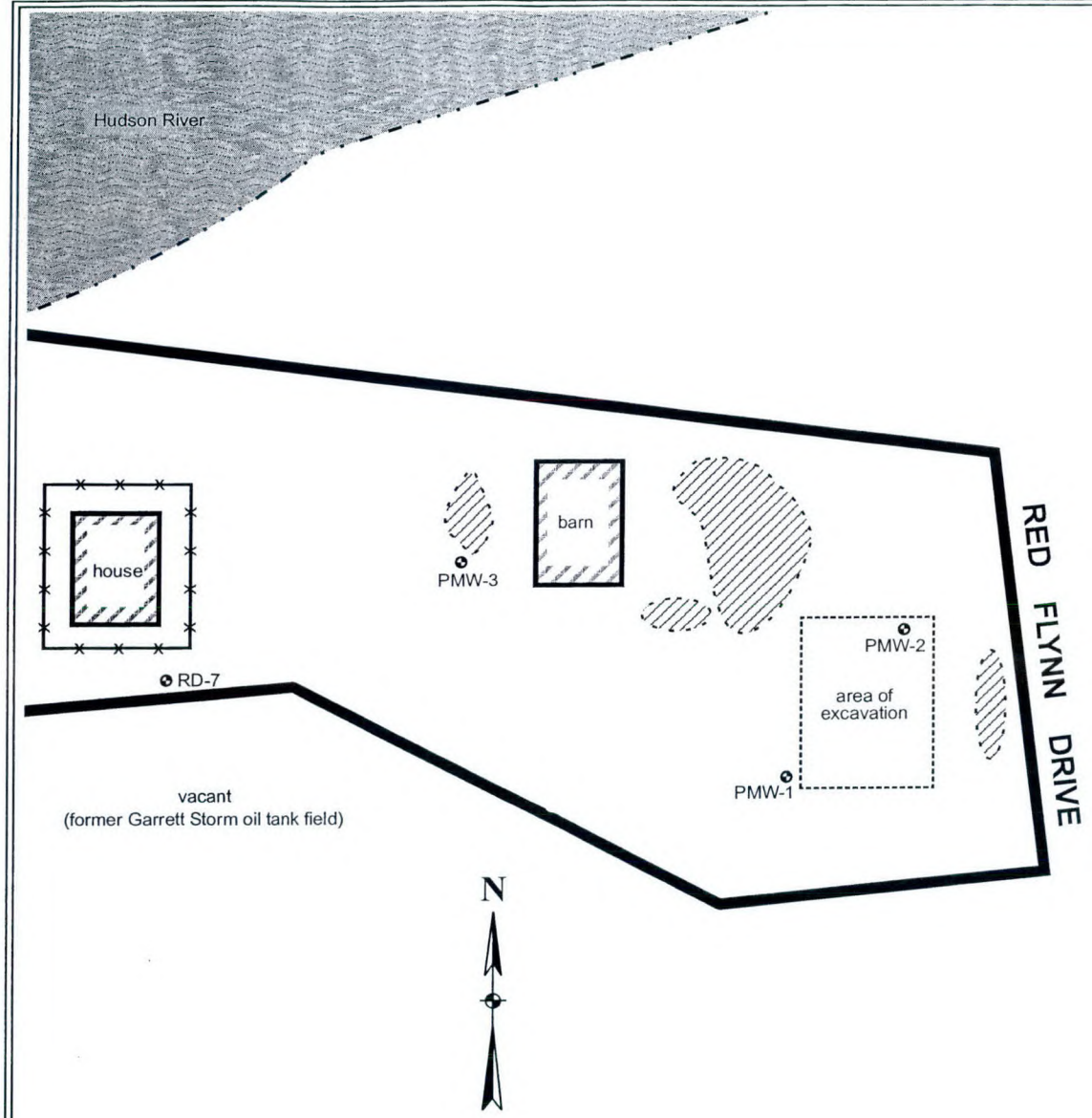
- subject property border
- former hand boring location/samples taken 6/30/00 HB-2
- former hand boring location/samples taken 8/15/00 2HB-2
- surface soil SS-1
- monitoring well RD-1
- composite sample CS-1
- Burn spot (B)
- Temporary groundwater sampling point *

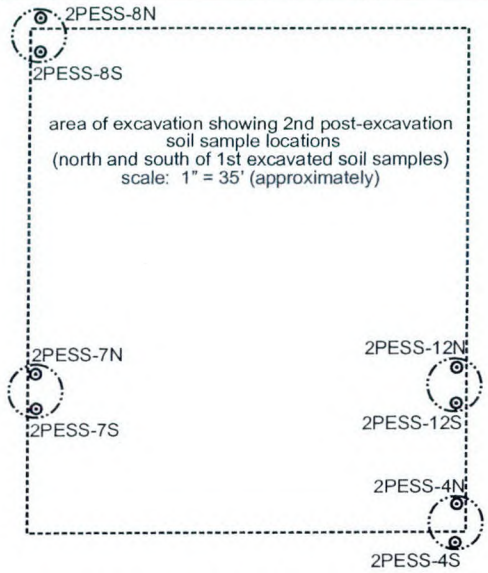
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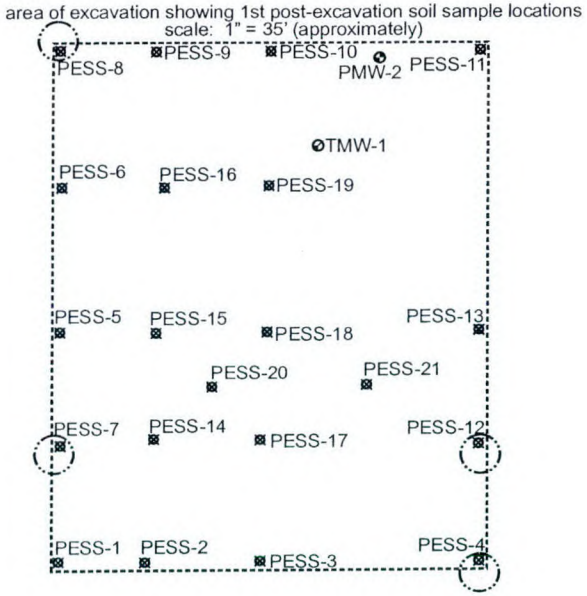
February 2002

Scale: 1" = 100' (approximately)

Appendix A




Feature locations are approximate.

# Field Work Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:

- subject property border
- chain-link fence
- structure
- PCB soil stockpile
- monitoring well (RD-7) & (PMW)
- temporary monitoring well (TMW)
- 1st post-excavation soil sample locations (PESS)
- 2nd post-excavation soil sample locations (2PESS)

ESI File: SB2096.40

October 2002

Scale: 1" = 100' (approximateley)

Appendix A

# APPENDIX B

## Laboratory Results

YORK
ANALYTICAL LABORATORIES, INC.

RECEIVED
JUL 17 2002

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**24 Davis Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 7/15/2002
***Re: Client Project ID: SB2096.40***
York Project No.: 02070262

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 7/15/2002
Client Project ID: SB2096.40
York Project No.: 02070262

**Ecosystems Strategies, Inc.**
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/10/02. The project was identifed as your project "SB2096.40 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | PESS-1 | | PESS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-01 | | 02070262-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.06 | 0.02 | Not detected | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.06 | 0.02 | Not detected | 0.02 |

| Client Sample ID | | | PESS-3 | | PESS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-03 | | 02070262-04 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.10 |

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| Client Sample ID | | | PESS-3 | | PESS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-03 | | 02070262-04 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1242 | | | 0.12 | 0.02 | 1.81 | 0.10 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1254 | | | 0.18 | 0.02 | 0.87 | 0.10 |
| PCB 1260 | | | 0.13 | 0.02 | 0.44 | 0.10 |
| PCB, Total | | | 0.43 | 0.02 | 3.12 | 0.10 |

| Client Sample ID | | | PESS-5 | | PESS-6 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-05 | | 02070262-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.45 | 0.02 | 0.16 | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.17 | 0.02 | 0.15 | 0.02 |
| PCB 1260 | | | 0.23 | 0.02 | 0.18 | 0.02 |
| PCB, Total | | | 0.85 | 0.02 | 0.49 | 0.02 |

| Client Sample ID | | | PESS-7 | | PESS-8 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-07 | | 02070262-08 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1242 | | | 0.21 | 0.02 | 0.39 | 0.10 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.10 |
| PCB 1254 | | | 0.78 | 0.02 | 1.65 | 0.10 |
| PCB 1260 | | | 0.35 | 0.02 | 0.63 | 0.10 |
| PCB, Total | | | 1.34 | 0.02 | 2.67 | 0.10 |

| Client Sample ID | | | PESS-9 | | PESS-10 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-09 | | 02070262-10 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.23 | 0.02 | 0.22 | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.27 | 0.02 | 0.16 | 0.02 |

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| Client Sample ID | | | PESS-9 | | PESS-10 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-09 | | 02070262-10 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB 1260 | | | 0.27 | 0.02 | 0.21 | 0.02 |
| PCB, Total | | | 0.77 | 0.02 | 0.59 | 0.02 |

| Client Sample ID | | | PESS-11 | | PESS-12 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-11 | | 02070262-12 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 1.0 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 1.0 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 1.0 |
| PCB 1242 | | | 0.40 | 0.02 | 29.7 | 1.0 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 1.0 |
| PCB 1254 | | | 0.25 | 0.02 | 6.0 | 1.0 |
| PCB 1260 | | | 0.34 | 0.02 | 3.4 | 1.0 |
| PCB, Total | | | 0.99 | 0.02 | 39.1 | 1.0 |

| Client Sample ID | | | PESS-13 | | PESS-14 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-13 | | 02070262-14 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.33 | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.21 | 0.02 | Not detected | 0.02 |
| PCB 1260 | | | 0.33 | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.87 | 0.02 | Not detected | 0.02 |

| Client Sample ID | | | PESS-15 | | PESS-16 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-15 | | 02070262-16 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.10 | 0.02 | 0.07 | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.11 | 0.02 | 0.07 | 0.02 |
| PCB 1260 | | | 0.15 | 0.02 | 0.08 | 0.02 |
| PCB, Total | | | 0.36 | 0.02 | 0.22 | 0.02 |

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| Client Sample ID | | | PESS-17 | | PESS-18 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-17 | | 02070262-18 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.17 | 0.02 | 0.11 | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.05 | 0.02 | 0.10 | 0.02 |
| PCB 1260 | | | 0.03 | 0.02 | 0.16 | 0.02 |
| PCB, Total | | | 0.25 | 0.02 | 0.37 | 0.02 |

| Client Sample ID | | | PESS-19 | | PESS-20 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070262-19 | | 02070262-20 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | 0.19 | 0.02 | 0.06 | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.11 | 0.02 | 0.04 | 0.02 |
| PCB 1260 | | | 0.17 | 0.02 | 0.05 | 0.02 |
| PCB, Total | | | 0.47 | 0.02 | 0.15 | 0.02 |

| Client Sample ID | | | PESS-21 | |
|---|---|---|---|---|
| York Sample ID | | | 02070262-21 | |
| Matrix | | | SOIL | |
| Parameter | Method | Units | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- |
| PCB 1016 | | | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 |
| PCB 1254 | | | Not detected | 0.02 |
| PCB 1260 | | | Not detected | 0.02 |
| PCB, Total | | | Not detected | 0.02 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

**Notes for York Project No. 02070262**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:** Robert Q. Bradley
Managing Director

**Date:** 7/15/2002

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE REBEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

02010262 Page 1 of 3

# Field Chain-of-Custody Record

| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.40 | Jonathan Kaplan / PHC<br>Jonathan A. Kaplan |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| PESS-1 | | 7/9/02 | | X | | | PCBs | 8 oz |
| PESS-2 | | ↓ | | X | | | ↓ | ↓ |
| PESS-3 | | | | X | | | | |
| PESS-4 | | | | X | | | | |
| PESS-5 | | | | X | | | | |
| PESS-6 | | | | X | | | | |
| PESS-7 | | | | X | | | | |
| PESS-8 | | | | X | | | | |
| PESS-9 | | | | X | | | | |
| PESS-10 | | ↓ | | X | | | ↓ | |

**Chain-of-Custody Record**

| | Date/Time |
|---|---|
| Bottles Relinquished from Lab by | |
| Bottles Received in Field by | |
| Sample Relinquished by | 7/10/02 |
| Sample Relinquished by | |
| Sample Received by: Wayne | 7/10 215 |
| Sample Received in LAB by: J. Gale | 7-10-02/1545 |

Comments/Special Instructions: 4, 9°C

Turn-Around Time: ___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

02070262

# Field Chain-of-Custody Record



| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.40 | Jonathan Kaplan / Jonathan A. Kaplan |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| PESS-11 | | 7/9/02 | | X | | | PCBs | 8 oz. |
| PESS-12 | | | | | | | | |
| PESS-13 | | | | | | | | |
| PESS-14 | | | | | | | | |
| PESS-15 | | | | | | | | |
| PESS-16 | | | | | | | | |
| PESS-17 | | | | | | | | |
| PESS-18 | | | | | | | | |
| PESS-19 | | | | | | | | |
| PESS-20 | | | | | | | | |

*Chain-of-Custody Record*

| | | | |
|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | 7/10/02 Date/Time |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time |
| Wayne | 7/10 215 | Sample Received by | Date/Time |
| J. Gale | 7-10-02/1545 | Sample Received in LAB by | Date/Time |

*Comments/Special Instructions*

***Turn-Around Time***

___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.
ONE REBEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record

| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.40 | Jonathan Kaplan / Jonathan A. Kaplan |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| PESS-21 | | 7/9/02 | | X | | | PCBs | 8 oz |
| PESS-22 | | ↓ | | ↓ | | | ↓ | ↓ |
| PESS-23 | | | | | | | | |
| PESS-24 | | | | | | | | |

| Chain-of-Custody Record | | | | | |
|---|---|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | 7/10/02 Date/Time | Sample Received by | 7/10 215 Date/Time |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time | Sample Received in LAB by | 7-10-02/1545 Date/Time |

Comments/Special Instructions

Turn-Around Time: ___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**24 Davis Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 7/24/2002
***Re: Client Project ID: SB2096.41***
York Project No.: 02070366

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166



07/24/2002 15:44 2033251571 YORK ANALYTICAL LABS PAGE 02

Report Date: 7/24/2002
Client Project ID: SB2096.41
York Project No.: 02070366

**Ecosystems Strategies, Inc.**
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/15/02. The project was identifed as your project "SB2096.41 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | PE Stock Comp 1 | | PE Stock Comp 2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070366-01 | | 02070366-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-BTEX soil | SW846-8260 | ug/Kg | --- | --- | --- | --- |
| Benzene | | | | | Not detected | 5.0 |
| Ethylbenzene | | | | | Not detected | 5.0 |
| o-Xylene | | | | | Not detected | 5.0 |
| p- & m-Xylenes | | | | | Not detected | 5.0 |
| Toluene | | | | | Not detected | 5.0 |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | | | 0.15 | 0.02 |
| PCB 1221 | | | | | Not detected | 0.02 |
| PCB 1232 | | | | | Not detected | 0.02 |
| PCB 1242 | | | | | Not detected | 0.02 |
| PCB 1248 | | | | | Not detected | 0.02 |
| PCB 1254 | | | | | 0.46 | 0.02 |
| PCB 1260 | | | | | 0.17 | 0.02 |
| PCB, Total | | | | | 0.78 | 0.02 |
| TCLP RCRA Metals | SW846-1311/6010 | mg/L | --- | --- | --- | --- |
| TCLP Arsenic | | | | | Not detected | 0.010 |

YORK



07/24/2002 15:44 2033251371 YORK ANALYTICAL LABS PAGE 03

| Client Sample ID | | | PE Stock Comp 1 | | PE Stock Comp 2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070366-01 | | 02070366-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| TCLP Barium | | | | | 1.45 | 0.010 |
| TCLP Cadmium | | | | | 0.017 | 0.005 |
| TCLP Chromium | | | | | 0.005 | 0.005 |
| TCLP Lead | | | | | 0.379 | 0.005 |
| TCLP Selenium | | | | | Not detected | 0.010 |
| TCLP Silver | | | | | Not detected | 0.005 |
| TCLP Copper | SW846-6010 | mg/L | --- | --- | 0.099 | 0.005 |
| TCLP Nickel | SW846-6010 | mg/L | --- | --- | 0.043 | 0.005 |
| TCLP Zinc | SW846-6010 | mg/L | --- | --- | 4.07 | 0.005 |
| TCLP Mercury | SW846-7470 | mg/L | --- | --- | Not detected | 0.0005 |
| **Total RCRA Metals** | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | | | 29.6 | 1.00 |
| Barium, total | | | | | 146 | 0.50 |
| Cadmium, total | | | | | 1.97 | 0.50 |
| Chromium, total | | | | | 11.6 | 0.50 |
| Lead, total | | | | | 508 | 0.50 |
| Selenium, total | | | | | 2.26 | 1.00 |
| Silver, total | | | | | Not detected | 0.50 |
| Mercury | SW846-7471 | mg/kG | --- | --- | 0.62 | 0.10 |
| Reactivity-Cyanide | SW846 7.3 | mg/kg | --- | --- | Not detected | 0.25 |
| Flash Point | EPA 1010M | Degrees F | --- | --- | >200 | --- |
| pH | EPA 150.1 | units | --- | --- | 7.66 | --- |
| Reactivity-Sulfide | SW846 7.3 | mg/kg | --- | --- | 171 | 15 |
| Total Organics Halogens (TOX) | EPA SW846 | ppm | Not detected | 1.0 | Not detected | 1.0 |
| Total Petroleum Hydrocarbons-DRO | SW846-8015B | mg/kg | 301 | 10.9 | 337 | 11.0 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

## Notes for York Project No. 02070366

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that Total rganics Halogens (TOX) analyses reported herein were subcontracted to EAS Laboratories, Watertown, CT.

**Approved By:** _____ **Date:** 7/24/2002

Robert Q. Bradley
Managing Director

**YORK**



07/24/2002 15:44 2033251371 YORK ANALYTICAL LABS PAGE 04

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

0207036Ø6.

# Field Chain-of-Custody Record



| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.41 | Jonathan A. Kaplan / J.T. |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| | P.E. STOCK COMP | 7-11-02 | | X | | | TPH 8015<br>TOX | 4-8oz JARS |
| | | | | | | | | |
| | | | | | | | | |
| | P.E. STOCK COMP | 7-11-02 | | X | | | TPH 8015 / TOX / FLASHPOINT / PH / REACTIVITY / TCLP 8 METALS + COPPER, NICKEL, ZINC, TOTAL METALS, PCB's, BTEX | X |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**Chain-of-Custody Record**

| | | | | | |
|---|---|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | 7.12.02 10:32 Date/Time | R. Van Deusen Sample Received by | 7/12/02 10:31 Date/Time |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time | J. Gil Sample Received in LAB by | 7-12-02/1430 Date/Time |

*Comments/Special Instructions* 4,8°C

*Turn-Around Time*
Standard X RUSH(define) AS PER P.C.

07/24/2002 15:44 2033251371 YORK ANALYTICAL LABS

YORK
ANALYTICAL LABORATORIES, INC.

RECEIVED
AUG 16 2002

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**24 Davis Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 8/14/2002
***Re: Client Project ID: SB2096.40***
York Project No.: 02080110

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ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/14/2002
Client Project ID: SB2096.40
York Project No.: 02080110

**Ecosystems Strategies, Inc.**
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/05/02. The project was identifed as your project "SB2096.40 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | 2PESS-4 S | | 2PESS-4 N | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02080110-01 | | 02080110-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.02 | 0.02 | 0.82 | 0.04 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.04 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.04 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.04 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.04 |
| PCB 1254 | | | Not detected | 0.02 | 0.57 | 0.04 |
| PCB 1260 | | | Not detected | 0.02 | 0.29 | 0.04 |
| PCB, Total | | | 0.02 | 0.02 | 1.68 | 0.04 |

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| Client Sample ID | | | 2PESS-7 S | | 2PESS-7 N | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02080110-03 | | 02080110-04 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | 0.07 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.07 | 0.02 | 0.11 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | 0.09 | 0.02 |
| PCB, Total | | | 0.07 | 0.02 | 0.27 | 0.02 |

| Client Sample ID | | | 2PESS-8 S | | 2PESS-8 N | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02080110-05 | | 02080110-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.20 | 0.47 | 0.20 |
| PCB 1221 | | | Not detected | 0.20 | Not detected | 0.20 |
| PCB 1232 | | | Not detected | 0.20 | Not detected | 0.20 |
| PCB 1242 | | | Not detected | 0.20 | Not detected | 0.20 |
| PCB 1248 | | | Not detected | 0.20 | Not detected | 0.20 |
| PCB 1254 | | | 2.71 | 0.20 | 2.00 | 0.20 |
| PCB 1260 | | | Not detected | 0.20 | 0.47 | 0.20 |
| PCB, Total | | | 2.71 | 0.20 | 2.94 | 0.20 |

| Client Sample ID | | | 2PESS-12 S | | 2PESS-12 N | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02080110-07 | | 02080110-08 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.30 | 0.02 | 0.22 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.73 | 0.02 | 0.36 | 0.02 |
| PCB 1260 | | | 0.35 | 0.02 | 0.27 | 0.02 |
| PCB, Total | | | 1.38 | 0.02 | 0.85 | 0.02 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 8/14/2002
Client Project ID: SB2096.40
York Project No.: 02080110

**Notes for York Project No. 02080110**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:** Robert Q. Bradley
Robert Q. Bradley
Managing Director

**Date:** 8/14/2002

YORK

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

02080110

# Field Chain-of-Custody Record



| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.40 | Jonathan A Kaplan / Jonathan A. Kaplan |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| | 2PESS-4 S | Fri 8/2/02 | | X | | | PCB's | 1-8oz |
| | 2PESS-4 N | | | | | | | |
| | 2PESS-7 S | | | | | | | |
| | 2PESS-7 N | | | | | | | |
| | 2PESS-8 S | | | | | | | |
| | 2PESS-8 N | | | | | | | |
| | 2PESS-12 S | | | | | | | |
| | 2PESS-12 N | " | | X | | | X | " |
| | | | | | | | | |
| | | | | | | | | |

| Chain-of-Custody Record | | | |
|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | JK 8/5/02 10:15A Sample Relinquished by | Date/Time |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time |

R. Van Deusen — Sample Received by — 8/5/02 10:15 Date/Time

Sample Received in LAB by — 8/5 1:30PM Date/Time

Comments/Special Instructions

Turn-Around Time: X Standard ___ RUSH(define) 4 hr

# YORK
ANALYTICAL LABORATORIES, INC.

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**24 Davis Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 9/30/2002
***Re: Client Project ID: SB2096.40***
York Project No.: 02090496

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166



09/30/2002 14:58 2033251371 YORK ANALYTICAL LABS PAGE 02

Report Date: 9/30/2002
Client Project ID: SB2096.40
York Project No.: 02090496

**Ecosystems Strategies, Inc.**
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/17/02. The project was identifed as your project "SB2096.40 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | PMW-1 | | PMW-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-01 | | 02090496-02 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8021 list water | SW846-8260 | ug/L | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,1-Trichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,2-Trichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloroethylene | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| 1,2,3-Trichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2,3-Trichloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,2,4-Trichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2,4-Trimethylbenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dibromoethane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichloropropane | | | Not detected | 1 | Not detected | 1 |

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| Client Sample ID | | | PMW-1 | | PMW-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-01 | | 02090496-02 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 1,2-Dichlorothylene (Total) | | | Not detected | 1 | Not detected | 1 |
| 1,3,5-Trimethylbenzene | | | Not detected | 1 | Not detected | 1 |
| 1,3-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,3-Dichloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,4-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 2,2-Dichloropropane | | | Not detected | 1 | Not detected | 1 |
| 2-Chlorotoluene | | | Not detected | 1 | Not detected | 1 |
| 4-Chlorotoluene | | | Not detected | 1 | Not detected | 1 |
| Benzene | | | Not detected | 1 | Not detected | 1 |
| Bromobenzene | | | Not detected | 1 | Not detected | 1 |
| Bromochloromethane | | | Not detected | 1 | Not detected | 1 |
| Bromodichloromethane | | | Not detected | 1 | Not detected | 1 |
| Bromoform | | | Not detected | 1 | Not detected | 1 |
| Bromomethane | | | Not detected | 1 | Not detected | 1 |
| Carbon tetrachloride | | | Not detected | 1 | Not detected | 1 |
| Chlorobenzene | | | Not detected | 1 | Not detected | 1 |
| Chloroethane | | | Not detected | 1 | Not detected | 1 |
| Chloroform | | | Not detected | 1 | Not detected | 1 |
| Chloromethane | | | Not detected | 1 | Not detected | 1 |
| cis-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| Dibromochloromethane | | | Not detected | 1 | Not detected | 1 |
| Dibromomethane | | | Not detected | 1 | Not detected | 1 |
| Dichlorodifluoromethane | | | Not detected | 1 | Not detected | 1 |
| Ethylbenzene | | | Not detected | 1 | Not detected | 1 |
| Hexachlorobutadiene | | | Not detected | 1 | Not detected | 1 |
| Isopropylbenzene | | | Not detected | 1 | Not detected | 1 |
| Methylene chloride | | | Not detected | 1 | Not detected | 1 |
| Naphthalene | | | Not detected | 1 | Not detected | 1 |
| n-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| n-Propylbenzene | | | Not detected | 1 | Not detected | 1 |
| o-Xylene | | | Not detected | 1 | Not detected | 1 |
| p- & m-Xylenes | | | Not detected | 1 | Not detected | 1 |
| p-Isopropyltoluene | | | Not detected | 1 | Not detected | 1 |
| sec-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| Styrene | | | Not detected | 1 | Not detected | 1 |
| tert-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| Tetrachloroethylene | | | Not detected | 1 | Not detected | 1 |
| Toluene | | | Not detected | 1 | Not detected | 1 |
| trans-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| Trichloroethylene | | | Not detected | 1 | Not detected | 1 |
| Trichlorofluoromethane | | | Not detected | 1 | Not detected | 1 |
| Vinyl chloride | | | Not detected | 1 | Not detected | 1 |

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| Client Sample ID | | | PMW-1 Filtered | | PMW-1 Unfiltered | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-03 | | 02090496-04 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3510C/8082 | ug/L | --- | --- | --- | --- |
| PCB 1016 | | | | | Not detected | 0.2 |
| PCB 1221 | | | | | Not detected | 0.2 |
| PCB 1232 | | | | | Not detected | 0.2 |
| PCB 1242 | | | | | Not detected | 0.2 |
| PCB 1248 | | | | | Not detected | 0.2 |
| PCB 1254 | | | | | Not detected | 0.2 |
| PCB 1260 | | | | | Not detected | 0.2 |
| PCB, Total | | | | | Not detected | 0.2 |
| Total RCRA Metals | SW846-6010B | mg/L | --- | --- | --- | --- |
| Arsenic, total | | | | | Not detected | 0.010 |
| Barium, total | | | | | 0.109 | 0.005 |
| Cadmium, total | | | | | Not detected | 0.005 |
| Chromium, total | | | | | 0.005 | 0.005 |
| Lead, total | | | | | 0.185 | 0.005 |
| Selenium, total | | | | | Not detected | 0.010 |
| Silver, total | | | | | Not detected | 0.005 |
| Mercury | SW846-7470 | mg/L | --- | --- | Not detected | 0.0002 |
| Dissolved RCRA Metals | SW846 | mg/L | --- | --- | --- | --- |
| Arsenic, dissolved | | | Not detected | 0.010 | | |
| Barium, dissolved | | | 0.092 | 0.005 | | |
| Cadmium, dissolved | | | Not detected | 0.005 | | |
| Chromium, dissolved | | | Not detected | 0.005 | | |
| Lead, dissolved | | | Not detected | 0.005 | | |
| Selenium, dissolved | | | Not detected | 0.010 | | |
| Silver, dissolved | | | Not detected | 0.005 | | |
| Mercury, Dissolved | SW-846-7470 | mg/L | Not detected | 0.0002 | --- | --- |

| Client Sample ID | | | PMW-2 Filtered | | PMW-2 Unfiltered | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-05 | | 02090496-06 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3510C/8082 | ug/L | --- | --- | --- | --- |
| PCB 1016 | | | | | Not detected | 0.2 |
| PCB 1221 | | | | | Not detected | 0.2 |
| PCB 1232 | | | | | Not detected | 0.2 |
| PCB 1242 | | | | | Not detected | 0.2 |
| PCB 1248 | | | | | Not detected | 0.2 |
| PCB 1254 | | | | | Not detected | 0.2 |
| PCB 1260 | | | | | Not detected | 0.2 |
| PCB, Total | | | | | Not detected | 0.2 |
| Total RCRA Metals | SW846-6010B | mg/L | --- | --- | --- | --- |
| Arsenic, total | | | | | 0.564 | 0.010 |
| Barium, total | | | | | 0.232 | 0.005 |
| Cadmium, total | | | | | Not detected | 0.005 |
| Chromium, total | | | | | 0.009 | 0.005 |
| Lead, total | | | | | 0.027 | 0.005 |
| Selenium, total | | | | | 0.012 | 0.010 |

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| Client Sample ID | | | PMW-2 Filtered | | PMW-2 Unfiltered | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-05 | | 02090496-06 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Silver, total | | | | | Not detected | 0.005 |
| Mercury | SW846-7470 | mg/L | --- | --- | Not detected | 0.0002 |
| **Dissolved RCRA Metals** | SW846 | mg/L | --- | --- | --- | --- |
| Arsenic, dissolved | | | 0.071 | 0.010 | | |
| Barium, dissolved | | | 0.145 | 0.005 | | |
| Cadmium, dissolved | | | Not detected | 0.005 | | |
| Chromium, dissolved | | | Not detected | 0.005 | | |
| Lead, dissolved | | | Not detected | 0.005 | | |
| Selenium, dissolved | | | 0.012 | 0.010 | | |
| Silver, dissolved | | | Not detected | 0.005 | | |
| Mercury, Dissolved | SW-846-7470 | mg/L | Not detected | 0.0002 | --- | --- |

| Client Sample ID | | | PMW-3 Filtered | | PMW-3 Unfiltered | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02090496-07 | | 02090496-08 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| **PCB** | SW846-3510C/8082 | ug/L | --- | --- | --- | --- |
| PCB 1016 | | | | | Not detected | 0.2 |
| PCB 1221 | | | | | Not detected | 0.2 |
| PCB 1232 | | | | | Not detected | 0.2 |
| PCB 1242 | | | | | Not detected | 0.2 |
| PCB 1248 | | | | | Not detected | 0.2 |
| PCB 1254 | | | | | Not detected | 0.2 |
| PCB 1260 | | | | | Not detected | 0.2 |
| PCB, Total | | | | | Not detected | 0.2 |
| **Total RCRA Metals** | SW846-6010B | mg/L | --- | --- | --- | --- |
| Arsenic, total | | | | | Not detected | 0.010 |
| Barium, total | | | | | 0.153 | 0.005 |
| Cadmium, total | | | | | Not detected | 0.005 |
| Chromium, total | | | | | 0.006 | 0.005 |
| Lead, total | | | | | 0.010 | 0.005 |
| Selenium, total | | | | | Not detected | 0.010 |
| Silver, total | | | | | Not detected | 0.005 |
| Mercury | SW846-7470 | mg/L | --- | --- | Not detected | 0.0002 |
| **Dissolved RCRA Metals** | SW846 | mg/L | --- | --- | --- | --- |
| Arsenic, dissolved | | | Not detected | 0.010 | | |
| Barium, dissolved | | | 0.138 | 0.005 | | |
| Cadmium, dissolved | | | Not detected | 0.005 | | |
| Chromium, dissolved | | | Not detected | 0.005 | | |
| Lead, dissolved | | | Not detected | 0.005 | | |
| Selenium, dissolved | | | Not detected | 0.010 | | |
| Silver, dissolved | | | Not detected | 0.005 | | |
| Mercury, Dissolved | SW-846-7470 | mg/L | Not detected | 0.0002 | --- | --- |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

**YORK**



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Report Date: 9/30/2002
Client Project ID: SB2096.40
York Project No.: 02090496

**Notes for York Project No. 02090496**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:** Robert Q. Bradley
Managing Director

**Date:** 9/30/2002

YORK



09/30/2002 14:58 2033251371 YORK ANALYTICAL LABS PAGE 07

PAGE 08
YORK ANALYTICAL LABS
09/30/2002 14:58 2033251371

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record

02090496



| Company Name | Report To: | Invoice To: | Project ID/No. | |
|---|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB2096.40 | J.K. Samples Collected By (Signature) Jonathan A. Kaplan Name (Printed) |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| | PMW-1 | 9/16/02 | X | | | | HOLD | [redacted] |
| | PMW-2 | | | | | | | |
| | PMW-3 | | | | | | | |
| | PMW-1 Filtered | | | | | | | 1 1L Amber Jars |
| | PMW-2 Filtered | | | | | | | |
| | PMW-3 Filtered | | | | | | | |
| | PMW-1 Unfiltered | | | | | | | |
| | PMW-2 Unfiltered | | | | | | | |
| | PMW-3 Unfiltered | | | | | | | |
| | | | | | | | | |

*Chain-of-Custody Record*

| | | | |
|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | 9/17/02 12:45 Date/Time |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time |
| R. Van Deusen | 9/17/02 12:45 | | |
| Sample Received by | Date/Time | | |
| | | Sample Received in LAB by | Date/Time |

*Comments/Special Instructions*

*Turn-Around Time*

___Standard ___RUSH(define)_____

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

0209104PW

# Field Chain-of-Custody Record





| Company Name | Report To: | Invoice To: | Project ID/No. |
|---|---|---|---|
| Ecosystems Strategies | Jonathan A. Kaplan | PAM | SB208.40 |

Samples Collected By (Signature): Jonathan A Kaplan
Name (Printed): Jonathan A. Kaplan

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| | PMW-1 | 9/16/02 | X | | | | 8021 | 40 ML VIAL |
| | PMW-2 | | | | | | ↓ | ↓ |
| | PMW-1 FILTERED | | | | | | RCRA METALS | AMBER LITRE |
| | PMW-1 UNFILTERED | | | | | | (8080 PCB'S) RCRA METALS | |
| | PMW-2 FILTERED | | | | | | RCRA METALS | |
| | PMW-2 UNFILTERED | | | | | | (8080 PCB'S) RCRA METALS | |
| | PMW-3 FILTERED | | | | | | RCRA METALS | |
| | PMW-3 UNFILTERED | ↓ | ↓ | | | | (8080 PCB'S) RCRA METALS | ↓ |
| | | | | | | | | |
| | | | | | | | | |

*Chain-of-Custody Record*

| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | Date/Time | Sample Received by | Date/Time |
|---|---|---|---|---|---|
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time | Sample Received in LAB by | Date/Time |

*Comments/Special Instructions*

*Turn-Around Time*
✓ Standard ___ RUSH(define)___

# APPENDIX C

## Waste Disposal Manifests

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name: Scenic Hudson, Inc
Address: 1 Civivc Center PlazaSte2000
Beacon, NY
Phone No.:

Shipping Location: Beacon Salvage YD
Address: Ferry Street
Beacon, NY
Phone No.:

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| | Non Haz Petroleum Contaminated Soil Destined For Recycling | | 35.72 | 12.54 | 23.18 | 23.18 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

JOHN A RIPORTI AGENT FOR SCENIC HUDSON — 8.2.02

Generator Authorized Agent Name — Signature — Shipment Date

### TRANSPORTER

Transporter Name: G. Fusella Trucking
Address: P.O. Box 544
East Hanover, NJ
State Permit #: NJ-579

Driver Name (Print): JOHN A. RIPORTI JR.
Vehicle License No./State: AE829F / NJ
Truck Number: FUS 731

I hereby certify that the above named material was picked up at the generator site listed above.

John A. Riporti Jr. 8.2.02

Driver Signature — Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

John A. Riporti 8.02.02

Driver Signature — Delivery Date

### DESTINATION

Site Name: Clean Earth Of Phila
Phone No.:
Address: 3201 S. 61st Street Phila, PA
State Permit #: 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

P. KENNEY — 8/2/02

Name of Authorized Agent — Signature — Receipt Date

CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name: Scenic Hudson, Inc
Address: 1 Civic Center Plaza, Ste 200
Beacon, Ny
Phone No.:

Shipping Location: Beacon Salvage YD
Address: Ferry Street
Beacon, NY
Phone No.:

Codes

Approval Number:

Description of Material: Non Haz Petroleum Contaminated Soil Destined For Recycling

Gross Weight: 36.21
Tare Weight: 12.50
Net Weight: 23.71

Net Weight (Tons): 23.71

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

Generator Authorized Agent Name | Signature | Shipment Date: 8-2-02

### TRANSPORTER

Transporter Name: G. Fusella Trucking
Address: P.O. Box 544
East Hanover, Nj
State Permit #: NJ_579

Driver Name (Print): G. Johnson
Vehicle License No./State: AD 514 K
Truck Number: 732

I hereby certify that the above named material was picked up at the generator site listed above.

G. Johnson — 8-2-02
Driver Signature — Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

G Johnson — 8-2-02
Driver Signature — Delivery Date

### DESTINATION

Site Name: Clean Earth Of Phila
Phone No.:
Address: 3201 S.61st Street Phila, PA
State Permit #: 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

P. KENNEY — Name of Authorized Agent
Signature
8/2/02 — Receipt Date

CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name: Scenic Hudson, Inc
Address: 1 Civic Center Plaza Ste2000
Beacon, NY
Phone No.:

Shipping Location: Beacon Salvage YD
Address: Ferry Street
Beacon, NY
Phone No.:

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| | Non Haz Petroleum Contaminated Soil Destined For Recycling | | 38.27 | 12.89 | 25.38 | 25.38 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

Generator Authorized Agent Name | Signature | Shipment Date: 8/2/02

### TRANSPORTER

Transporter Name: G. Fusella Trucking
Address: P.O. Box 544
East Hanover, NJ
State Permit #: NJ-579

Driver Name (Print): willie Jones
Vehicle License No./State: A65826
Truck Number: 733

I hereby certify that the above named material was picked up at the generator site listed above.

willie 8-2-02
Driver Signature | Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

willie 8-02-02
Driver Signature | Delivery Date

### DESTINATION

Site Name: Clean Earth Of Phila
Address: 3201 S.61st Street Phila, PA
Phone No.:
State Permit #: 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

P. KENNEY
Name of Authorized Agent

Signature
CONTRACTOR

8/2/02
Receipt Date

Log Number 2710

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name Scenic Hudson Inc

Address 1 Civic Center Plaza Ste 200 Beacon NY

Phone No.

Shipping Location Beacon Solvents

Address Fifty St Beacon NY

Phone No.

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| | Non hazardous Petroleum contaminated soil destined for Recycling | | 35.17 | 12.21 | 22.96 | 22.96 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

Jonathan A Lahan - ESI as Agent for Scenic Hudson — 8/2/02

Generator Authorized Agent Name — Signature — Shipment Date

### TRANSPORTER

Transporter Name Middlesex Materials — Driver Name (Print) Jennifer Arteaga

Address 245 New Street Suite 1 — Vehicle License No./State AE 738E

Woodbridge NJ 07095 — Truck Number 720

State Permit # NJ-458

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — Delivery Date

### DESTINATION

Site Name Clean Earth of Philadelphia — Phone No.

Address 3201 S 61st Philadelphia Pa — State Permit # 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

P. Kenney — 8/2/02

Name of Authorized Agent — Signature — Receipt Date

CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name SCENIC HUDSON INC  Shipping Location BEACON SALVAGE

Address 1 CIVIC CENTER PLAZA  Address DEPOT ~~&~~ ST.

~~BEACON~~ BEACON N.Y.  BEACON N.Y.

Phone No. _____  Phone No. _____

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| 5473 | NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING | | 34.95 | 13.08 | 21.87 | 21.87 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

JONATHAN A. WARNER ESQ. / AS AGENT FOR SCENIC HUDSON  8/2/02

Generator Authorized Agent Name  Signature  Shipment Date

S.H.I. #01

### TRANSPORTER

Transporter Name THE TOP SOIL DEPOT, INC  Driver Name (Print) JOSE L CARTAGENA

Address 190 POMPTON PLAINS CROSSROADS  Vehicle License No./State AG615A N.J.

WAYNE, NJ 07470 (973) 835-9434  Truck Number #01

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature  Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature  8-2-02 Delivery Date

### DESTINATION

Site Name ~~CLEAN EARTH OF~~ Philadelphia  Phone No. _____

Address 3201 S 61st Phila. P.A.  State Permit # _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

C. David Mora  8.2.02

Name of Authorized Agent  Signature  Receipt Date

### CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name: SCENIC HUDSON INC

Address: 1 CIVIC CENTER PLAZA

BEACON N.Y.

Phone No.:

Shipping Location: BEACON SALVAGE

Address: FERRY ST.

BEACON N.Y.

Phone No.:

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| 5473 | NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING | | | | | |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

JONATHAN A KAPLAN ESI / AGENT FOR SCENIC HUDSON — 8/2/02

Generator Authorized Agent Name — Signature — Shipment Date

S.H.I. # 02

### TRANSPORTER

Transporter Name: THE TOP SOIL DEPOT, INC

Address: 190 POMPTON PLAINS CROSSROADS

WAYNE, NJ 07470 (973) 835-9434

State Permit #: NJ-561

Driver Name (Print): PERIKLES VEZOS

Vehicle License No./State: AG 707 D NJ

Truck Number: #02

I hereby certify that the above named material was picked up at the generator site listed above.

Perikles Vezos

Driver Signature — Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Perikles Vezos — 8/2/02

Driver Signature — Delivery Date

### DESTINATION

Site Name: CLEAN EARTH OF Philadelphia

Address: 3201 S 61st Phila P.A.

Phone No.:

State Permit #:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[illegible] — [illegible] — 8/2/02

Name of Authorized Agent — Signature — Receipt Date

CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name: Scenic Hudson Inc. Shipping Location: Beacon Sloop Club

Address: Civic Center Plaza Address: Fleet St.

Beacon, NY. Beacon,

Phone No. _____ Phone No. _____

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| | Non haz, petroc cont. soil, dest for recycling | | 35 49 | 12 20 | 2329 | 2329 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

X _____ 8/2/02

Generator Authorized Agent Name Signature Shipment Date

### TRANSPORTER

Transporter Name: MM INC. Driver Name (Print): Alex G.

Address: 245 Main St Vehicle License No./State: AE 160 P.

Woodbridge NJ 916

Truck Number _____

State Permit #: NJ 458

I hereby certify that the above named material was picked up at the generator site listed above.

Alex G 8-2-2002

Driver Signature Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

_____ 8-2

Driver Signature Delivery Date

### DESTINATION

Site Name: CleanEarth of Philly, Inc. (SEP) Phone No. _____

Address: 3201 S. 61st St., Philadelphia PA. State Permit # 301220.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

R. Kenney _____ 8/1/02

Name of Authorized Agent Signature Receipt Date

CONTRACTOR

Log Number

# ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

## NON-HAZARDOUS MATERIAL MANIFEST

### GENERATOR

Generator Name SCENIC HUDSON INC. Shipping Location ~~BEACON~~ SALVAGE.

Address 1 CIVIC CENTER PLAZA Address FERRY ST.

BEACON N.Y. BEACON N.Y.

Phone No. _____ Phone No. _____

| Approval Number | Description of Material | Codes | Gross Weight | Tare Weight | Net Weight | Net Weight (Tons) |
|---|---|---|---|---|---|---|
| 5473 | NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING | | 37.32 | 13.08 | 20.24 | 20.24 |

**I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.**

JONATHAN KLIPLAN/ESI AS AGENT FOR SCENIC HUDSON Jonathan Klipl 8/2/02

Generator Authorized Agent Name Signature Shipment Date

S.H.I. #03

### TRANSPORTER

Transporter Name THE TOPSOIL DEPOT, INC. Driver Name (Print) STEFANOS TSIROGIANNIS

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State NGIA2F N.J.

WAYNE, NJ 07470 (973) 835-9434 Truck Number #03

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

S. Tsirogiannis 8/2/02

Driver Signature Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

S. Tsirogiannis 8/02/02

Driver Signature Delivery Date

### DESTINATION

Site Name CLEAN EARTH OF Philadelphia Phone No. _____

Address 3201 S 61st St. Phila. PA. State Permit # _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

C. Daniel Mercer 8-2-02

Name of Authorized Agent Signature Receipt Date

TRUCKING COMPANY

# APPENDIX D

## Well Installation Logs

SITE LLC
121 Old Ansonia Road
Seymour, CT 06483
Tel. (203) 734-5880
Fax. 732-3202
www.site-llc.com

Client: Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY 12603-2332

Project: Red Flynn Drive
Beacon NY

Date: 5-Sep-02

Water: 5'-9"

SITElog® **PMW-1**

| Depth | Blows per 6" | | | | Moisture | Changes | Color | DESCRIPTION OF FINDINGS | General |
|---|---|---|---|---|---|---|---|---|---|
| 0' to 2' | 8 | 13 | 18 | 20 | Damp | 1'-0" | bl | COAL(dust), trace Metal | FILL |
| | | | | | | | bl/br | CINDERS, Slag | |
| 5' to 7' | 1 | 1 | 0 | 1 | Wet | | | | |
| | | | | | | 9'-6" | br | SAND, some Gravel, few Cobbles | OUTWASH |
| | | | | | | 13'-0" | | | |

End of Exploration @ 13'-0"

Set 2" PVC Well @ 13'-0"

Riser +2' to 3'-0"
Screen 3'-0" to 13'-0"
Sand to 2'-6"
Bentonite to 2'-0"
Cuttings to 6"
Protector Pipe/Concrete
Threaded Bottom Plug

* 3" Spoon

| No. | Pen. | Rec. |
|---|---|---|
| *1 | 24" | 23" |
| *2 | 24" | 18" |

NOTES

GPS Coor:
41°30.277N
73°59.148W

Driller Name:
J. DeAngelis, Jr.

Helper Name:
J. DeAngelis III

Drill Equip:
CME 75

Hammer Wgt:
CME 140# Auto

Sampler:
3" O.D. Lynac

Casing:
4¼" HSA

KEY
bl - black
w - white
rb - red/brown
gy - grey
tn - tan
ro - rust/orange
ob - olive/brown
og - olive/grey
d. - dark
l. - light

Fill
Organic
Silt
Clay
Sand(c)
Sand(f)
Gravel
Cobble
Till
Rock
Water
SPT
Curb Box
Riser
Bentonite
Screen

SITE LLC
121 Old Ansonia Road
Seymour, CT 06483
Tel. (203) 734-5880
Fax. 732-3202
www.site-llc.com

Client: Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY 12603-2332

Project: Red Flynn Drive
Beacon NY

Date: 5-Sep-02

Water: 3'-6"

SITElog® **PMW-2**

| Depth | Blows per 6" | Moisture | Changes | Color | DESCRIPTION OF FINDINGS | General | No. | Pen. | Rec. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| 0' to 2' | 2 1 4 3 | Dry | | bl | CINDERS, Coal, Brick fragments | FILL | *1 | 24" | 10" | |
| | | | 4'-0" | | | | | | | |
| 5' to 7' | 1 1 2 2 | Moist | | d.og | ORGANIC SILT, some Clay, trace Fibers | ORGANICS | *2 | 24" | 24" | |
| | | | 12'-0" | | | | | | | |

End of Exploration @ 12'-0"

Set 2" PVC Well @ 12'-0"

Riser +3' to 2'-0"
Screen 2'-0" to 12'-0"
Sand to 1'-8"
Bentonite to 1'-6"
Cuttings to 6"
Protector Pipe/Concrete
Threaded Bottom Plug

* 3" Spoon

GPS Coor:
41°30.280N
73°59.134W

Driller Name:
J. DeAngelis, Jr.

Helper Name:
J. DeAngelis III

Drill Equip:
CME 75

Hammer Wgt:
CME 140# Auto

Sampler:
3" O.D. Lynac

Casing:
4¼" HSA

KEY
bl - black
w - white
rb - red/brown
gy - grey
tn - tan
ro - rust/orange
ob - olive/brown
og - olive/grey
d. - dark
l. - light

Fill
Organic
Silt
Clay
Sand(c)
Sand(f)
Gravel
Cobble
Till
Rock
Water
SPT
Curb Box
Riser
Bentonite
Screen

SITE LLC
121 Old Ansonia Road
Seymour, CT 06483
Tel. (203) 734-5880
Fax. 732-3202
www.site-llc.com

Client: Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY 12603-2332

Project: Red Flynn Drive
Beacon NY

Date: 5-Sep-02

Water: 3'-9"

SITElog® **PMW-3**

| Depth | Blows per 6" | | | | Moisture | Changes | Color | DESCRIPTION OF FINDINGS | General | No. | Pen. | Rec. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0' to 2' | 3 | 4 | 5 | 3 | Damp | | d.br | SAND mixed w/Organic Silt, Cinders | FILL | *1 | 24" | 18" | |
| | | | | | | 4'-0" | | | | | | | |
| 5' to 7' | 0 | 0 | 1 | 2 | Wet | | d.br | ORGANIC SILT, some Clay, Fibers | ORGANICS | *2 | 24" | 12" | |
| | | | | | | 12'-0" | | | | | | | |

End of Exploration @ 12'-0"

Set 2" PVC Well @ 12'-0"

Riser +2' to 2'-0"
Screen 2'-0" to 12'-0"
Sand to 1'-8"
Bentonite to 1'-6"
Cuttings to 6"
Protector Pipe/Concrete
Threaded Bottom Plug

* 3" Spoon

GPS Coor:
41°30.288N
73°59.185W

Driller Name:
J. DeAngelis, Jr.

Helper Name:
J. DeAngelis III

Drill Equip:
CME 75

Hammer Wgt:
CME 140# Auto

Sampler:
3" O.D. Lynac

Casing:
4¼" HSA

KEY
bl - black
w - white
rb - red/brown
gy - grey
tn - tan
ro - rust/orange
ob - olive/brown
og - olive/grey
d. - dark
l. - light

Fill
Organic
Silt
Clay
Sand(c)
Sand(f)
Gravel
Cobble
Till
Rock
Water
SPT
Curb Box
Riser
Bentonite
Screen