

SEP 30 2004

**SITE INVESTIGATION REPORT
FOR THE
ROBERT SCHWIKER PROPERTY**

**17TH STREET
CITY OF CAMDEN
CAMDEN COUNTY, NEW JERSEY**

CASE #96-12-13-0056-34

Prepared By:
Remington and Vernick Engineers
232 Kings Highway East
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September 2004

Edward Vernick
Edward Vernick, P.E.

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I. Executive Summary

In 1998, a preliminary assessment (PA) was performed at the Robert Schwiker Property, in Camden, New Jersey. The study was performed on behalf of the City of Camden. Due to the owner's failure to pay property taxes, the City owned the tax sale receipt, which enabled it to obtain funding to perform the PA. Since then, the property was foreclosed upon and the City is the property owner.

The PA identified past uses of the site and proposed sampling to investigate areas of concern (AOC's), in accordance with N.J.A.C.7:26E. AOC's are areas that, by use of design, can cause soil and/or groundwater contamination. The NJDEP reviewed the PA and approved the proposed site investigation (SI).

Subsequent to NJDEP approval, the SI was performed. Initially a soil investigation was performed. Soil samples were collected at AOC's identified in the PA report to require additional investigation. The analytical results indicated that TPHC, VOC's, BN's, mercury, chromium and pesticides were detected above the applicable NJDEP limits in the soil.

Because the soil contamination extending into the groundwater table, a groundwater investigation was subsequently performed. VOC's were detected above the applicable NJDEP limits in groundwater.

II. Introduction

Remington and Vernick, on behalf of the City of Camden, has completed the SI on the property known as the Robert Schwiker Property, located on 17th Street (off of Admiral Wilson Boulevard), Camden, New Jersey. The PA report was previously submitted to, and approved by, the NJDEP. The following report includes a description of the SI.

The PA and SI were generated by funding provided through the New Jersey Hazardous Discharge Site Remediation Fund (H.D.S.R.F.) Municipal Grant Program. The purpose of the PA is to identify AOC's that contain hazardous substances that may have impacted soil and/or groundwater. The purpose of the SI is to investigate the AOC's identified in the PA and to determine whether hazardous substances were discharged on the property during past operations. All work performed was conducted in accordance with N.J.A.C.7:26E.

III. Soil and Groundwater Cleanup Criteria

Throughout this report, soil and groundwater cleanup criteria are referred to as "applicable NJDEP limits". The limits utilized while performing this investigation are as follows:

- A. Soil – the current most stringent NJDEP Soil Cleanup Criteria, as revised on May 12, 1999. The most stringent cleanup limits may be either the residential direct contact soil cleanup criteria or the impact to groundwater soil cleanup criteria, depending upon the compound. Please note that analytical results regarding sediment samples will be compared to the same criteria utilized for soil samples.
- B. Groundwater – the current NJDEP Class IIA Groundwater Quality Criteria.

IV. Site Characteristics

A. General Description

The subject property is a rectangular lot of approximately 1.3 acres. It is located along 17th Street (off of Admiral Wilson Boulevard) in the City of Camden. All on-site structures have been demolished and the site is currently vacant.

B. Topography

The property is generally flat, and according to the United States Geological Survey (USGS) Camden, NJ-PA Quadrangle, the site is located approximately 8' above mean sea level. Review of the same USGS Quadrangle also revealed that the Cooper River is located approximately 300' north of the Cooper River.

C. Surface Water Bodies

The Cooper River, which flows into the Delaware River, is the nearest surface water body. As noted above, the subject site is located off of (approximately 160' away from) Admiral Wilson Boulevard, which runs adjacent to the Cooper River.

D. Soil

According to the Soil Survey of Camden County, New Jersey, the site is in an urban area and was not surveyed.

E. Hydrology

Based on the surface water in the area and the site topography, the shallow groundwater below the site travels south towards the Cooper River. The groundwater is less than 11' below grade. The groundwater depth and flow direction are likely fluctuate due to seasonal influences and precipitation.

F. Geology

The subject area falls within the New Jersey inner coastal plain physiographic province. The coastal plan consists of a southeastward-dipping, seaward-thickening wedge of unconsolidated to loosely consolidated sediments. According to the USGS New Jersey Coastal Plain Mapping, the subject site is mainly underlain by the Magothy Formation. This formation makes up the upper aquifer unit of the Potomac-Raritan-Magothy Aquifer System.

G. Wetlands

The subject site and its surrounding area are mapped as Uplands in the NJDEP Freshwater Wetlands Map.

H. Surrounding Land Use

The area surrounding the property is utilized primarily for industrial and commercial uses.

V. Case History

A. Site History

According to Sanborn Maps, the original on-site building was constructed in 1877. The facility was utilized as Atlantic Bleachery and Dye Works. This company produced dyed cotton and woolen goods. The next Sanborn Map showed that the Camden Logwood Mill operated at the facility in 1884, which also produced dyed goods. Four (4) additional buildings were constructed between 1877 and 1884. Dye materials used included logwood, glauber salts, nitrate of lead, nitrate of iron and tin crystals. Coal was also used at the facility.

The 1959 tax assessment card indicated that the building located on site at that time was constructed in 1922. Therefore, the original buildings were demolished between 1877 and 1922. The building constructed in 1922 was demolished prior to the site visit conducted in May of 1997.

From 1931 until 1996, owners of the site included the South Jersey Gas Company, R.M. Hollingshead Company, P.S.E.&G. and Classic Chemical. The following information was provided by local officials familiar with the site.

1. In 1922 the building was utilized as a one-story office and storage building by Fleck Bros.

2. During the 1950's and 1960's, the facility was a public service transit garage.
3. Also, it was utilized as an MVTA training center.
4. The site was most recently used for packaging automotive/industrial chemicals into small metal and plastic containers until the factory was abandoned in 1996.

4PA (In 1996, the USEPA conducted remedial work on the property. Over 14,000 individual pint and quart sized containers of hazardous substances/waste were removed from the site. The contents of the containers consisted of waste automotive oil, gasoline, degreasing solvent, caustics, paint wastes, boiler treatment chemicals, fuel oil additives, silicone carbide and friable asbestos-containing pipe insulation.

B. Preliminary Assessment

The City was eligible to receive funding to investigate the environmental integrity of the site, through the H.D.S.R.F. Funding was approved in 1997 to conduct a PA/SI of the property. A PA was performed and submitted to the NJDEP on September 22, 1998.

The PA identified many AOC's that required additional investigation (i.e., soil sampling). The following are the AOC's identified in the PA that required additional investigation, in accordance with N.J.A.C.7:26E.

Underground Storage Tanks

Pit

Dumpster

Floor Drain

Transformer

Outside Hazardous Material Storage Area

Air Vents

Interior Hazardous Material Storage Area (including AST's, boiler rooms, and paint booth)

Groundwater (if warranted, in accordance with N.J.A.C.7:26E)

See the section below, entitled "Areas of Concern", for a detailed description of the above-listed AOC's, the proposed SI, the SI performed and results/recommendations.

VI. Areas of Concern (including general description, proposed site investigation, site investigation performed and results/recommendations)

→ A. Underground Storage Tanks

1. General Description

No records regarding the presence of underground storage tanks (UST's) on this property have been located. However, during a site visit, three (3) UST vent pipes and two (2) dispensers were observed. The dispensers appeared to be associated with gasoline or diesel fuel UST's.

2. Proposed Site Investigation

Sampling for the UST's would be conducted in accordance with N.J.A.C.7:26E.

3. Site Investigation Performed

Concurrently with performing the SI (but not funded with the H.D.S.R.F. Municipal Grant Program), the UST's were removed. The area of suspected UST's was excavated and two (2) 4,000 gallon UST's were uncovered. The UST's were cleaned, removed and disposed, in accordance with all applicable governmental regulations. Through field indicators (i.e., PID readings, odor, staining, etc.), a discharge was suspected. Approximately 130 C.Y. of soil suspected to be contaminated was removed and properly disposed off-site. The excavation extended to 7.5' below grade.

*Cable yards
12 1.5 tons*

Post-excavation soil sampling was performed by collecting two (2) soil samples from the bottom of each sidewall of the excavation (for a total of eight (8) sidewall samples). In addition, two (2) soil samples were collected from the excavation floor. All samples were biased toward locations of greatest suspected contamination (through field indicators). All ten (10) post-excavation soil samples were analyzed for TPHC, VOC's and lead.

4. Results/Recommendations

No compounds were detected above the application NJDEP limits. Therefore, no additional investigation/remediation is proposed for this AOC.

B. Pit

1. General Description

A pit was discovered during a site visit. The purpose of the pit is unknown and the lid could not be open.

2. Proposed Site Investigation

Investigating the contents and condition of the pit, using heavy equipment to remove the lid, was proposed. If material in the pit was present, a sample would be collected. The bottom of the pit would be examined for holes, cracks, etc. If the pit bottom was in good condition, no other sampling was proposed. If the bottom of the pit was in poor condition, a soil sample will be collected from 0" to 6" below the bottom of the pit. Both samples would be analyzed for TPHC and PP + 40.

3. Site Investigation Performed

On March 15, 2002, the pit area was investigated by removing the lid with a backhoe. Because no sediment (or material of any kind) was present in the pit, a sample was not collected from within the pit. Furthermore, there was no evidence that the pit was used for storage of material and there was no evidence that a discharge had occurred in this area. Therefore, no additional investigation of the pit was conducted. However, the location was sampled as part of the investigation of the interior hazardous material storage area. See that section below for the site investigation performed and results/recommendations of the sampling performed in this area.

C. Dumpster

1. General Description

During a site visit, a dumpster, on unpaved soil, was discovered. The contents of the dumpster (past and present) are unknown.

2. Proposed Site Investigation

Collecting one (1) soil sample from 0" to 6" below the dumpster was proposed. The sample would be analyzed for PP + 40 and TPHC.

3. Site Investigation Performed

This AOC was investigated on March 13, 2002. Because the sample location overlapped with the interior hazardous material storage AOC, only one soil sample was collected from this location. A test pit was performed and a soil sample was collected from the 6" interval of greatest suspected contamination (from field indicators, i.e., odor, PID readings, staining etc.) The sample was collected from 9.5' below grade and was analyzed for PP + 40 and TPHC.

4. Results/Recommendations

Chlorobenzene was detected above the applicable NJDEP limit. Because elevated levels of chlorobenzene were detected in several soil samples associated with the on-site storage of hazardous materials, it does not appear to be the result of a discharge associated specifically with the dumpster. Therefore, recommendations for this location will be discussed below, in the section entitled "Interior Hazardous Material Storage Area".

D. Floor Drain

1. General Description

A drain located outside the building was identified during the site visit.

2. Proposed Site Investigation

Identifying the discharge location of the drain by performing a dye test or excavating the drain area and piping run was proposed. Once the discharge location was known, sampling would be conducted in accordance with N.J.A.C.7:26E. All samples would be analyzed for TPHC and ¼ of the samples (those with the highest TPHC) would be analyzed for PP + 40.

3. Site Investigation Performed

As stated above, all of the on-site buildings have been demolished. By excavating this area, it appeared that the drain discharge to a pipe that ran on top of the concrete basement floor. The pipe terminated abruptly (likely caused by the demolition). Therefore, the former pipe location and discharge point could not be determined. Furthermore, the area beneath the pipe could not be

exposed for sampling due to the thickness of the concrete floor.
Hence, no sampling was conducted for this AOC.

4. Results/Recommendations

Due to site constraints, this AOC was not investigated as proposed. Although no sampling was conducted, the comprehensive soil and groundwater sampling conducted throughout the property would likely detect any discharge that resulted from floor drain. Therefore, no additional investigation/remediation is proposed specifically for this AOC.

E. Transformer

1. General Description

Two (2) transformers were identified during the site visit. Whether the transformers contained PCB's is unknown.

2. Proposed Site Investigation

Examining the area for field indicators (soil staining, PID readings, etc.) of a discharge was proposed. If no discharge indicators were present, no further investigation of this AOC would be conducted. If a discharge was indicated, the area would be sampled in accordance with N.J.A.C.7:26E. All samples collected would be analyzed for PCB's.

3. Site Investigation Performed

As previously stated, all on-site structures have been demolished. As part of the demolition, the transformers were removed. However, the former areas of the transformers were investigated, as proposed. No indicators that a discharge had occurred were present. Therefore, no soil sampling was conducted for this AOC.

4. Results/Recommendations

Because no evidence of a discharge was present, no additional investigation/remediation is proposed for this AOC.

F. Outside Hazardous Material Storage Area

1. General Description

As previously stated in this report, the USEPA removed a large amount of hazardous material from this site. One (1) area of drum storage was located during the site visit. However, whether other areas were used for drum storage is unknown. The area identified on the site visit did not appear large enough for the amount of material removed by the USEPA. Furthermore, the Sanborn maps from the 1800's show various materials stored on site. However, because these maps have no dimensions or property lines, the locations of material storage are unknown.

2. Proposed Site Investigation

The exterior portion of this property will be divided into 900 square foot grids, in accordance with N.J.A.C.7:26E. One (1) test pit would be performed within each grid. The test pit would extent to 10' below grade or to the groundwater table (whichever was encountered first). The test pit would be field screened with a PID. One (1) soil sample would be collected from each test pit. The sample location would be biased towards the area of greatest suspected contamination, based on field and visual indicators. If no indicators of a discharge were present, the soil sample would be collected from grade. Furthermore, one (1) soil sample would be collected from grade in the drum storage area identified on the site visit. All samples would be analyzed for TPHC and ¼ of the samples (those with the highest TPHC) would be analyzed for PP + 40.

3. Site Investigation Performed

Between March 13, 2002 and march 21, 2002, the exterior area of the site (where no buildings formerly existed) was investigated. Test pits were performed in a grid pattern, as proposed. Test pits extended to the groundwater table and samples were collected from the 6" interval of highest suspected contamination (based on field indicators). In general, field indicators showed that interval of greatest contamination was directly above the groundwater table. Soil sample depths ranged from 8' to 9.5' below grade. Samples with the most evidence of contamination were analyzed for PP + 40 and TPHC. Due to strong petroleum odors, the remaining samples (not analyzed for PP + 40) were analyzed for VOC and lead (in addition to the proposed TPHC). Because the drum storage area overlapped with sampling conducted in the interior

hazardous material storage area, sampling conducted in that area is described below, in the section entitled "Interior Hazardous Material Storage Area".

4. Results/Recommendations

Chlorobenzene was detected above the applicable NJDEP limit. Because elevated levels of chlorobenzene were detected in several soil samples associated with the interior hazardous material storage area, recommendations for future investigation/remediation will be discussed as one combined AOC. See the section below entitled "Interior Hazardous Material Storage Area" for recommendations for additional investigation/remediation.

G. Air Vents

1. General Description

A chimney, stack and several exhaust fans were located during a site visit.

2. Proposed Site Investigation

Collecting one (1) soil sample from grade from each location was proposed. The samples would be analyzed for PP + 40 and TPHC.

3. Site Investigation Performed

Between March 15, 2002 and March 21, 2002, five (5) soil samples were collected from the vent areas and analyzed for PP + 40 and TPHC. However, samples were not collected from grade, as proposed. Through field indicators, it was determined that contamination was generally greatest directly above the groundwater table throughout the site. Furthermore, four (4) of the vent sample locations corresponded to hazardous material storage area sample locations. Therefore, soil samples were collected from the 6" interval of greatest suspected contamination. Sample depths ranged from 9' to 10.5' below grade.

4. Results/Recommendations

Analytical results indicated that no compounds were present above the applicable NJDEP limits in three (3) of the samples collected. In the remaining two (2) samples (both of which corresponded to interior hazardous material storage area locations), chromium and chlorobenzene were detected above the applicable NJDEP limits,

respectively. Because elevated levels of chlorobenzene and chromium were detected in several soil samples associated with the interior hazardous material storage area AOC, it does not appear to be the result of a discharge associated specifically with the air vents. Therefore, recommendations for this location will be discussed below, in the section entitled "Interior Hazardous Material Storage Area".

H. Interior Hazardous Material Storage Area (including AST's, loading areas, boiler rooms, and paint booth)

1. General Description

As previously stated in this report, the USEPA removed a large amount of hazardous material from this site. The storage location of this material is unknown. Subsequent to the USEPA conducting their remedial activities, the building was demolished.

Furthermore, the Sanborn maps from the 1800's show various materials stored on site. However, because these maps have no dimensions or property lines, the locations of material storage are unknown. The building demolition debris is buried on site (in the former basement).

AST's, loading areas, boiler rooms and a paint booth were located inside of the building prior to demolition. Any discharges associated with those AOC's would be addressed by the investigation proposed for interior hazardous material storage.

2. Proposed Site Investigation

To investigate this area, removing the debris and inspecting the basement floor was proposed. If the floor was in good condition (no cracks, holes, staining, etc.), no additional investigation was proposed. If the floor was in poor condition, sampling would be required.

The former interior portion of this property (the basement) would be divided into 900 square foot grids. One (1) soil sample would be collected from 0" to 6" below the basement floor from each grid. The sample location would be biased towards the area of greatest suspected contamination, based on field and visual indicators. All samples would be analyzed for TPHC and 1/4 of the samples (those with the highest TPHC) would be analyzed for PP + 40.

3. Site Investigation Performed

This AOC was investigated between March 13, 2002 and March 20, 2002. As proposed, the building debris was removed to inspect the former basement floor. Several large holes were observed in the floor. It appeared that the holes were intentionally made prior to demolition to drain water that collected in the basement.

To investigate this AOC soil samples were collected from all of the holes from 0" to 6" below the concrete basement floor (which corresponded to 9.5' to 10.5' below grade). Furthermore, a sample was collected from below a floor slab at grade and from below the pit (corresponding to 4' and 6' below grade, respectively). Therefore, a total of thirteen (13) soil samples were collected from this AOC. As stated previously, some of these samples for this AOC corresponded with locations to investigation other AOC's (i.e., drum storage area, dumpster, air vents, etc.)

As with the outside hazardous material storage area, samples with the most evidence of contamination were analyzed for PP + 40 and TPHC. Due to strong petroleum odors, the remaining samples (not analyzed for PP + 40) were analyzed for VOC and lead (in addition to the proposed TPHC).

4. Results/Recommendations

Nine (9) of the soil samples collected from this AOC contained various compounds above the applicable NJDEP limits. Specifically, elevated levels of VOC's, BN's, mercury, chromium, pesticides and TPHC were detected.

As stated in previous sections of this report, soil contamination is generally consistent (depths, compounds, concentrations) throughout the site. Therefore, future considerations regarding additional investigation/remediation will address soil contamination as one (1) AOC, rather than individual discharges.

Soil contamination found throughout the site must be addressed (delineated and/or remediated) prior to site redevelopment.

I. Groundwater

1. General Description

Soil contamination extends into the groundwater table. Therefore, a groundwater investigation must be performed, in accordance with N.J.A.C.7:26E.

2. Proposed Site Investigation

Because whether performing a groundwater investigation was warranted was unknown prior to performing the soil investigation, no specific groundwater was proposed to the NJDEP.

3. Site Investigation Performed

Based on the soil sampling results, a groundwater investigation was conducted for VOC's, BN's and mercury. Although TPHC was detected above the applicable NJDEP limit in soil, there are no groundwater standards for TPHC and no groundwater investigation was performed. Regarding chromium, concentrations of total chromium were detected above the applicable NJDEP limit for hexavalent chromium. Additional testing specifically for hexavalent chromium must be performed to determine if a groundwater investigation for chromium is warranted.

On May 24, 2004, three (3) monitoring wells were installed at the locations of highest soil contamination, for VOC's, BN's and mercury, respectively. Each well was sampled and samples were analyzed only for which compound was found at an elevated level in soil at that location. Specifically, on June 11, 2004, MW-1 was analyzed for VOC's, MW-3 was analyzed for BN's and MW-4 was analyzed for mercury.

4. Results/Recommendations

VOC's were detected above the applicable NJDEP limits in MW-1. Therefore, groundwater contamination must be addressed (delineated and/or remediated) prior to site redevelopment.

VII. Quality Assurance/Quality Control

The SI and sampling was performed in accordance with all applicable sections of N.J.A.C.7:26E and the May 1992 edition of the NJDEP Field Sampling Procedures Manual. Field monitoring equipment was properly calibrated prior to use.

A. The following equipment was used for sampling:

1. Soil

- a. Stainless steel trowels for sampling 0" to 6" below grade.
- b. Trackhoe for the investigation of subsurface material deeper than 6". Soil samples were collected from the trackhoe bucket utilizing a stainless steel trowel or directly with a sample jar.

2. Groundwater

- a. Bottom-fill bailers (dedicated.)
- b. Peristaltic/submersible pump.

B. The investigation was performed in the following manner:

1. Soil

- a. Select soil sampling location.
- b. Select proper sampling equipment, methods and health and safety precautions.
- c. Perform soil test pit.
- d. Classify soil by accepted soil classification system.
- e. Collect soil samples for laboratory analysis.

2. Groundwater

A qualified NJDEP certified laboratory sampled the groundwater in accordance with applicable NJDEP sampling requirements. The groundwater monitoring wells were installed in the following manner:

- a. Obtain well permits from the NJDEP.
- b. Well driller was licensed with the NJDEP.
- c. Well permit number was affixed to the top of the well casing.

- d. Wells were developed to a turbid-free discharge.
- e. If the groundwater was suspected to be contaminated, the development liquid and drill cuttings were containerized to await groundwater testing.

Sampling equipment was dedicated or properly decontaminated in the field prior to sampling. Field blanks and trip blanks were collected in accordance with all applicable NJDEP QA/QC requirements. Each sample was placed in a laboratory cleaned and prepared sampling jar and labeled with project number, sample designation, date, time and analysis required. Chain of custody documents were prepared to accompany each sample.

All of the samples were transported in coolers at 4° Celsius. The samples were transported to a NJDEP certified laboratory.

VIII. Limitations

Please note that the investigation described herein was limited in scope. The results of the investigation are indicative of the specific sampling locations at a specific time and may not be indicative of the surrounding conditions. Remington and Vernick performed the investigation with due diligence, in accordance with N.J.A.C.7:26E. Remington and Vernick gives no assurance regarding those areas that were not investigated. If further information indicates conditions different from what is stated herein, Remington and Vernick reserves the right to amend our report accordingly.

IX. Conclusions

A. Soil

A soil investigation was performed on AOC's where additional investigation was required. As stated in previous sections of this report, soil contamination is generally consistent (depths, compounds, concentrations) throughout the site. Specifically, elevated levels of VOC's, BN's, mercury, chromium, pesticides and TPHC were detected. In general, the greatest contamination (through field indicators and corresponding analytical results) was detected directly above the groundwater table (ranging from approximately 9.5' to 10.5' below grade). Therefore, future considerations regarding additional investigation/remediation will address soil contamination as one AOC, rather than individual discharges.

Soil contamination found throughout the site must be addressed (delineated and/or remediated) prior to site redevelopment. Prior to

performing any additional investigation, a workplan will be submitted to the NJDEP for approval.

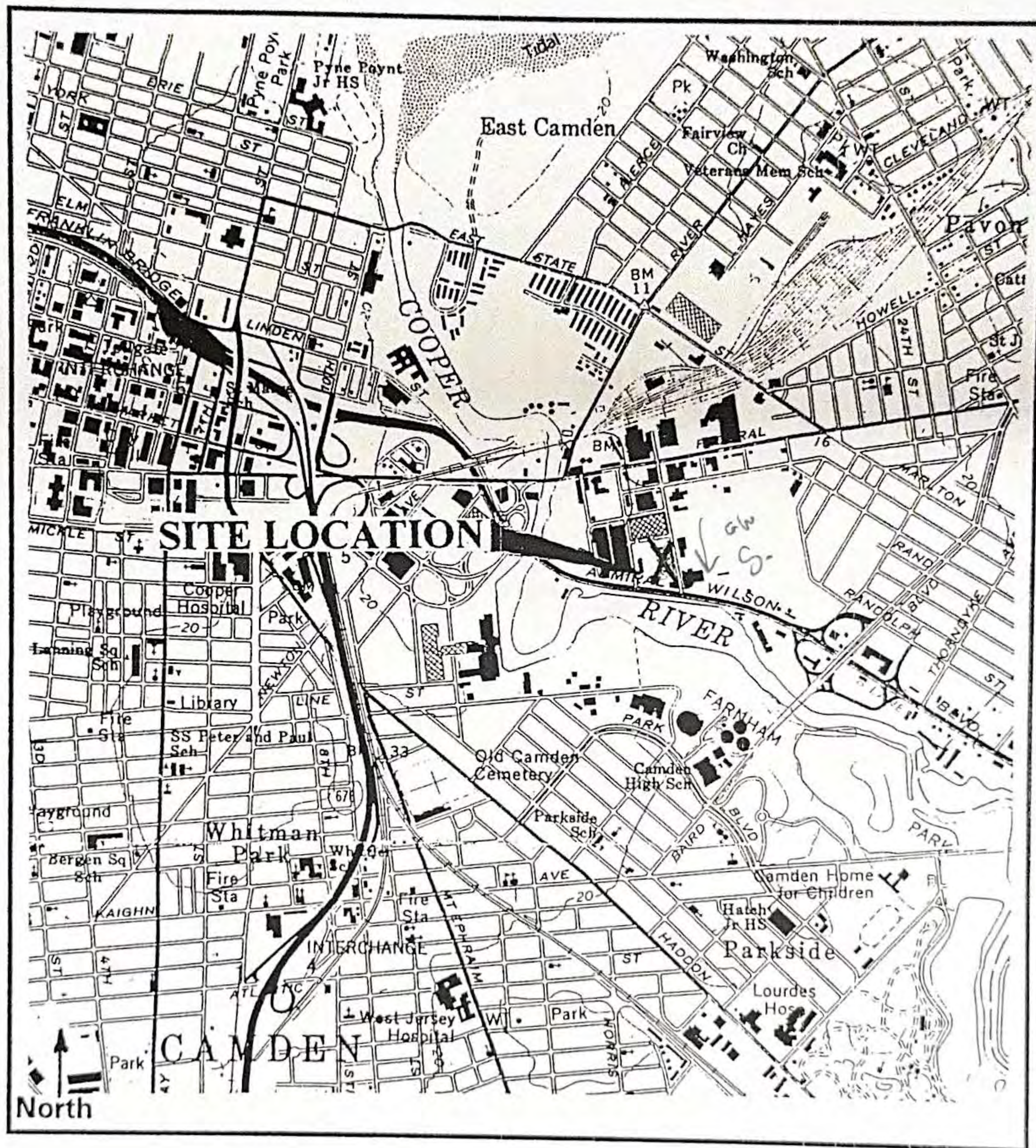
B. Groundwater

Monitoring wells were installed at the three (3) locations containing the highest soil contamination. As stated previously, elevated levels of VOC's were detected in groundwater. Therefore, groundwater contamination must be addressed (delineated and/or remediated) prior to site redevelopment. Prior to performing any additional investigation, a workplan will be submitted to the NJDEP for approval.

WJ



APPENDIX A



Source: USGS
 Quadrangle Map
 Camden Quad

Scale: 1" = 2000'

City of Camden
 Robert Schwiker Property
 Block 1208, Lot 4
 Admiral Wilson Boulevard
 Camden County, New Jersey

APPENDIX B

TEST PIT LOG

Sheet 1 of 1.

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-01

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

**** HNU Readings in ppm**

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

GROUNDWATER INFORMATION	
DATE:	3/13/02
TIME:	During Excavating
DEPTH:	10 feet

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-02

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				10	0 - 0.67 ft. - (Root Zone) grass at surface, dark brown medium to fine sand and fine to medium gravel, some ash, cinder, little silt 0.67 - 1 ft. - dark brown medium to fine sand, some medium to fine gravel, some ash, cinder, concrete debris
1					1 - 3 ft. - Concrete slab
2					
3				30	3 - 4 ft. - dark brown medium to fine sand, some fine to medium gravel, ash, cinder, concrete debris, petroleum odor
4	AOC-7-02-S1		4 - 4.5	50	4 - 10 ft. - yellowish brown medium to fine sand, little fine to medium gravel, trace silt Petroleum odor
5					
6				30	
7					
8				20	
9					
10				20	
					Groundwater at 10 feet End of Test Pit

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

TEST PIT LOG

FIELD LOG

Sheet 1 of 1.

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-03

[illegible]

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
C. Core Drilling
D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-04

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				15	0 - 0.67 ft. - (Root Zone) grass at surface, dark brown medium to fine sand, and fine to medium gravel, some concrete, brick, and glass debris, trace silt 0.67 - 2 ft. - dark brown medium to fine sand and fine to medium gravel, some ash, cinder, brick, and concrete debris, little silt
1					2 - 4 ft. - Yellowish brown medium to fine sand and fine to medium gravel, some brick, concrete, wood debris, trace silt, slight odor
2				20	
3					
4				70	4 - 10 ft. - Green/greenish gray fine to coarse sand, fine to medium gravel, trace silt strong petroleum odor
5					
6					
7					
8					
9					
	AOC-7-04-S1		9.5 - 10	120	
10					Groundwater at 10 feet End of Test Pit

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-05

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				20	0 - 0.55 ft. (Root Zone) - grass at surface, dark brown medium to fine sand, some, fine to medium gravel, some ash, cinder, little silt
					0.55 - 1.25 Dark brown medium to fine sand and medium to fine gravel, some ash, cinder, concrete debris
1				30	1.25 - 3 ft. - Dark brown medium to fine sand and fine to medium gravel, some ash, cinder, concrete debris, little silt, petroleum odor
2					
3					3 - 8 ft. - Yellowish brown medium to fine sand, little fine to medium gravel, trace silt
4				50	
5					
6				70	
7					
8				165	8 - 10 ft. - Greenish gray, fine to coarse sand, some fine to medium gravel, little silt, strong petroleum odor
9					
10				200	
					Groundwater at 10 feet
					End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

TEST PIT LOG

Sheet 1 of 1.

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-06

* SAMPLE TYPE

**** HNU Readings in ppm**

INSPECTOR: Marco Carulli

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 26-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-07

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				10	0 - 0.65 ft. - (Root Zone) grass at surface, dark brown medium to fine sand and fine to medium gravel, some ash, cinder, little silt
					0.65 - 1 ft. - dark brown medium to fine sand and medium to fine gravel, some ash, cinder, concrete debris
1					1 - 2 ft. - Concrete slab
2					
3				30	2 - 4 ft. - dark brown medium to fine sand and fine to medium gravel, some ash, cinder, concrete debris. petroleum odor
4				50	4 - 10 ft. - yellowish brown medium to fine sand, little fine to medium gravel, little silt
5					Petroleum odor
6				50	
7					
8				30	
9					
10				30	
					Groundwater at 10 feet
					End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

**** HNU Readings in ppm**

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-08

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				5	0 - 0.60 ft. - (Root Zone) grass at surface, dark brown medium to fine sand, and fine to medium gravel, some ash and cinder, little silt 0.60 - 2 ft. ash and cinder and medium to fine gravel, some medium to coarse sand
1					
2					2 - 3 ft. - Concrete slab
3				15	3 - 4 ft. - dark brown coarse to fine sand, some medium to fine gravel, some ash, cinder, and concrete debris, trace silt
4				25	4 - 10 ft. - Yellowish brown medium to fine sand, little fine to medium gravel, trace silt Petroleum odor
5					
6					
7				30	
8					
9					
10				35	
					Groundwater at 10 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-09

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				20	0 - 0.67 ft. (Root Zone) - grass at surface, dark brown medium to fine sand, and fine to medium gravel, some ash, cinder, little silt
					0.67 - 1 ft. Dark brown medium to fine sand and medium to fine gravel, some ash, cinder, concrete debris
1				30	1 - 3 ft. - Dark brown medium to fine sand and fine to medium gravel, some ash, cinder, concrete debris, little silt, petroleum odor
2					
3					3 - 8 ft. - Yellowish brown medium to fine sand, little fine to medium gravel, trace silt
4				70	
5					
6				70	
7					
8				80	8 - 10 ft. - Greenish gray, fine to coarse sand, some fine to medium gravel, little silt. petroleum odor
9					
10				100	
					Groundwater at 10 feet
					End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-10

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL. **	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				15	0 - 0.65 ft. - (Root Zone) grass at surface, dark brown medium to fine sand, and fine to medium gravel, some concrete, brick, and glass debris, trace silt 0.65 - 1.75 ft. - dark brown medium to fine sand and fine to medium gravel, some ash, cinder, brick, and concrete debris, little silt
1					1.75 - 4 ft. - Yellowish brown medium to fine sand and fine to medium gravel, some brick, concrete, wood debris, trace silt, slight odor
2				20	
3					
4				80	4 - 10 ft. - Green/greenish gray fine to coarse sand, fine to medium gravel, trace silt petroleum odor
5					
6					
7				100	
8					
9					
10				110	
					Groundwater at 10 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-7-11

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				20	0 - 0.55 ft. (Root Zone) - grass at surface, dark brown medium to fine sand, and fine to medium gravel, some ash, cinder, little silt 0.55 - 1 ft. Dark brown medium to fine sand and medium to fine gravel, some ash, cinder, concrete debris
1				30	1 - 3 ft. - Dark brown medium to fine sand and fine to medium gravel, some ash, cinder, concrete debris, little silt, petroleum odor
2					
3					3 - 8 ft. - Yellowish brown medium to fine sand, little fine to medium gravel, trace silt
4				70	
5					
6				80	
7					
8				100	8 - 10 ft. - Greenish gray, fine to coarse sand, some fine to medium gravel, little silt. petroleum odor
9					
10				135	
					Groundwater at 10 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 15, 2002
Client: City of Camden
Log of Boring No. AOC-10-01 vent/duct area

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0					0 - 3 ft. - brownish yellow medium to fine sand
	AOC-10-01-S1		0.5 - 1	3	
1					3 - 6 ft. - Concrete and brick (80%) with brownish yellow medium to fine sand (20%)
2					
3					Concrete slab
4					
5					Concrete Slab at 6 feet End of Test Pit
6				0	

GROUNDWATER INFORMATION

DATE: 3/15/02
TIME: During Excavating
DEPTH: None observed

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Sheet 1 of 1.

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-11-01

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 13, 2002
Client: City of Camden
Log of Boring No. AOC-11-02

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0					0 - 1.5 ft. - (Root Zone) grass at surface, dark brown medium to fine sand, some fine to medium gravel, some concrete, brick, glass, ash, cinder, and wood debris, trace silt
1					
				10	1.5 - 2 ft. - dark brown and yellowish brown medium to fine sand, fine to medium gravel, some concrete and brick debris
2					2 - 3 ft. - Concrete slab
3				20	3 - 4 ft. - ash, cinder, concrete, brick debris, dark brown medium to fine sand, fine to medium gravel
4	AOC-11-02-S1		4 - 4.5	30	4 - 10 ft. - Yellowish brown medium to fine sand, some fine to medium gravel, trace silt
5					
6				20	
7					
8				10	
9					
10				10	
					Groundwater at 10 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/13/02
TIME: During Excavating
DEPTH: 10 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR:

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

TEST PIT LOG

Sheet 1 of 1.

Date: March 14, 2002
Client: City of Camden
Log of Boring No. AOC-11-03 at SW Portion of Building

* SAMPLE TYPE

DATE: 3/14/02
TIME: During Excavating
DEPTH: NA

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

INSPECTOR: Marco Carulli

232 King's Highway East Haddonfield, New Jersey 08033

FIELD LOG

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 26-12-13-0056-34

Client: City of Camden

Log of Boring No. AOC-11-04 South Central 1922 Building

GROUNDWATER INFORMATION

DATE: 3/14/02
TIME: During Excavating
DEPTH: NA

A. Standard Penetration Test (ASTM-D 1586)
B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
C. Core Drilling
D. Hand Auger Sample

**** HNU Readings in ppm**

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V121
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 14, 2002
Client: City of Camden
Log of Boring No. AOC-11-04 (pit)

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0				2	0 - 4 ft. - fill material, brick, concrete, 10% soil (brown)
1					
2					4 - 7 ft. - ash material (70%), concrete (10%), crushed brick (5%), brown medium to fine sand (15%), little silt
3					
4				3	(sample taken from within fill)
5					
6	AOC-11-04-S1		6 - 6.5		
					(sample taken 0.5 feet below fill material) 7 - 8 ft. - light gray fine sand
7	AOC-11-04-S2		7 - 7.5		
8					
					Groundwater at 8 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/15/02
TIME: 10:35
DEPTH: 8 feet

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR:

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1

Project No. 0408V074
Project: Former Schwiker Site
Location: 17th Street, Camden, New Jersey
NJDEP Case #: 96-12-13-0056-34

Date: March 15, 2002
Client: City of Camden
Log of Boring No. AOC-11-05

BORING DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE*	SAMPLE DEPTH (FEET)	FIELD HEAD ANAL.**	CLASSIFICATION OF MATERIALS
					(based on samples recovered plus observation of material returned between samples)
0					0 - 3.5 ft. - brownish yellow medium to fine sand
				5	
1					
2					
3				5	3.5 - 5.75 ft. - Concrete and brick (80%) some brownish yellow medium to fine sand (20%)
4					
5					
6				0	6 ft - Concrete slab
					Concrete Slab at 6 feet End of Test Pit

GROUNDWATER INFORMATION

DATE: 3/15/02
TIME: During Excavating
DEPTH: None observed

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

**** HNU Readings in ppm**

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

232 King's Highway East Haddonfield, New Jersey 08033

TEST PIT LOG

FIELD LOG

Sheet 1 of 1.

Project No. 0408V121

Project: Former Schwiker Site

Location: 17th Street, Camden, New Jersey

NJDEP Case #: 96-12-13-0056-34

Date: March 15, 2002

Client: City of Camden

Log of Boring No. AOC-11-06

[illegible]

GROUNDWATER INFORMATION

DATE: 3/15/02

TIME: During Excavating

DEPTH: None observed

* SAMPLE TYPE

A. Standard Penetration Test (ASTM-D 1586)

B. Standard Thin-Walled 3" Tube (ASTM-D 1587)

C. Core Drilling

D. Hand Auger Sample

**** HNU Readings in ppm**

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

232 King's Highway East Haddonfield, New Jersey 08033

FIELD LOG

Project No. 0408V121

Project: Former Schwiker Site

Location: 17th Street, Camden, New Jersey

NJDEP Case #: 96-12-13-0056-34

GROUNDWATER INFORMATION

DEPTH: None observed

INSPECTOR: Marco Carulli

Sheet 1 of 1.

Date: March 15, 2002
Client: City of Camden
Log of Boring No. AOC-11-08

GROUNDWATER INFORMATION

DATE:	3/15/02
TIME:	During Excavating
DEPTH:	None observed

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

CONTRACTOR: Oxford Engineering Co.
 OPERATOR: Jim
 EQUIPMENT: CAT 318 BLM
 INSPECTOR: Marco Carulli

232 King's Highway East Haddonfield, New Jersey 08033

FIELD LOG

Project No. 0408V121

Date: March 15, 2002

Project: Former Schwiker Site

Client: City of Camden

Location: 17th Street, Camden, New Jersey

Log of Boring No. AOC-11-09.

NJDEP Case #: 26-12-13-0056-34

GROUNDWATER INFORMATION

DATE: 3/15/02

TIME: During Excavating

DEPTH: None observed

* SAMPLE TYPE

A. Standard Penetration Test (ASTM-D 1586)

B. Standard Thin-Walled 3" Tube (ASTM-D 1587)

C. Core Drilling

D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

TEST PIT LOG

Sheet 1 of 1.

Date: March 15, 2002

Client: City of Camden

Log of Boring No. AOC-11-10[illegible]

DEPTH: None observed

**** HNU Readings in ppm**

INSPECTOR: Marco Carulli

TEST PIT LOG

Sheet 1 of 1.

Date: March 14, 2002

Client: City of Camden

Log of Boring No. AOC-11-11

Page of Form No. 100-100-100

[illegible]

GROUNDWATER INFORMATION

DATE: 3/14/02

TIME: During Excavating

DEPTH: None observed

* SAMPLE TYPE

A. Standard Penetration Test (ASTM-D 1586)

B. Standard Thin-Walled 3" Tube (ASTM-D 1587)

C. Core Drilling

D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLM

INSPECTOR: Marco Carulli

TEST PIT LOG

Sheet 1 of 1.

Date: March 14, 2002
Client: City of Camden
Log of Boring No. AOC-11-12

CLASSIFICATION OF MATERIALS

(based on samples recovered plus observation of material returned between samples)

0 - 0.65 ft. - (Root Zone) brown medium to fine sand, some fine to medium gravel, some debris (brick, gravel, concrete, wood, glass)

0.65 - 4 ft. - Brown fine to medium sand and fine to medium gravel, some debris (brick, stone, concrete, wood), no odor
fill material

4 - 5 ft. - Concrete slab

5 - 8 ft. - Black ash and cinder and medium to fine sand, little silt

8 ft - Concrete floor slab	
----------------------------	--

Concrete Floor at 8 feet
End of Test Pit

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Core Drilling
- D. Hand Auger Sample

** HNU Readings in ppm

CONTRACTOR: Oxford Engineering Co.

OPERATOR: Jim

EQUIPMENT: CAT 318 BLMINSPECTOR: Marco Carulli

Remington & Vernick Engineers

232 King's Highway East Haddonfield, New Jersey 08033

SOIL BORING LOG

Sheet 1 of 1

Project No.: 0408V121
Project: Robert Schwiker Property
Location: Camden, New Jersey

Date: 5/24/04
Client:
Log of Boring No.: MW-1

Boring Depth (feet)	Sample Number	Sample Type*	Recovery (inches)	CLASSIFICATION OF MATERIALS
				(based on samples recovered plus observation of material returned between samples)
3 - 5	S1	A	4 (refusal)	Recently spread soil surface; cuttings become black at ~2' Asphalt (Smooth drilling, black cuttings to ~8')
8 - 10	S2	A	15	5" black on 10" brownish-gray fine-medium SAND, trace fine gravel; no noticeable odor from black material; saturated
13 - 15	S3	A	24	Brownish-gray fine-medium SAND, trace fine-medium gravel; bottom 10" mostly stained black with petroleum odor; saturated
18 - 20	S4	A	12 (refusal)	Black-stained SAND & GRAVEL; 1" red lump in middle; strong petroleum odor; saturated End of boring at 19' bgs <u>Monitoring well installation:</u> 15' x 4" PVC slotted screen set at 19' bgs FilPro coarse sand filter pack to ~ 3' bgs (1' over screen) Holeplug bentonite chips to ~ 2' bgs Cement pad and 6"-diameter steel protective casing with locking lid

GROUNDWATER INFORMATION

DATE: 5/24/04
TIME: during drilling
DEPTH: ~ 9' (estimated)

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Rock Core
- D. Auger Sample

CONTRACTOR: Uni-Tech Drilling Co.
DRILLER: Rich
HELPERS: Bill & Bill
EQUIPMENT: CME-75 with 6 1/4" HAS
INSPECTOR: L. Lueck

Trace = <10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

SOIL BORING LOG

Sheet 1 of 1

Project No.: 0408V121
Project: Robert Schwiker Property
Location: Camden, New Jersey

Date: 5/24/04
Client:
Log of Boring No.: MW-3

Boring Depth (feet)	Sample Number	Sample Type*	Recovery (inches)	CLASSIFICATION OF MATERIALS
				(based on samples recovered plus observation of material returned between samples)
				Recently spread soil surface (Hard drilling from ~2'-3')
3 - 5	S1	A	16	10" brown fine SAND, trace-little silt, on 1" dark brown silty SAND, on 3" red BRICK, on 2" rotten WOOD; trace coarse gravel in drive shoe; moist
8 - 10	S2	A	12	10" brown-light brown fine SAND, trace silt, trace gravel, on 2" dark red BRICK; saturated (Cuttings wet)
13 - 15	S3	A	24	Brown well-graded SAND, trace silt, trace fine gravel; 2" dark layer of petroleum contamination near bottom; saturated (~3.5" water on rod & split spoon)
18 - 20	S4	A	19	5" brown fine-medium SAND, on 12" gray soft CLAY with few reddish mottles, on 2" weathered red-brown schist fragment; saturated End of boring at 20' bgs <u>Monitoring well installation:</u> 15' x 4" PVC slotted screen set at 20' bgs FilPro coarse sand filter pack to ~ 4' bgs (1' over screen) Holeplug bentonite chips to ~ 3' bgs Cement pad and 6"-diameter steel protective casing with locking lid

GROUNDWATER INFORMATION

DATE: 5/24/04
TIME: during drilling
DEPTH: ~ 11' (estimated)

*** SAMPLE TYPE**

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Rock Core
- D. Auger Sample

CONTRACTOR: Uni-Tech Drilling Co.
DRILLER: Rich
HELPERS: Bill & Bill
EQUIPMENT: CME-75 with 6 1/4" HAS
INSPECTOR: L. Lueck

Trace = < 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Remington & Vernick Engineers
232 King's Highway East Haddonfield, New Jersey 08033

SOIL BORING LOG

Sheet 1 of 1

Project No.: 0408V121
Project: Robert Schwiker Property
Location: Camden, New Jersey

Date: 5/24/04
Client:
Log of Boring No.: MW-4

Boring Depth (feet)	Sample Number	Sample Type*	Recovery (inches)	CLASSIFICATION OF MATERIALS
				(based on samples recovered plus observation of material returned between samples)
3 - 5	S1	A	6 (refusal)	Recently spread soil surface; cuttings to 3' = sand, little-some coarse gravel Brown silty SAND & GRAVEL; moist (Very rough drilling; estimate ~2'-3' concrete; cuttings become wet at ~8'-8.5' penetrate concrete at ~ 9')
10 - 12	S2	A	9	Gray-brown well-graded SAND, trace fine gravel; saturated
13 - 15	S3	A	20	Same as above
18 - 20	S4	A	20	Same as above
				End of boring at 20' bgs
				Note: Slight sheen on auger and petroleum odor in completed hole
				<u>Monitoring well installation:</u> 15' x 4" PVC slotted screen set at 19' bgs FilPro coarse sand filter pack to ~ 3' bgs (1' over screen) Holeplug bentonite chips to ~ 2' bgs Cement pad and 6"-diameter steel protective casing with locking lid

GROUNDWATER INFORMATION	
DATE:	5/24/04
TIME:	during drilling
DEPTH:	~ 9' (estimated)

* SAMPLE TYPE

- A. Standard Penetration Test (ASTM-D 1586)
- B. Standard Thin-Walled 3" Tube (ASTM-D 1587)
- C. Rock Core
- D. Auger Sample

CONTRACTOR: Uni-Tech Drilling Co.
DRILLER: Rich
HELPERS: Bill & Bill
EQUIPMENT: CME-75 with 6 1/4" HAS
INSPECTOR: L. Lueck

APPENDIX C

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-01-S1	3/13/02	TPHC, Lead	0203111-001A	9-9.5	TPHC	192.0	10000	
						Lead	164	400	
	AOC-7-01-S2	3/13/02	TPHC, PP + 40	0203111-002A	9.5-10	TPHC	229.2	10000	
						Arsenic	3.26	20	
						Chromium	8.93	20	
						Copper	19.3	600	
						Zinc	12.2	1500	
						Selenium	0.099	63	
						n-Butylbenzene	1.64	no limit	
						sec-Butylbenzene	1.31	no limit	
						Cyanide	0.09	1100	
	AOC-7-02-S1	3/13/02	TPHC, Lead	0203111-003A	9-9.5	TPHC	38.87	10000	
						Lead	67.5	400	
	AOC-7-03-S1	3/13/02	TPHC, PP + 40	0203111-004A	9-9.5	TPHC	58.64	10000	
						Mercury	0.0641	14	
						Chromium	9.75	20	
						Copper	26.7	600	
						Lead	29.8	400	
						Nickel	5.71	250	
						Zinc	28.5	1500	
						Selenium	0.13	63	
						n-Butylbenzene	0.3	no limit	
	AOC-7-04-S1	3/13/02	TPHC, PP + 40	0203111-005A	9-9.5	TPHC	43.46	10000	
						Arsenic	9.85	20	
						Mercury	0.022	14	
						Chromium	2.4	20	
						Copper	17.6	600	
						Lead	19	400	
						Zinc	4.29	1500	
						Selenium	0.607	63	
						Thallium	0.62	2	
	AOC-7-05-S1	3/20/02	TPHC, PP + 40	0203155-009A	9.5-10	TPHC	533.8	10000	
						Arsenic	4.21	20	
						Chromium	11.4	20	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-05-S1 (cont.)	3/20/02	TPHC, PP + 40	0203155-009A	9.5-10	Copper	33.5	600	
						Nickel	6.51	250	
						Zinc	22.7	1500	
						Bis(2-ethylhexyl)phthalate	0.197	49	
						1,2,4-Trimethylbenzene	60.6	no limit	
						1,3,5-Trimethylbenzene	22.3	no limit	
						1,4-Dichlorobenzene	0.884	100	
						1-Methylnaphthalene	5.62	no limit	
						Chlorobenzene	2.19	1	X
						Ethylbenzene	7.46	100	
						Isopropylbenzene	3.62	no limit	
						Total Xylenes	25.01	67	
						n-Propylbenzene	8.2	no limit	
						Naphthalene	3.95	100	
						sec-Butylbenzene	2.71	no limit	
	AOC-7-06-S1	3/20/02	TPHC, PP + 40	0203155-010A	9-9.5	TPHC	145.9	10000	
						Arsenic	6.71	20	
						Chromium	6.85	20	
						Copper	16.9	600	
						Zinc	8.82	1500	
						1,2,4-Trimethylbenzene	10.2	no limit	
						1,3,5-Trimethylbenzene	3.58	no limit	
						1-Methylnaphthalene	8.85	no limit	
						Chlorobenzene	0.32	1	
						Ethylbenzene	0.985	100	
						Isopropylbenzene	0.45	no limit	
						Total Xylenes	4.21	67	
						n-Butylbenzene	0.56	no limit	
						n-Propylbenzene	1.07	no limit	
						Naphthalene	3	100	
						sec-Butylbenzene	0.51	no limit	
	AOC-7-07-S1	3/21/02	TPHC, Lead VOC's	0203155-011A	8-8.5	TPHC	57.23	10000	
						1,2,4-Trimethylbenzene	0.988	no limit	
						1,3,5-Trimethylbenzene	0.4	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-07-S1 (cont.)	3/21/02	TPHC, Lead	0203155-011A	8-8.5	1-Methylnaphthalene	2.53	no limit	
						Total Xylenes	0.36	67	
						Naphthalene	0.38	100	
	AOC-7-08-S1	3/21/02	TPHC, PP + 40	0203155-012A	8-8.5	TPHC	46.44	10000	
						Arsenic	3.16	20	
						Chromium	4.81	20	
						Copper	16.9	600	
						Zinc	11.2	1500	
						Selenium	0.13	63	
	AOC-7-09-S1	3/21/02	TPHC, Lead VOC's	0203155-013A	8.5-9	TPHC	86.03	10000	
						Lead	61.8	400	
						1,2,4-Trimethylbenzene	1.28	no limit	
						1,3,5-Trimethylbenzene	0.33	no limit	
						Total Xylenes	0.44	67	
Outside Hazardous Material Storage Area and Air Vent	AOC-7-10-S1	3/21/02	TPHC, Lead VOC's	0203155-014A	9-9.5	TPHC	190.2	10000	
						Lead	11.7	400	
						1,2,4-Trimethylbenzene	13.7	no limit	
						1,3,5-Trimethylbenzene	5.8	no limit	
						Ethylbenzene	2.9	100	
						Total Xylenes	11.9	67	
						n-Propylbenzene	10.8	no limit	
Outside Hazardous Material Storage Area	AOC-7-11-S1	3/20/02	TPHC, Lead VOC's	0203155-015A	9.5-10	TPHC	285.4	10000	
						1,2,4-Trimethylbenzene	77.9	no limit	
						1,3,5-Trimethylbenzene	32.2	no limit	
						Ethylbenzene	10.3	100	
						Isopropylbenzene	5.4	no limit	
						Total Xylenes	46	67	
						n-Propylbenzene	9.27	no limit	
						sec-Butylbenzene	3.4	no limit	
Air Vents	AOC-10-01-S1	3/15/02	TPHC, PP + 40	0203111-011A	9.5-10	TPHC	173.9	10000	
						4,4'-DDD	0.0177	3	
						4,4'-DDT	0.054	2	
						Aroclor 1260	0.0963	no limit	
						Arsenic	2.79	20	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Air Vents	AOC-10-01-S1 (cont.)	3/15/02	TPHC, PP + 40	0203111-011A	9.5-10	Mercury	0.149	14	
						Cadmium	0.684	39	
						Chromium	13.8	20	
						Copper	35.8	600	
						Lead	42.4	400	
						Nickel	7.5	250	
						Zinc	47.6	1500	
						Benz(a)anthracene	0.5381	0.9	
						Benzo(b)fluoranthene	0.207	0.9	
						Fluoranthene	0.4243	100	
						Phenanthrene	0.255	no limit	
						Pyrene	0.4552	100	
						Cyanide	0.057	1100	
						TPHC	1253	10000	
Interior Hazardous Material Storage Area	AOC-11-01-S1	3/13/02	TPHC, PP + 40	0203111-006A	9.5-10	4,4'-DDD	6.4	3	X
						Aroclor 1260	0.325	no limit	
						Arsenic	4.82	20	
						Chromium	8.72	20	
						Copper	15.1	600	
						Zinc	13.2	1500	
						Selenium	0.474	63	
						Bis(2-ethylhexyl)phthalate	5.129	49	
						1,1-Dichloroethane	1.81	10	
						1,2,4-Trimethylbenzene	12.7	no limit	
						1,2-Dichlorobenzene	0.959	50	
						1,3,5-Trimethylbenzene	7.94	no limit	
						1,4-Dichlorobenzene	5.78	100	
						Benzene	1.28	1	X
						Chlorobenzene	13.1	1	X
						cis-1,2-Dichloroethene	1.14	1	X
						Ethylbenzene	3.03	100	
						Isopropylbenzene	4.24	no limit	
						Total Xylenes	19.909	67	
						n-Butylbenzene	2.85	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-01-S1 (cont.)	3/13/02	TPHC, PP + 40	0203111-006A	9.5-10	n-Propylbenzene	13.3	no limit	
						Naphthalene	4.83	100	
						sec-Butylbenzene	3.11	no limit	
						tert-Butylbenzene	0.48	no limit	
						Toluene	1.08	500	
						Cyanide	0.118	1100	
Interior Hazardous Material Storage Area and Dumpster	AOC-11-02-S1	3/13/02	TPHC, PP + 40	0203111-007A	9.5-10	TPHC	62.53	10000	
						4,4'-DDD	0.899	3	
						Aroclor 1260	0.12	no limit	
						Chromium	8.19	20	
						Copper	12	600	
						Zinc	11.6	1500	
						Selenium	0.1	63	
						Bis(2-ethylhexyl)phthalate	4.006	49	
						1,2,4-Trimethylbenzene	7.99	no limit	
						1,3,5-Trimethylbenzene	1.33	no limit	
						1,4-Dichlorobenzene	1.16	100	
						Benzene	0.19	1	
						Chlorobenzene	2.43	1	X
						Ethylbenzene	0.45	100	
						Isopropylbenzene	0.976	no limit	
						Total Xylenes	3.17	67	
						n-Butylbenzene	0.959	no limit	
						n-Propylbenzene	2.53	no limit	
						sec-Butylbenzene	1.27	no limit	
Interior Hazardous Material Storage Area	AOC-11-03-S1	3/14/02	TPHC, PP + 40	0203111-008A	4-4.5	TPHC	186.2	10000	
						4,4'-DDD	0.0417	3	
						Arsenic	16.9	20	
						Mercury	38.2	14	X
						Cadmium	1.09	39	
						Chromium	7.69	20	
						Copper	65.6	600	
						Lead	32.1	400	
						Nickel	18.7	250	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-03-S1 (cont.)	3/14/02	TPHC, PP + 40	0203111-008A	4-4.5	Zinc	86.2	1500	
						Selenium	1.34	63	
						Benz(a)anthracene	0.184	0.9	
						Benzo(b)fluoranthene	0.205	0.9	
						Chrysene	0.33	9	
						Fluoranthene	0.295	100	
						Phenanthrene	0.164	no limit	
						Pyrene	0.322	100	
						1,2,4-Trimethylbenzene	1.22	no limit	
						1,3,5-Trimethylbenzene	0.25	no limit	
						Chlorobenzene	0.4	1	
						Total Xylenes	0.66	67	
						n-Propylbenzene	0.53	no limit	
						Naphthalene	0.61	100	
						Cyanide	0.097	1100	
Interior Hazardous Material Storage Area and Pit	AOC-11-04-S1	3/15/02	TPHC, Lead VOC's	0203111-009A	6-6.5	TPHC	52.76	10000	
						Lead	83.1	400	
Interior Hazardous Material Storage Area	AOC-11-04-S2	3/15/02	TPHC, PP + 40	0203111-010A	9.5-10	TPHC	67.68	10000	
						4,4'-DDD	0.0127	3	
						Mercury	0.508	14	
						Chromium	36.8	20	X
						Copper	133	600	
						Nickel	9.56	250	
						Zinc	91.2	1500	
						Selenium	0.639	63	
	AOC-11-05-S1	3/19/02	TPHC, PP + 40	0203155-001A	10.5-11	TPHC	84.45	10000	
						Chromium	8.06	20	
						Copper	14	600	
						Zinc	14.7	1500	
Interior Hazardous Material Storage Area and Air Vent	AOC-11-06-S1	3/19/02	TPHC, PP + 40	0203155-002A	10.5-11	TPHC	76.07	10000	
						Arsenic	8.78	20	
						Mercury	0.496	14	
						Chromium	30.7	20	X

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area and Air Vent	AOC-11-06-S1 (cont.)	3/19/02	TPHC, PP + 40	0203155-002A	10.5-11	Copper	117	600	
						Lead	59.8	400	
						Nickel	8.27	250	
						Zinc	95.6	1500	
						Anthracene	0.3999	100	
						Benz(a)anthracene	0.7989	0.9	
						Benzo(a)pyrene	0.292	0.66	
						Benzo(b)fluoranthene	0.5037	0.9	
						Benzo(g,h,i)perylene	0.448	no limit	
						Benzo(k)fluoranthene	0.2199	0.99	
						Chrysene	0.8264	9	
						Fluoranthene	1.491	100	
						Ideno(1,2,3-cd)pyrene	0.339	0.9	
						Phenanthrene	1.389	no limit	
						Pyrene	1.559	100	
Interior Hazardous Material Storage Area	AOC-11-07-S1	3/19/02	TPHC, PP + 40	0203155-003A	10.5-11	TPHC	1532	10000	
						Arsenic	8.03	20	
						Chromium	19.4	20	
						Copper	141	600	
						Lead	248	400	
						Nickel	6.36	250	
						Zinc	152	1500	
						Anthracene	0.441	100	
						Benz(a)anthracene	1.857	0.9	X
						Benzo(a)pyrene	0.845	0.66	X
						Benzo(b)fluoranthene	1.523	0.9	X
						Benzo(g,h,i)perylene	0.9458	no limit	
						Benzo(k)fluoranthene	0.72	0.99	
						Bis(2-ethylhexyl)phthalate	3.936	1	X
						Chrysene	1.7998	9	
						Fluoranthene	3.89	100	
						Ideno(1,2,3-cd)pyrene	0.8977	0.9	
						Phenanthrene	1.074	no limit	
						Pyrene	3.786	100	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-08-S1	3/19/02	TPHC, Lead VOC's	0203155-004A	10-10.5	TPHC	77.19	10000	
						Chlorobenzene	0.935	1	
	AOC-11-09-S1	3/19/02	TPHC, Lead VOC's	0203155-005A	10-10.5	TPHC	21650	10000	X
						1,2,4-Trimethylbenzene	123	no limit	
						1,2-Dichlorobenzene	0.38	50	
						1,3,5-Trimethylbenzene	30.7	no limit	
						1,3-Dichlorobenzene	2.7	100	
						1,4-Dichlorobenzene	9.12	100	
						1-Methylnaphthalene	4.88	no limit	
						Chlorobenzene	27.6	1	X
						Isopropylbenzene	5.39	no limit	
						n-Butylbenzene	4.1	no limit	
						n-Propylbenzene	20.6	no limit	
						Naphthalene	1.23	100	
						sec-Butylbenzene	4.46	no limit	
						tert-Butylbenzene	0.71	no limit	
Interior Hazardous Material Storage Area and Air Vent	AOC-11-10-S1	3/19/02	TPHC, PP + 40	0203155-006A	10-10.5	TPHC	115.3	10000	
						Aroclor 1260	0.856	no limit	
						Arsenic	5.88	20	
						Chromium	12.8	20	
						Copper	22.1	600	
						Zinc	10.7	1500	
						Selenium	0.625	63	
						Phenolics, Total Recoverable	2.3	no limit	
Interior Hazardous Material Storage Area	AOC-11-11-S1	3/20/02	TPHC, Lead VOC's	0203155-007A	9.5-10	TPHC	10750	10000	X
						1,2,4-Trimethylbenzene	180	no limit	
						1,2-Dichlorobenzene	0.54	50	
						1,3,5-Trimethylbenzene	640	no limit	
						1,3-Dichlorobenzene	4.72	100	
						1,4-Dichlorobenzene	11.9	100	
						Benzene	0.38	1	
						Chlorobenzene	52.6	1	X
						Isopropylbenzene	8.61	no limit	
						n-Butylbenzene	6.32	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-11-S1 (cont.)	3/20/02	TPHC, Lead VOC's	0203155-007A	9.5-10	Naphthalene	5.12	100	
						sec-Butylbenzene	8.47	no limit	
						tert-Butylbenzene	0.982	no limit	
							42.33	10000	
Interior Hazardous Material Storage Area (Drum Storage Area) and Air Vent	AOC-11-12-S1	3/20/02	TPHC, PP + 40	0203155-008A	9.5-10	TPHC			
						Arsenic	9.97	20	
						Chromium	2.86	20	
						Copper	8.17	600	
						Zinc	21.2	1500	
						Selenium	0.23	63	
						1,2,4-Trimethylbenzene	12.6	no limit	
						1,3,5-Trimethylbenzene	7.12	no limit	
						1,3-Dichlorobenzene	0.806	100	
						1,4-Dichlorobenzene	2.34	100	
						1-Methylnaphthalene	10.1	no limit	
						Chlorobenzene	6.63	1	X
						Isopropylbenzene	1.3	no limit	
						Total Xylenes	17.4	67	
						n-Butylbenzene	1.62	no limit	
						n-Propylbenzene	4.33	no limit	
						Naphthalene	6.92	100	
						sec-Butylbenzene	1.51	no limit	
						Phenolics, Total Recoverable	4.5	no limit	
Underground Storage Tanks	PE1	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	5.24	400	
						TPHC	100	10000	
						Methylene Chloride	0.34 JB	1	
	PE2	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	5.61	400	
						TPHC	79.6	10000	
						Methylene Chloride	0.32 JB	1	
	PE3	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	7.73	400	
						TPHC	360	10000	
						Methylene Chloride	0.29 JB	1	
						Ethylbenzene	13.0	100	
						Total Xylenes	47.4	67	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Underground Storage Tanks	PE4	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	2.88	400	
						TPHC	79.8	10000	
						Methylene Chloride	0.34 JB	1	
	PE5	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	37.8	400	
						TPHC	56.7	10000	
						Methylene Chloride	0.48 JB	1	
	PE6	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	4.43	400	
						TPHC	69.2	10000	
						Methylene Chloride	0.33 JB	1	
	PE7	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	4.75	400	
						TPHC	180	10000	
						Methylene Chloride	0.32 JB	1	
	PE8	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	24.7	400	
						TPHC	77.9	10000	
						Methylene Chloride	0.36 JB	1	
	PE9	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	15.0	400	
						TPHC	48.6	10000	
						Methylene Chloride	0.33 JB	1	
						Ethylbenzene	0.33 J	100	
						Total Xylenes	0.71	67	
	PE10	3/14/00	TPHC, Lead VOC's	10002812-001	7.5-8	Lead	8.89	400	
						TPHC	61.7	10000	
						Methylene Chloride	0.31 JB	1	
Groundwater	MW-1	6/11/04	VOC's	0406077-004A	6.85	1-3 Dichlorobenzene	0.149	0.6	
						1,4-Dichlorobenzene	0.287	0.075	X
						Chlorobenzene	0.996	0.05	X
						Total Xylenes	0.0925	1	
						Naphthalene	0.0577	0.3	
						Toluene	0.0691	1	
	MW-3	6/11/04	BN's	0406077-003A	6.37	1,2-Dichlorobenzene	0.09559	0.6	
						1,3-Dichlorobenzene	0.01093	0.6	
						1,4-Dichlorobenzene	0.03474	0.075	
						Naphthalene	0.00586	0.3	
	MW-4	6/11/04	Mercury	0406077-002A	5.87	Mercury	0.0018	0.002	

APPENDIX D

Tanks

A & R RECYCLING COMPANY, INC.*Buyers of Ferrous and Non-ferrous Industrial Scrap Metal*

March 14, 2000

Mr. John Ruddy
Central Jersey Wrecking Co.
521 Cozzens Rd.
N. Brunswick, NJ 08902
(723) 940-1923

(2)
4000 gal
Tanks**CERTIFICATE OF DESTRUCTION**

This certifies that two 4000gal. steel tanks, picked up from 17th & Admiral Wilson Blvd., have been cut & processed for consumption at local steel mills. We received a letter from Michael E. Kidd, Active Environmental Technologies, Inc., stating tanks were cleaned and suitable for scrap processing.

Sub-contractor: A & R Recycling Company, Cinnaminson, New Jersey

Certificate of Destruction Completed by: A & R Recycling Company

Place of Destruction: A & R Recycling Company, Cinnaminson, New Jersey.

Signed By:



Raymond J. Trainor, Jr., Vice President
A & R Recycling Co., Inc.

Date: March 14, 2000

628 East Girard Avenue
Philadelphia, PA 19126

Phone: 856-829-1712
Fax: 856-829-2484

CVC CleanVenture/CycleChem

CVCC 021117

NON-HAZARDOUS SOLID WASTE

The Environmental Services Source

BILL OF LADING

Generator's Name and Mailing Address

PAT DISTEFANO

1800 ADMIRAL WILSON BOULEVARD, CAMDEN, NEW JERSEY 08102

Generators Phone (609) 702-0265

Transporter 1 Company Name

CLEAN VENTURE INC.

N J 0 0 0 0 0 2 7 1 9 3

Transporter 2 Company Name

Designated Facility Name and Site Address

CLEAN VENTURE INC.

217 SOUTH FIRST STREET

ELIZABETH, NEW JERSEY 07206

10.

US EPA ID Number

N J D 0 0 2 2 0 0 0 4 6

BOL 0 0 5 5 0 3 A

SAME

State Trans. ID-NJDEPE S 5 8 1 1

Decal No. 883121

Transporter's Phone (908) 355-5800

State Trans. ID-NJDEPE

Decal No.

Transporter's Phone ()

Facility's Phone (908) 355-5800

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)

Containers

No. Type

Total Quantity

Unit Wt/Vol

Waste No.

a. GASOLINE
3 UN1203 PGII

X X 1 T T

423

G

N/A

b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

L GASOLINE 100%

a.	c.
b.	d.

CCI Generator # and Product Codes:

PRODUCT FOR RECOVERY

24Hr. emergency phone # 908-354-0210 CLEAN VENTURE

GENRS GENERATOR # 923231 IK WO# 5503

T188-CT

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by USEPA & applicable state regulations.

PLACARDS
REQUIREDPLACARDS
SUPPLIED☐ YES ☐ NO- FURNISHED BY CARRIER

Printed/Typed Name

Signature

Month Day Year

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest.

Printed/Typed Name

Signature

Month Day Year

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

COPY 1 - WHITE - GENERATOR

COPY 2 - PINK - TRANSPORTER

COPY 3 - BLUE - CycleChem

COPY 4 - CANARY - FACILITY

APPENDIX E

APPENDIX F

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-01-S1	3/13/02	TPHC, Lead	0203111-001A	9-9.5	TPHC	192.0	10000	
						Lead	164	400	
	AOC-7-01-S2	3/13/02	TPHC, PP + 40	0203111-002A	9.5-10	TPHC	229.2	10000	
						Arsenic	3.26	20	
						Chromium	8.93	20	
						Copper	19.3	600	
						Zinc	12.2	1500	
						Selenium	0.099	63	
						n-Butylbenzene	1.64	no limit	
						sec-Butylbenzene	1.31	no limit	
						Cyanide	0.09	1100	
	AOC-7-02-S1	3/13/02	TPHC, Lead	0203111-003A	9-9.5	TPHC	38.87	10000	
						Lead	67.5	400	
	AOC-7-03-S1	3/13/02	TPHC, PP + 40	0203111-004A	9-9.5	TPHC	58.64	10000	
						Mercury	0.0641	14	
						Chromium	9.75	20	
						Copper	26.7	600	
						Lead	29.8	400	
						Nickel	5.71	250	
						Zinc	28.5	1500	
						Selenium	0.13	63	
						n-Butylbenzene	0.3	no limit	
	AOC-7-04-S1	3/13/02	TPHC, PP + 40	0203111-005A	9-9.5	TPHC	43.46	10000	
						Arsenic	9.85	20	
						Mercury	0.022	14	
						Chromium	2.4	20	
						Copper	17.6	600	
						Lead	19	400	
						Zinc	4.29	1500	
						Selenium	0.607	63	
						Thallium	0.62	2	
	AOC-7-05-S1	3/20/02	TPHC, PP + 40	0203155-009A	9.5-10	TPHC	533.8	10000	
						Arsenic	4.21	20	
						Chromium	11.4	20	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-05-S1 (cont.)	3/20/02	TPHC, PP + 40	0203155-009A	9.5-10	Copper	33.5	600	
						Nickel	6.51	250	
						Zinc	22.7	1500	
						Bis(2-ethylhexyl)phthalate	0.197	49	
						1,2,4-Trimethylbenzene	60.6	no limit	
						1,3,5-Trimethylbenzene	22.3	no limit	
						1,4-Dichlorobenzene	0.884	100	
						1-Methylnaphthalene	5.62	no limit	
						Chlorobenzene	2.19	1	X
						Ethylbenzene	7.46	100	
						Isopropylbenzene	3.62	no limit	
						Total Xylenes	25.01	67	
						n-Propylbenzene	8.2	no limit	
						Naphthalene	3.95	100	
						sec-Butylbenzene	2.71	no limit	
Outside Hazardous Material Storage Area and Air Vents	AOC-7-06-S1	3/20/02	TPHC, PP + 40	0203155-010A	9-9.5	TPHC	145.9	10000	
						Arsenic	6.71	20	
						Chromium	6.85	20	
						Copper	16.9	600	
						Zinc	8.82	1500	
						1,2,4-Trimethylbenzene	10.2	no limit	
						1,3,5-Trimethylbenzene	3.58	no limit	
						1-Methylnaphthalene	8.85	no limit	
						Chlorobenzene	0.32	1	
						Ethylbenzene	0.985	100	
						Isopropylbenzene	0.45	no limit	
						Total Xylenes	4.21	67	
						n-Butylbenzene	0.56	no limit	
						n-Propylbenzene	1.07	no limit	
						Naphthalene	17.3	100	
Air Vents	AOC-7-07-S1	3/21/02	TPHC, Lead VOC's	0203155-011A	8-8.5	sec-Butylbenzene	0.51	no limit	
						TPHC	57.23	10000	
						1,2,4-Trimethylbenzene	0.988	no limit	
						1,3,5-Trimethylbenzene	0.4	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Outside Hazardous Material Storage Area	AOC-7-07-S1 (cont.)	3/21/02	TPHC, Lead	0203155-011A	8-8.5	1-Methylnaphthalene	2.53	no limit	
						Total Xylenes	0.36	67	
						Naphthalene	0.38	100	
	AOC-7-08-S1	3/21/02	TPHC, PP + 40	0203155-012A	8-8.5	TPHC	46.44	10000	
						Arsenic	3.16	20	
						Chromium	4.81	20	
						Copper	16.9	600	
						Zinc	11.2	1500	
						Selenium	0.13	63	
	AOC-7-09-S1	3/21/02	TPHC, Lead VOC's	0203155-013A	8.5-9	TPHC	86.03	10000	
						Lead	61.8	400	
						1,2,4-Trimethylbenzene	1.28	no limit	
						1,3,5-Trimethylbenzene	0.33	no limit	
						Total Xylenes	0.44	67	
Outside Hazardous Material Storage Area and Air Vent	AOC-7-10-S1	3/21/02	TPHC, Lead VOC's	0203155-014A	9-9.5	TPHC	190.2	10000	
						Lead	11.7	400	
						1,2,4-Trimethylbenzene	13.7	no limit	
						1,3,5-Trimethylbenzene	5.8	no limit	
						Ethylbenzene	2.9	100	
						Total Xylenes	11.9	67	
						n-Propylbenzene	10.8	no limit	
Outside Hazardous Material Storage Area	AOC-7-11-S1	3/20/02	TPHC, Lead VOC's	0203155-015A	9.5-10	TPHC	285.4	10000	
						1,2,4-Trimethylbenzene	77.9	no limit	
						1,3,5-Trimethylbenzene	32.2	no limit	
						Ethylbenzene	10.3	100	
						Isopropylbenzene	5.4	no limit	
						Total Xylenes	46	67	
						n-Propylbenzene	9.27	no limit	
						sec-Butylbenzene	3.4	no limit	
Air Vents	AOC-10-01-S1	3/15/02	TPHC, PP + 40	0203111-011A	9.5-10	TPHC	173.9	10000	
						4,4'-DDD	0.0177	3	
						4,4'-DDT	0.054	2	
						Aroclor 1260	0.0963	no limit	
						Arsenic	2.79	20	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Air Vents	AOC-10-01-S1 (cont.)	3/15/02	TPHC, PP + 40	0203111-011A	9.5-10	Mercury	0.149	14	
						Cadmium	0.684	39	
						Chromium	13.8	20	
						Copper	35.8	600	
						Lead	42.4	400	
						Nickel	7.5	250	
						Zinc	47.6	1500	
						Benz(a)anthracene	0.5381	0.9	
						Benzo(b)fluoranthene	0.207	0.9	
						Fluoranthene	0.4243	100	
						Phenanthrene	0.255	no limit	
						Pyrene	0.4552	100	
						Cyanide	0.057	1100	
Interior Hazardous Material Storage Area	AOC-11-01-S1	3/13/02	TPHC, PP + 40	0203111-006A	9.5-10	TPHC	1253	10000	
						4,4'-DDD	6.4	3	X
						Aroclor 1260	0.325	no limit	
						Arsenic	4.82	20	
						Chromium	8.72	20	
						Copper	15.1	600	
						Zinc	13.2	1500	
						Selenium	0.474	63	
						Bis(2-ethylhexyl)phthalate	5.129	49	
						1,1-Dichloroethane	1.81	10	
						1,2,4-Trimethylbenzene	12.7	no limit	
						1,2-Dichlorobenzene	0.959	50	
						1,3,5-Trimethylbenzene	7.94	no limit	
						1,4-Dichlorobenzene	5.78	100	
						Benzene	1.28	1	X
						Chlorobenzene	13.1	1	X
						cis-1,2-Dichloroethene	1.14	1	X
						Ethylbenzene	3.03	100	
						Isopropylbenzene	4.24	no limit	
						Total Xylenes	19.909	67	
						n-Butylbenzene	2.85	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-01-S1 (cont.)	3/13/02	TPHC, PP + 40	0203111-006A	9.5-10	n-Propylbenzene	13.3	no limit	
						Naphthalene	4.83	100	
						sec-Butylbenzene	3.11	no limit	
						tert-Butylbenzene	0.48	no limit	
						Toluene	1.08	500	
						Cyanide	0.118	1100	
Interior Hazardous Material Storage Area and Dumpster	AOC-11-02-S1	3/13/02	TPHC, PP + 40	0203111-007A	9.5-10	TPHC	62.53	10000	
						4,4'-DDD	0.899	3	
						Aroclor 1260	0.12	no limit	
						Chromium	8.19	20	
						Copper	12	600	
						Zinc	11.6	1500	
						Selenium	0.1	63	
						Bis(2-ethylhexyl)phthalate	4.006	49	
						1,2,4-Trimethylbenzene	7.99	no limit	
						1,3,5-Trimethylbenzene	1.33	no limit	
						1,4-Dichlorobenzene	1.16	100	
						Benzene	0.19	1	
						Chlorobenzene	2.43	1	X
						Ethylbenzene	0.45	100	
Interior Hazardous Material Storage Area	AOC-11-04-S2	3/18/02	TPHC, PP + 40	0203111-010A	9.5-10	Isopropylbenzene	0.976	no limit	
						Total Xylenes	3.17	67	
						n-Butylbenzene	0.959	no limit	
						n-Propylbenzene	2.53	no limit	
						sec-Butylbenzene	1.27	no limit	
Interior Hazardous Material Storage Area	AOC-11-03-S1	3/14/02	TPHC, PP + 40	0203111-008A	4-4.5	TPHC	186.2	10000	
						4,4'-DDD	0.0417	3	
						Arsenic	16.9	20	
						Mercury	38.2	14	X
						Cadmium	1.09	39	
						Chromium	7.69	20	
						Copper	65.6	600	
						Lead	32.1	400	
						Nickel	18.7	250	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-03-S1 (cont.)	3/14/02	TPHC, PP + 40	0203111-008A	4-4.5	Zinc	86.2	1500	
						Selenium	1.34	63	
						Benz(a)anthracene	0.184	0.9	
						Benzo(b)fluoranthene	0.205	0.9	
						Chrysene	0.33	9	
						Fluoranthene	0.295	100	
						Phenanthrene	0.164	no limit	
						Pyrene	0.322	100	
						1,2,4-Trimethylbenzene	1.22	no limit	
						1,3,5-Trimethylbenzene	0.25	no limit	
						Chlorobenzene	0.4	1	
						Total Xylenes	0.66	67	
						n-Propylbenzene	0.53	no limit	
						Naphthalene	0.61	100	
						Cyanide	0.097	1100	
Interior Hazardous Material Storage Area and Pit	AOC-11-04-S1	3/15/02	TPHC, Lead VOC's	0203111-009A	6-6.5	TPHC	52.76	10000	
						Lead	83.1	400	
Interior Hazardous Material Storage Area	AOC-11-04-S2	3/15/02	TPHC, PP + 40	0203111-010A	9.5-10	TPHC	67.68	10000	
						4,4'-DDD	0.0127	3	
						Mercury	0.508	14	
						Chromium	36.8	20	X
						Copper	133	600	
						Nickel	9.56	250	
						Zinc	91.2	1500	
						Selenium	0.639	63	
	AOC-11-05-S1	3/19/02	TPHC, PP + 40	0203155-001A	10.5-11	TPHC	84.45	10000	
						Chromium	8.06	20	
						Copper	14	600	
						Zinc	14.7	1500	
Interior Hazardous Material Storage Area and Air Vent	AOC-11-06-S1	3/19/02	TPHC, PP + 40	0203155-002A	10.5-11	TPHC	76.07	10000	
						Arsenic	8.78	20	
						Mercury	0.496	14	
						Chromium	30.7	20	X

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area and Air Vent	AOC-11-06-S1 (cont.)	3/19/02	TPHC, PP + 40	0203155-002A	10.5-11	Copper	117	600	
						Lead	59.8	400	
						Nickel	8.27	250	
						Zinc	95.6	1500	
						Anthracene	0.3999	100	
						Benz(a)anthracene	0.7989	0.9	
						Benzo(a)pyrene	0.292	0.66	
						Benzo(b)fluoranthene	0.5037	0.9	
						Benzo(g,h,i)perylene	0.448	no limit	
						Benzo(k)fluoranthene	0.2199	0.99	
						Chrysene	0.8264	9	
						Fluoranthene	1.491	100	
						Ideno(1,2,3-cd)pyrene	0.339	0.9	
						Phenanthrene	1.389	no limit	
						Pyrene	1.559	100	
Interior Hazardous Material Storage Area	AOC-11-07-S1	3/19/02	TPHC, PP + 40	0203155-003A	10.5-11	TPHC	1532	10000	
						Arsenic	8.03	20	
						Chromium	19.4	20	
						Copper	141	600	
						Lead	248	400	
						Nickel	6.36	250	
						Zinc	152	1500	
						Anthracene	0.441	100	
						Benz(a)anthracene	1.857	0.9	X
						Benzo(a)pyrene	0.845	0.66	X
						Benzo(b)fluoranthene	1.523	0.9	X
						Benzo(g,h,i)perylene	0.9458	no limit	
						Benzo(k)fluoranthene	0.72	0.99	
						Bis(2-ethylhexyl)phthalate	3.936	1	X
						Chrysene	1.7998	9	
						Fluoranthene	3.89	100	
						Ideno(1,2,3-cd)pyrene	0.8977	0.9	
						Phenanthrene	1.074	no limit	
						Pyrene	3.786	100	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-08-S1	3/19/02	TPHC, Lead VOC's	0203155-004A	10-10.5	TPHC	77.19	10000	
						Chlorobenzene	0.935	1	
	AOC-11-09-S1	3/19/02	TPHC, Lead VOC's	0203155-005A	10-10.5	TPHC	21650	10000	X
						1,2,4-Trimethylbenzene	123	no limit	
						1,2-Dichlorobenzene	0.38	50	
						1,3,5-Trimethylbenzene	30.7	no limit	
						1,3-Dichlorobenzene	2.7	100	
						1,4-Dichlorobenzene	9.12	100	
						1-Methylnaphthalene	4.88	no limit	
						Chlorobenzene	27.6	1	X
						Isopropylbenzene	5.39	no limit	
						n-Butylbenzene	4.1	no limit	
						n-Propylbenzene	20.6	no limit	
						Naphthalene	1.23	100	
						sec-Butylbenzene	4.46	no limit	
						tert-Butylbenzene	0.71	no limit	
Interior Hazardous Material Storage Area and Air Vent	AOC-11-10-S1	3/19/02	TPHC, PP + 40	0203155-006A	10-10.5	TPHC	115.3	10000	
						Aroclor 1260	0.856	no limit	
						Arsenic	5.88	20	
						Chromium	12.8	20	
						Copper	22.1	600	
						Zinc	10.7	1500	
						Selenium	0.625	63	
						Phenolics, Total Recoverable	2.3	no limit	
Interior Hazardous Material Storage Area	AOC-11-11-S1	3/20/02	TPHC, Lead VOC's	0203155-007A	9.5-10	TPHC	10750	10000	X
						1,2,4-Trimethylbenzene	180	no limit	
						1,2-Dichlorobenzene	0.54	50	
						1,3,5-Trimethylbenzene	640	no limit	
						1,3-Dichlorobenzene	4.72	100	
						1,4-Dichlorobenzene	11.9	100	
						Benzene	0.38	1	
						Chlorobenzene	52.6	1	X
						Isopropylbenzene	8.61	no limit	
						n-Butylbenzene	6.32	no limit	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Interior Hazardous Material Storage Area	AOC-11-11-S1 (cont.)	3/20/02	TPHC, Lead VOC's	0203155-007A	9.5-10	Naphthalene	5.12	100	
						sec-Butylbenzene	8.47	no limit	
						tert-Butylbenzene	0.982	no limit	
Interior Hazardous Material Storage Area (Drum Storage Area) and Air Vent	AOC-11-12-S1	3/20/02	TPHC, PP+40 VOC's	0203155-008A	9.5-10	TPHC	42.33	10000	
						Arsenic	9.97	20	
						Chromium	2.86	20	
						Copper	8.17	600	
						Zinc	21.2	1500	
						Selenium	0.23	63	
						1,2,4-Trimethylbenzene	12.6	no limit	
						1,3,5-Trimethylbenzene	7.12	no limit	
						1,3-Dichlorobenzene	0.806	100	
						1,4-Dichlorobenzene	2.34	100	
						1-Methylnaphthalene	10.1	no limit	
						Chlorobenzene	6.63	1	X
						Isopropylbenzene	1.3	no limit	
						Total Xylenes	17.4	67	
						n-Butylbenzene	1.62	no limit	
						n-Propylbenzene	4.33	no limit	
						Naphthalene	6.92	100	
Underground Storage Tanks	PE1	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	5.24	400	
						TPHC	100	10000	
						Methylene Chloride	0.34 JB	1	
	PE2	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	5.61	400	
						TPHC	79.6	10000	
						Methylene Chloride	0.32 JB	1	
	PE3	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	7.73	400	
						TPHC	360	10000	
						Methylene Chloride	0.29 JB	1	
						Ethylbenzene	13.0	100	
						Total Xylenes	47.4	67	

Summary of Sampling Results

AREA OF CONCERN	SAMPLE ID#	SAMPLE DATE	COMPOUNDS ANALYZED	LAB ID#	DEPTH (feet)	COMPOUNDS DETECTED	CONCENTRATION (PPM)	NJDEP LIMIT	EXCEEDS LIMIT
Underground Storage Tanks	PE4	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	2.88	400	
						TPHC	79.8	10000	
						Methylene Chloride	0.34 JB	1	
	PE5	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	37.8	400	
						TPHC	56.7	10000	
						Methylene Chloride	0.48 JB	1	
	PE6	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	4.43	400	
						TPHC	69.2	10000	
						Methylene Chloride	0.33 JB	1	
	PE7	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	4.75	400	
						TPHC	180	10000	
						Methylene Chloride	0.32 JB	1	
	PE8	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	24.7	400	
						TPHC	77.9	10000	
						Methylene Chloride	0.36 JB	1	
	PE9	3/14/00	TPHC, Lead VOC's	10002812-000	7.5-8	Lead	15.0	400	
						TPHC	48.6	10000	
						Methylene Chloride	0.33 JB	1	
						Ethylbenzene	0.33 J	100	
						Total Xylenes	0.71	67	
	PE10	3/14/00	TPHC, Lead VOC's	10002812-001	7.5-8	Lead	8.89	400	
						TPHC	61.7	10000	
						Methylene Chloride	0.31 JB	1	
Groundwater	MW-1	6/11/04	VOC's	0406077-004A	6.85	1-3 Dichlorobenzene	0.149	0.6	
						1,4-Dichlorobenzene	0.287	0.075	X
						Chlorobenzene	0.996	0.05	X
						Total Xylenes	0.0925	1	
						Naphthalene	0.0577	0.3	
						Toluene	0.0691	1	
	MW-3	6/11/04	BN's	0406077-003A	6.37	1,2-Dichlorobenzene	0.09559	0.6	
						1,3-Dichlorobenzene	0.01093	0.6	
						1,4-Dichlorobenzene	0.03474	0.075	
						Naphthalene	0.00586	0.3	
	MW-4	6/11/04	Mercury	0406077-002A	5.87	Mercury	0.0018	0.002	