N00210.AR.001482
NSTC GREAT LAKES
5090.3a

45-DAY REPORT BUILDING 103 NS GREAT LAKES IL

6/2/2008

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty not to exceed $50,000.00 for the violation and an additional civil penalty not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license or other document filed, maintained, or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
45-Day Report

A. Site Identification

IEMA Incident # (6 digit): 971852 IEPA Generator # (10 digit): 0971255004

Site Name: Great Lakes Naval Training Center - Building 103

Site Address (Not a P.O. Box): Great Lakes Naval Training Center -HVAC Shop, Bldg. 103, 2703 Sheridan Rd.

City: Great Lakes County: Lake

B. Release Information

1. Will the owner/operator seek reimbursement from the Underground Storage Tank Fund? Yes ___ No X
2. Identify the material(s) released: Leaded gasoline, No. 2 diesel fuel, and kerosene
3. The material(s) released was (check all that apply):
   a. Petroleum X
   b. Nonpetroleum ___
4. Is this report intended to serve as the Corrective Action Completion Report? Yes X No ___

C. Early Action

1. What was the volume of backfill material excavated? 1,275 yds^3
2. What was the volume of native soil excavated? 0 yds^3
3. Was groundwater encountered at the site? Yes ___ No X
4. Did the groundwater exhibit a sheen? Yes ___ No ___ Not Applicable X
5. Was free product encountered? Yes X No ___
   If **Yes**, the owner/operator must submit a free product removal report.

D. Site Information

Provide the following:

1. Data on the nature and estimated quantity of the release

   The release consists of leaded gasoline, No. 2 diesel fuel, and kerosene. The quantity of gasoline, diesel, and kerosene released at the site is unknown. The nature of each contaminant is discussed below.

   Gasoline, diesel, and kerosene typically have a specific gravities (SG) of 0.72 to 0.76, 0.85, and 0.86, respectively, and water has an SG of 1.0; therefore, bulk gasoline, diesel, and kerosene will float on the surface of groundwater. Detection and recovery methods for bulk gasoline are thus conducted at the water table surface.

   Gasoline, diesel, and kerosene are a complex, homogenous mixture of several hundred organic compounds (hydrocarbons). The four major chemical groups of hydrocarbon compounds that compose gasoline, diesel, and kerosene are paraffins (alkanes), olefins (alkenes), naphthalenes (cyclohexanes and cyclopentanes), and aromatics (compounds with a benzene ring). Hydrocarbon and nonhydrocarbon additives are commonly blended with the base gasoline, diesel, and kerosene mixtures to improve the performance characteristics of the final product.

   Hydrocarbons are not generally considered to be readily soluble in water. The solubility of a gasoline mixture ranges from 55 to 217 milligrams per liter (mg/L). The mono-aromatics (low molecular weight aromatics)—that is, the benzene, toluene, ethylbenzene, and xylene isomers (ortho-, meta-, and para-xylenes)—are the most water-soluble components of a gasoline mixture. The solubilities of these compounds are 1,780; 515; 152 ; and 162 to 185 mg/L, respectively. Additionally, benzene is enriched by a factor of ten in the water-soluble fraction compared to its abundance in the gasoline mixture. The paraffin, olefin, and naphthalene groups are relatively soluble in water compared to aromatics.

   A gasoline, diesel, or kerosene mixture may exist in any of four phases in the subsurface: separate-phase liquid, vapor phase, dissolved or water phase, and adsorbed phase. The partitioning behavior of the bulk fluid influences the transport and fate of the substance in the subsurface. The extent to which the bulk fluid partitions into the various phases is controlled by the chemical and physical properties of the fluid. Additionally, environmental conditions such as soil structure, soil texture, soil organic carbon content, soil and groundwater temperature, and the presence of co-solvents in the water phase may influence the partitioning behavior.

   Bulk gasoline viscosities range from 0.5×10^{-2} to 0.65×10^{-2} poise at 60 °F, while water has a viscosity of 1.0×10^{-2} poise. Fluid mobility in the subsurface is affected by the fluid's viscosity. In general, under a constant set of subsurface conditions, a fluid with a relatively low viscosity tends to travel at a greater rate than a more viscous fluid.

2. Data from available sources or site investigations concerning the following factors:

   a. Surrounding populations

      The site property is located at Great Lakes Naval Training Center (NTC), Building 103, Great Lakes, Lake County, Illinois. The property is located in the southwest quarter of Section 4, Township 44 North, Range 12 East.

Land use in the area surrounding the Building 103 site consists of Great Lakes NTC property. The site is bordered by a building to the north, a street to the east, and a parking lot to the south and west. Figure A-1 in Appendix A is a site map of the Great Lakes NTC facility.

b. Water quality

According to Mr. Terry Aide, of the Great Lakes NTC, the NTC receives its water from Lake Michigan, and has its own intake point and water treatment plant on site.

No active private or community wells are located in the NTC. Thus, no active wells are located within 2,500 feet of the site.

c. Use and approximate locations of wells potentially affected by the release

A survey of community and private potable water supply wells was conducted to identify and locate all such wells within 2,500 feet of the underground storage tank (UST) system. The survey included contacting the Illinois State Water Survey (ISWS) and the Illinois State Geological Survey (ISGS). ISWS was contacted on April 13, 1998 and a water well report was requested. ISWS stated that they would not be generating the report until the end of June. Thus, in order to meet the IEPA deadline for this report, it was prepared without the ISWS information. ISGS did not identify any community or private potable water supply wells within a 200-foot radius of the UST systems. Figure A-2 in Appendix A shows the wells identified by ISGS in the vicinity of the site. Appendix B contains a copy of the ISGS water well reports for the site area.

d. Subsurface soil conditions

Tetra Tech EM Inc. (Tetra Tech) assessed the consistency of site geology with Circular 532, *Potential for Contamination of Shallow Aquifers in Illinois* by Berg, Kempton, and Cartwright (1984), and Plate 2 of Circular 532, "Potential for Contamination of Shallow Aquifers from Surface and Near Surface Waste Disposal" by Berg, Kempton, Vaiden, and Stecyk (1984).

Based on Plate 2 of Circular 532, soil beneath the Naval Training Center site is consistent with soil type E. Soil type E is uniform, relatively impermeable silty or clayey till at least 50 feet thick with no evidence of interbedded sand and gravel. This type of soil has the third lowest potential for aquifer contamination. Soils beneath the site consist mainly of light brown silty clay from about 0 to 12 feet below ground surface.

e. Location of subsurface sewers

Subsurface utilities at the site consist of a water supply line that runs east-west, south of the excavation area. The structures located on site are of slab construction (that is, they have no basements).

f. Climatological conditions

According to information provided by the Midwestern Climate Center in Champaign, Illinois, the area receives an annual precipitation mean amount of 34.20 inches. The

climate in the area is characterized as humid continental and has a mean January temperature of 19.3 °F and a mean July temperature of 71.2 °F.

g. Land use

The site property contains the Navy Public Works Center HVAC Shop (Building 103), which is a former gasoline station. The following USTs were removed from the site: three 10,000-gallon leaded gasoline USTs; one 12,500-gallon diesel UST; and one 1,200-gallon kerosene UST. The three leaded gasoline USTs and the one diesel UST were on the south side of Building 103 and the kerosene UST was on the north side of Building 103. The area surrounding the site consists of Great Lakes Naval Training Center property. Land use is industrial to the north, south, and west of the site, and Lake Michigan borders the site to the east.

3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site

Prior to removal of the USTs, a geophysical investigation was conducted at the site which indicated the possible presence of six USTs. The USTs had been abandoned in place prior to 1974. However, during UST removal activities, there were found to be only five USTs at the site. On October 7 and 8, 1997, the five USTs and a portion of their associated piping were removed from the site. All five USTs were in poor condition. The three gasoline USTs and the one diesel UST were on the south side of Building 103 and the kerosene UST was on the north side of Building 103. Sue Dwyer, of the Office of the State Fire Marshal, was present during the UST removal activities.

A total of 31 soil samples were collected from the walls and base of the excavations. The samples were submitted to Heritage Environmental Services Commercial Laboratory Operations in Indianapolis, Indiana for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA SW-846 Method 8240B and polynuclear aromatic hydrocarbon (PAH) constituents by EPA SW-846 Method 8310. The laboratory analytical results indicate that none of the soil samples collected from the UST excavation contained concentrations of BTEX and PAHs that exceed the Title 35 of the Illinois Administrative Code (IAC), Part 742, Tiered Approach to Corrective Action Objectives (TACO) Tier I soil remediation objectives. Thus, no further action is necessary. Table C-1 in Appendix C and Figure A-3 in Appendix A present analytical results and sampling locations. A copy of the laboratory analytical report is included in Appendix D.

Removal actions generated approximately 1,275 cubic yards of contaminated soil. Further excavation to the north of the easternmost gasoline UST was precluded by the presence of concrete footings associated with the historically significant building. In accordance with Title 35 of the IAC, Section 808, the Navy certified that the petroleum contaminated soil generated from UST removal actions is non-hazardous, non-special waste, and therefore, the subject waste can be characterized as ordinary municipal waste. The soil was transported to the Fire Fighting Training Unit (FFTU), located at the Naval Training Center, for treatment by ex-situ bioremediation in accordance with the IEPA approved work plan. Currently, petroleum-contaminated soils are undergoing remediation using an ex-situ bioremediation program utilizing horse manure, bio bulk agents including straw, and cultivated microbial populations together with nutrients applied through inoculation and irrigation procedures. The Navy selected to utilize the technology currently in use at their FFTU site to treat soil sourced from the other base locations, Buildings 11 and 103. A copy of the Navy Certification of Non-hazardous, Non-special Waste for Petroleum Contaminated Soil is in Appendix E.

A small amount of free product was discovered during UST removal activities, and pumped out along with the remaining contents of the USTs and disposed of as waste by Heritage Transport, Inc.

4. The results of the free product investigations

   See Section D, "Site Information," Item 3 above.

5. A discussion of the action taken to prevent further release of the regulated substance into the environment

   See Section D, "Site Information," Item 3 above.

6. A discussion of the action taken to mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures

   See Section D, "Site Information," Item 3 above.

7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code Section 731.162 or 732.202(b).

   See Section D, "Site Information," Item 3 above.

E. Supporting Documentation

Provide the following:

1. A site map to scale and oriented north showing

   a. UST(s) system(s) and excavation limits
   b. Product and dispenser lines
   c. Pumps and islands
   d. Underground utilities (sewer, gas, water, etc.)
   e. Nearby structures (buildings, roads, etc.)
   f. Soil boring(s) (if present)
   g. Monitoring well(s) and/or sumps (if present)
   h. Property boundaries
   I. Sample location points

   Figure A-3 in Appendix A contains the requested information.

2. An area map showing the site in relation to surrounding properties; this map should identify the facilities on the surrounding properties

   Figure A-1 in Appendix A is a site map of the Great Lakes NTC facility.

3. A cross section, to scale, with dimensions showing the UST(s) and the excavation

   Figure A-4 in Appendix A shows cross sections.

4. Analytical/screening results in tabular format

Table C-1 in Appendix C contain the laboratory analytical results.

5. UST(s) information in a tabular format and that at a minimum includes

   a. The total number of USTs on site
   b. The volume of the UST(s) (in gallons)
   c. The material stored in the UST(s)
   d. Identification of UST system(s) that had a release
   e. Identification of UST system(s) that were repaired, removed, or abandoned-in-place

   Table C-2 in Appendix C provides the requested information.

6. A copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place, or other OSFM permits or notifications

   The Office of the State Fire Marshal (OSFM) Permit to Remove is included in Appendix F. A copy of the UST Certificate of Destruction in included in Appendix G.

7. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed

   Five USTs were removed from the north and south sides of Building 103 at the Naval Training Center on October 7 and 8, 1997. Any liquids remaining in the USTs were pumped out by Heritage Transport, Inc. and transported off-site to CID RDF in Calumet City, Illinois. The USTs were inerted, cut open, and pressure washed. The rinsate was removed and drummed for disposal. The drums were transported off-site by Heritage Transport, Inc. to their Lemont, Illinois facility.

8. Photographs of UST removal activities and the excavation

   Photographs of UST removal activities are included in Appendix H.

9. Copies of manifests for soil and groundwater transported off site

   Soil was transported to the Great Lakes NTC FFTU for treatment by ex-situ bioremediation in accordance with the IEPA approved work plan. In accordance with Title 35 of the Illinois Administrative Code (IAC), Section 808, the Navy certified that the petroleum contaminated soil generated from UST removal actions is non-hazardous, non-special waste, and therefore, the subject waste can be characterized as ordinary municipal waste. Currently, petroleum-contaminated soils are undergoing remediation using an ex-situ bioremediation program utilizing horse manure, bio bulk agents including straw, and cultivated microbial populations together with nutrients applied through inoculation and irrigation procedures. Manifests were not used, however, Bills of Lading were used to track the soil transport. Copies of the Bills of Lading are provided in Appendix I. The liquids recovered from the Building 103 USTs were commingled with the liquids recovered from the Building 11 UST. The total volume of liquids removed was approximately 43,342 gallons. A copy of the manifests for the liquid removed from the UST and transported off site are also provided in Appendix I.

F. Signatures

I certify under penalty of law that this report, supporting documents and all attachments were prepared under my direction or supervision. To the best of my knowledge and belief, this report, supporting documents and all attachments are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner

Name: Mark Schultz

Title: Head, NTC GL Environmental Department

Address: 201 Decatur Avenue

Great Lakes, IL 60088-5600

Phone: (847) 688-5999, ext. 40

Signature: Mark Schultz

Date: 6-2-98

Operator

Name: Mark Schultz

Title: Head, NTC GL Environmental Department

Address: 201 Decatur Avenue

Great Lakes, IL 60088-5600

Phone: (847) 688-5999, ext. 40

Signature: Mark Schultz

Date: 6-2-98

Consultant

Firm: Tetra Tech EM Inc.

Contact: Carol Nissen

Title: Project Manager

Address: 200 East Randolph Drive, Suite 4700

Chicago, IL 60601

Phone: (312) 856-8700

Signature: Carol Nissen

Date: 6/4/98

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Professional Engineer Certification

A. Site Identification

IEMA Incident # (6 digit): 971852 IEPA Generator # (10 digit): 0971255004

Site Name: Great Lakes Naval Training Center - Building 103

Site Address (Not a P.O. Box): Great Lakes Naval Training Center-HVAC Shop, Bldg. 103, 2703 Sheridan

City: Great Lakes County: Lake

B. Certification

The release from the underground storage tank system(s) identified by the above referenced incident number at the above referneced site has been remediated in accordance with 35 Ill. Adm. Code, Part ☐ 731 or ☒ 732 and other applicable rules and regulations. The remedial activities are described in the Corrective Action Completion Report dated 6/4/98. The remediation has achieved the objectives set forth by the Agency in:

35 Ill. Adm. Code Part 742	X
Site Specific Cleanup Objectives approved by the Agency in the letter dated _____	
Other (specify) _____	

I certify under penalty of law that the Corrective Action Completion Report, supporting documents and all attachments were prepared under my direction or supervision or were reviewed by me. To the best of my knowledge and belief, the attached Corrective Action Completion Report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the fine and imprisonment for knowing violations.

Professional Engineer

Name: Carol Nissen

Firm: Tetra Tech EM Inc.

Address: 200 East Randolph Dr., Ste. 4700
Chicago, IL 60601

Phone: (312) 856-8700

Ill. Registration No.: 0062-052115

License Expiration Date: 11/30/99

Signature: Carol Nissen

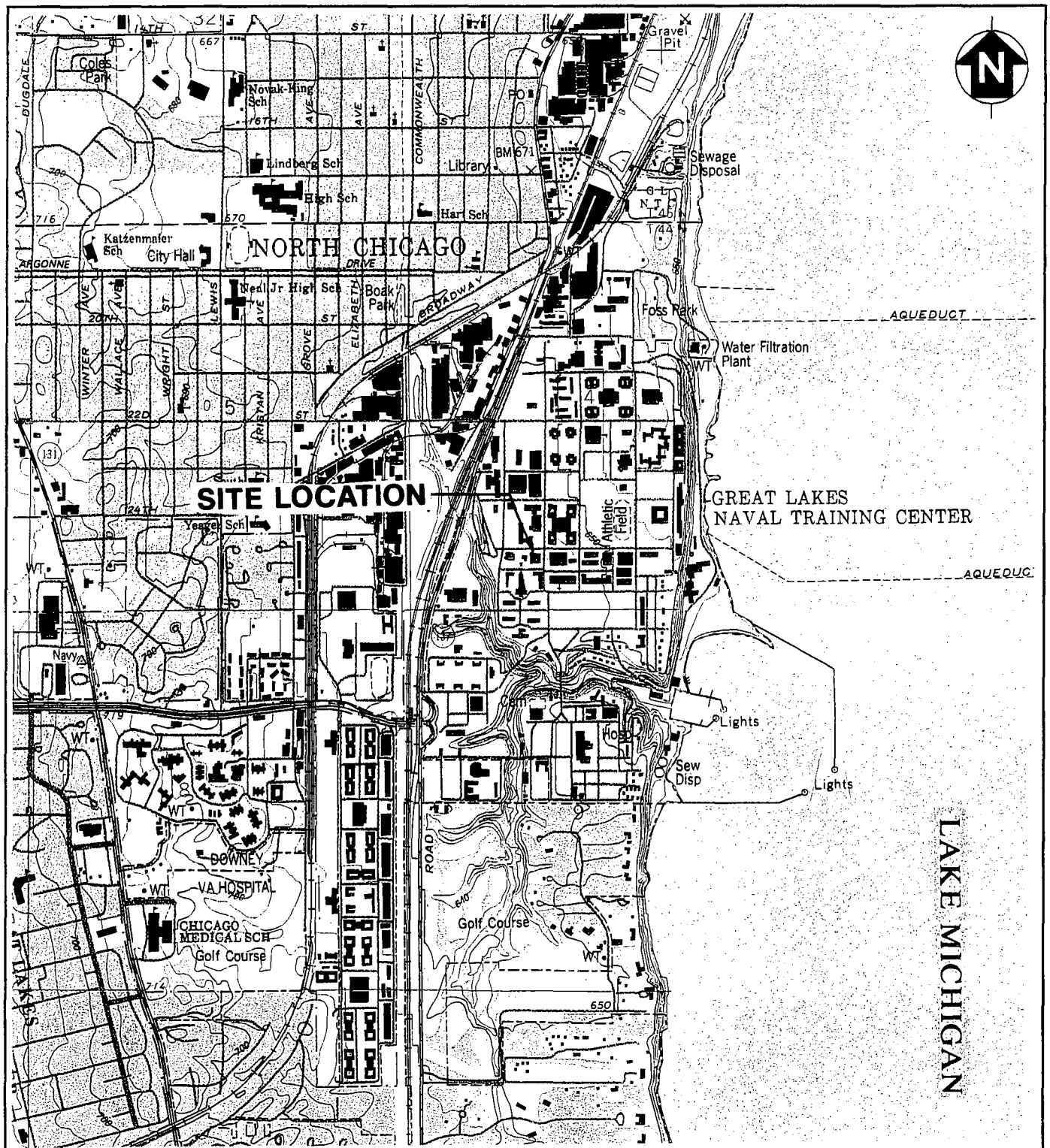
P.E. Seal

IL 532 2289

APPENDIX A

FIGURES

(Four Pages)



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

Quadrangle Location

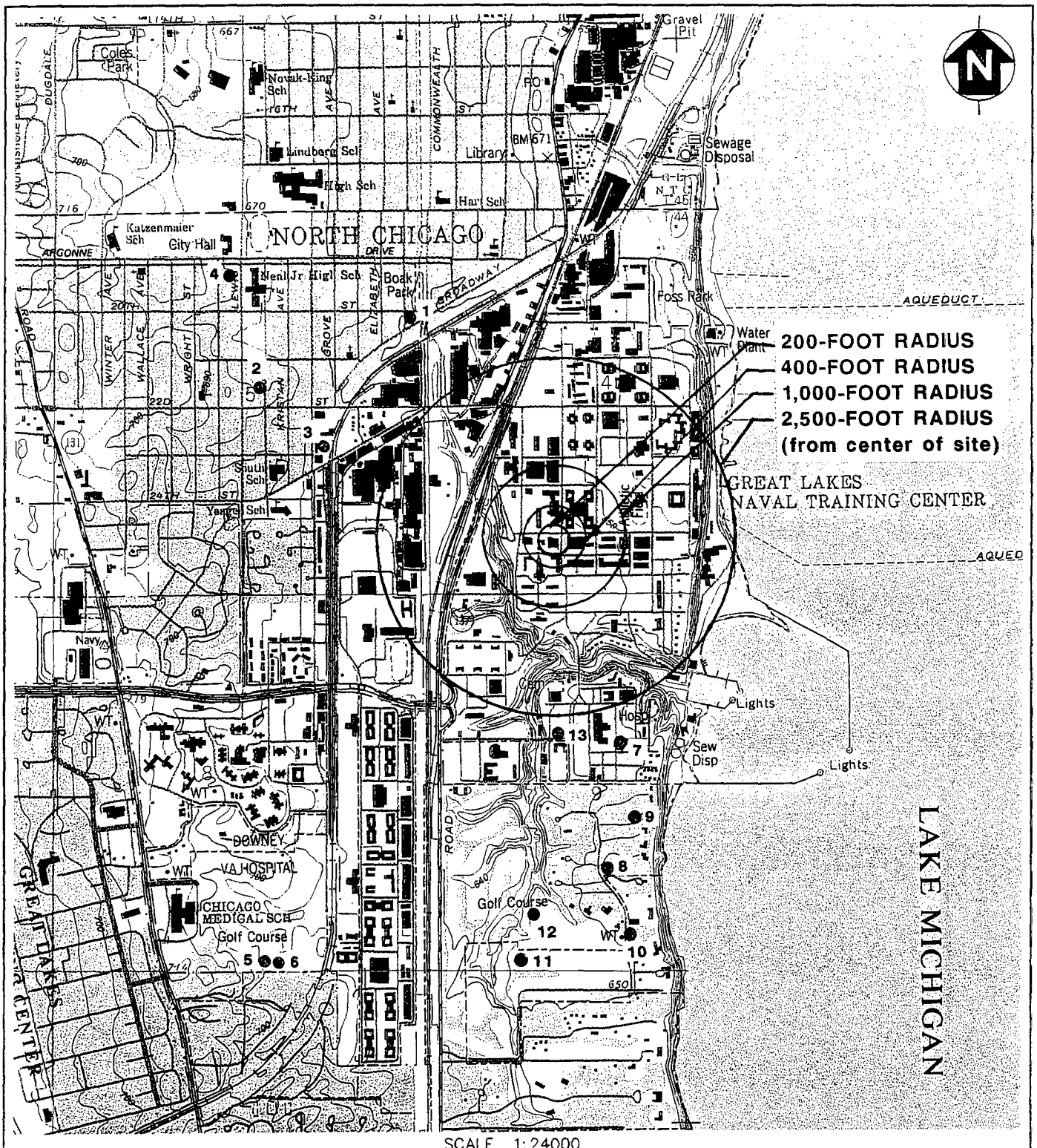
GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

FIGURE A-1

SITE LOCATION – BUILDING 103

Tetra Tech EM Inc.

SOURCE: MODIFIED FROM USGS, WAUKEGAN, ILLINOIS, QUADRANGLE, 1993



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

LEGEND

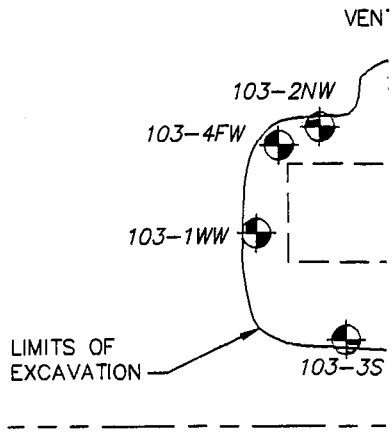
● = ISGS Water Well

SOURCE: MODIFIED FROM USGS, WAUKEGAN, ILLINOIS, QUADRANGLE, 1993

GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

FIGURE A-2
BUILDING 103
WATER WELL LOCATION MAP

Tetra Tech EM Inc.



LEGEND

103-9NW — SOIL SAMPLING LOCATION

PRODUCT AND DISPENSER LINES

10' 20'
= 20'

GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

FIGURE A-3
SITE LAYOUT – BUILDING 103
AND SOIL SAMPLING LOCATONS

Tetra Tech EM Inc.

SOURCE: MODIFIED FROM

GLNTC-SITE.DWG – 05/27/98 – RAO – 001-044912

ERTIFICATE SUMMARY

Service L	Received	Lab ID
HERITAGE ENV[illegible] [illegible]RVICES, INC. COMMERCIAL LABORA[illegible] [illegible]ERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422959
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 10:40

Report To

HERITAGE ENVIRONMENTAL SERVICES
KEVIN REINHARD
15330 CANAL BANK RD.
LEMONT, IL 60439

Bill To

HERITAGE ENVIRONMENTAL SERVICES
GLEN BORESI
1319 MARQUETTE DRIVE
ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-6NW @ 8'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102197	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102197	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102197	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102197	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102197	116		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102197	137		% Rec
SW846-8240B	0	TOLUENE-D8	102197	111		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240. [illegible]NLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422958

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422958
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 09:25

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-5FW @ 14'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102197	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102197	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102197	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102197	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102197	111		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102197	132		% Rec
SW846-8240B	0	TOLUENE-D8	102197	109		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422957

SW846-8240B.0 MS and MSD used as reanalysis.
SW846-8240B.0 BETX ONLY

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422957
	Complete	PO Number
	30-OCT-97	79487
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	31-OCT-97	10-OCT-97 09:20

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-4FW @ 14'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	101797	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	101797	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	101797	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	101797	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102197	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102197	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102197	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102197	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102197	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102197	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102197	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102197	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102197	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102197	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102197	BDL	2	ug/kg
SW846-8310	0	PYRENE	102197	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	101797	105		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	101797	119		% Rec
SW846-8240B	0	TOLUENE-D8	101797	110		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102197	120		% Rec

Sample Comments

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422956

SW846-8240B.0 non-target compounds.
SW846-8240B.0 1:5 dilution
SW846-8240B.0 BETX ONLY

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422940
	Complete 30-OCT-97	PO Number 79487
	Printed 31-OCT-97	Sampled 10-OCT-97 09:15

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-1WW @ 10'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	101797	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	101797	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	101797	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	101797	20	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102197	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102197	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102197	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102197	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102197	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102197	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102197	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102197	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102197	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102197	1100	4	ug/kg
SW846-8310	0	PHENANTHRENE	102197	BDL	2	ug/kg
SW846-8310	0	PYRENE	102197	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	101797	110		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	101797	119		% Rec
SW846-8240B	0	TOLUENE-D8	101797	111		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102197	110		% Rec

Sample Comments

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422940

SW846-8240B.0 BETX ONLY

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422956
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 09:35

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-3SW @ 8'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	101797	BDL	10	ug/kg
SW846-8240B	0	ETHYL BENZENE	101797	BDL	25	ug/kg
SW846-8240B	0	TOLUENE	101797	BDL	25	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	101797	BDL	25	ug/kg
SW846-8310	0	ACENAPHTHENE	102197	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102197	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102197	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102197	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102197	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102197	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102197	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102197	670	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102197	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102197	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102197	BDL	2	ug/kg
SW846-8310	0	PYRENE	102197	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	101797	116		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	101797	116		% Rec
SW846-8240B	0	TOLUENE-D8	101797	111		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102197	140		% Rec

Sample Comments

SW846-8240B.0 Unable to analyze sample at lower dilution due to high concentration of

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422955

SW846-8240B.0 BETX ONLY

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422955
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 09:30

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-2NW @ 9'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	101797	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	101797	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	101797	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	101797	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102197	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102197	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102197	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102197	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102197	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102197	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102197	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102197	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102197	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102197	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102197	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102197	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102197	BDL	2	ug/kg
SW846-8310	0	PYRENE	102197	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	101797	110		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	101797	116		% Rec
SW846-8240B	0	TOLUENE-D8	101797	107		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102197	96		% Rec

Sample Comments

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

APPENDIX B

ISGS WATER WELL REPORTS

(Eight Sheets)

TABLE C-2

SUMMARY OF UST INFORMATION

UST Characteristic	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5
Volume of UST	10,000 gallons	10,000 gallons	10,000 gallons	12,500 gallons	1,200 gallons
Stored material	Leaded Gasoline	Leaded Gasoline	Leaded Gasoline	No. 2 Diesel	Kerosene
Had a release	Yes	Yes	Yes	Yes	Yes
UST repaired, removed, or abandoned in-place	Removed	Removed	Removed	Removed	Removed
OSFM Permit to remove	See Appendix F	See Appendix F	See Appendix F	See Appendix F	See Appendix F

TABLE C-1 (Cont.)

Parameter	103-K3NW 5' bgs	103-K4SW 6' bgs	103-K5EW 7' bgs	103-K6WW 5' bgs	Tier I, Class I Cleanup Objective	Tier I, ClassII Cleanup Objective	Tier I Ingestion Exposure Route for Soil Cleanup Objective	Tier I Inhalation Exposure Route for Soil Cleanup Objective
Benzene	BDL	BDL	BDL	BDL	0.03	0.17	22	0.8
Toluene	BDL	BDL	BDL	BDL	12	29	16,000	650
Ethylbenzene	BDL	BDL	BDL	BDL	13	19	7,800	400
Total Xylenes	0.038	BDL	BDL	BDL	150	150	160,000	410
Acenaphthene	0.055	BDL	BDL	BDL	570	2,900	4,700	NE
Acenaphthylene	BDL	BDL	0.018	BDL	NE	NE	NE	NE
Anthracene	BDL	BDL	BDL	BDL	12,000	59,000	23,000	NE
Benzo(a)anthracene	BDL	BDL	BDL	BDL	2	8	0.9	NE
Benzo(a)pyrene	BDL	BDL	BDL	BDL	8	82	0.09	NE
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	5	25	0.9	NE
Benzo(g,h,i)perylene	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	49	250	9	NE
Chrysene	BDL	BDL	BDL	BDL	160	800	88	NE
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	2	7.6	0.09	NE
Fluoranthene	BDL	BDL	BDL	BDL	4,300	21,000	3,100	NE
Fluorene	0.40	BDL	BDL	1.4(E), 1.4(D)	560	2,800	3,100	NE
Indeno(1,2,3-c,d)pyrene	BDL	BDL	0.0054	BDL	14	69	0.9	NE
Naphthalene	0.054	BDL	0.062	0.46, 0.43(D)	84	420	3,100	NE
Phenanthrene	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Pyrene	BDL	BDL	BDL	BDL	4,200	21,000	2,300	NE

Notes:

All values given in milligrams per kilogram

BDL = Below detection limit
bgs = Below ground surface
PAH = Polynuclear aromatic hydrocarbon
NE = Not established
E = Value is estimated or exceeds calibration range
D = Dilution

[b] Bolded results exceed IEPA cleanup objectives.

[c] IEPA cleanup objectives are specified in Title 35 of the Illinois Administrative Code Part 742, "Tiered Approach to Corrective Action Objectives (TACO)."

TABLE C-1 (Cont.)

Parameter	103-19FE 12' bgs	103-20SW 9' bgs	103-21NW 7' bgs	103-22FE 12' bgs	103-23SW 7' bgs	103-24FE 12' bgs	103-25EW 8' bgs	103-K1FN 7' bgs	103-K2FS 7' bgs	Tier I, Class I Cleanup Objective	Tier I, ClassII Cleanup Objective	Tier I Ingestion Exposure Route Cleanup Objective	Tier I Inhalation Exposure Route Cleanup Objective
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.17	22	0.8
Toluene	BDL	BDL	BDL	0.014	BDL	BDL	BDL	BDL	BDL	12	29	16,000	650
Ethylbenzene	BDL	BDL	BDL	0.024	BDL	BDL	BDL	BDL	BDL	13	19	7,800	400
Total Xylenes	BDL	BDL	BDL	0.16	0.36	BDL	BDL	BDL	BDL	150	150	160,000	410
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.014	570	2,900	4,700	NE
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12,000	59,000	23,000	NE
Benzo(a)anthracene	BDL	BDL	BDL	BDL	0.058	BDL	BDL	BDL	BDL	2	8	0.9	NE
Benzo(a)pyrene	BDL	BDL	BDL	0.034	0.074	BDL	BDL	BDL	BDL	8	82	0.09	NE
Benzo(b)fluoranthene	BDL	BDL	BDL	0.015	0.041	BDL	BDL	BDL	BDL	5	25	0.9	NE
Benzo(g,h,i)perylene	BDL	BDL	BDL	0.02	0.042	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Benzo(k)fluoranthene	BDL	BDL	BDL	0.01	0.034	BDL	BDL	BDL	BDL	49	250	9	NE
Chrysene	0.0065	BDL	BDL	0.22	0.052	BDL	BDL	BDL	BDL	160	800	88	NE
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	7.6	0.09	NE
Fluoranthene	BDL	BDL	BDL	0.063	0.18	BDL	BDL	BDL	BDL	4,300	21,000	3,100	NE
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.014	0.018	560	2,800	3,100	NE
Indeno(1,2,3-c,d)pyrene	BDL	BDL	BDL	0.024	0.052	BDL	BDL	BDL	BDL	14	69	0.9	NE
Naphthalene	BDL	BDL	BDL	0.19	0.078	BDL	BDL	BDL	0.0096	84	420	3,100	NE
Phenanthrene	0.0046	BDL	BDL	BDL	BDL	0.012	BDL	BDL	BDL	NE	NE	NE	NE
Pyrene	0.0092	BDL	BDL	0.045	0.098	BDL	BDL	BDL	BDL	4,200	21,000	2,300	NE

TABLE C-1 (Cont.)

Parameter	103-10FM 12' bgs	103-11SW 9' bgs	103-12NW 9' bgs	103-13FM 12' bgs	103-14SW 8' bgs	103-15NW 8' bgs	103-16FM 12' bgs	103-17SW 9' bgs	103-18NW 8' bgs	Tier I, Class I Cleanup Objective	Tier I, ClassII Cleanup Objective	Tier I Ingestion Exposure Route Cleanup Objective	Tier I Inhalation Exposure Route Cleanup Objective
Benzene	BDL	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.17	22	0.8
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	29	16,000	650
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	19	7,800	400
Total Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	150	150	160,000	410
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	570	2,900	4,700	NE
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12,000	59,000	23,000	NE
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	8	0.9	NE
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	82	0.09	NE
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	25	0.9	NE
Benzo(g,h,i)perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	49	250	9	NE
Chrysene	BDL	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	160	800	88	NE
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	7.6	0.09	NE
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,300	21,000	3,100	NE
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560	2,800	3,100	NE
Indeno(1,2,3-c,d)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	69	0.9	NE
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	84	420	3,100	NE
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,200	21,000	2,300	NE

TABLE C-1

GREAT LAKES NAVAL TRAINING CENTER BUILDING 103
SUMMARY OF SOIL ANALYTICAL RESULTS
OCTOBER 7 AND 8, 1997

Parameter	103-1WW 10' bgs	103-2NW 9' bgs	103-3SW 8' bgs	103-4FW 14' bgs	103-5FW 14' bgs	103-6NW 8' bgs	103-7FM 12' bgs	103-8SW 9' bgs	103-9NW 8' bgs	Tier I, Class I Cleanup Objective	Tier I, ClassII Cleanup Objective	Tier I Ingestion Exposure Route for Soil Cleanup Objective	Tier I Inhalation Exposure Route for Soil Cleanup Objective
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.17	22	0.8
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	29	16,000	650
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	19	7,800	400
Total Xylenes	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	150	150	160,000	410
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	570	2,900	4,700	NE
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12,000	59,000	23,000	NE
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	8	0.9	NE
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	82	0.09	NE
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	25	0.9	NE
Benzo(g,h,i)perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	49	250	9	NE
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	160	800	88	NE
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	7.6	0.09	NE
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,300	21,000	3,100	NE
Fluorene	BDL	BDL	0.67	BDL	BDL	BDL	BDL	BDL	BDL	560	2,800	3,100	NE
Indeno(1,2,3-c,d)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	69	0.9	NE
Naphthalene	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	84	420	3,100	NE
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NE	NE	NE	NE
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,200	21,000	2,300	NE

APPENDIX C

TABLES

(Five Pages)

Lake Hansen Construction
Status: WATER SE Elev: 0
permit: 47611 permit date: 05/24/76 comp. date: 06/25/79
Lambert X: 3449423 Lambert Y: 3387755 td: 184
producing formation: td formation:
latitude: 42.330355 longitude: 87.831599
Water from rock at depth 136 to 184 ft.
Screen: Diam. 0 in. Length: 0 ft. Slot: 0
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	GALV #15	0	0

Size hole below casing: 5 in.
Static level 110 ft. below casing top which is 1 ft. above grnd level.
Pumping level 160 ft. when pumping at 5 gpm for 2 hours.

Formations Passed Through	Thickness	Bottom
brown clay	10	10
sand & clay	90	100
blue clay	36	136
rock	48	184

120970177900 American Steel & Wire 33-45N-12E
Lake 1
Status: WATER NW SE NE Elev: 595
permit: 0 permit date: comp. date:
Lambert X: 3449694 Lambert Y: 3390056 td: 2193
producing formation: td formation:
latitude: 42.336788 longitude: 87.830189

120970178000 American Steel & Wire 33-45N-12E
Lake 2
Status: WATER Elev: 597
permit: 0 permit date: comp. date:
Lambert X: 3448103 Lambert Y: 3389050 td: 2058
producing formation: td formation:
latitude: 42.333987 longitude: 87.836336

120970178200 American Steel & Wire 33-45N-12E
Lake 4
Status: WATER NE NE NE Elev: 597
permit: 0 permit date: comp. date:
Lambert X: 3450352 Lambert Y: 3391377 td: 2035
producing formation: td formation:
latitude: 42.340282 longitude: 87.827830

Size hole below casing: 6 in.
Static level 96 ft. below casing top which is 1 ft. above grnd level.
Pumping level 96 ft. when pumping at 32 gpm for 1 hours.

Formations Passed Through	Thickness	Bottom
yellow clay	17	17
hardpan	94	111
sandy clay	13	124
gravel	7	131
hardpan	26	157
gravel	3	160
hardpan	5	165
gravel	3	168
limestone	43	211

120970177700 Fulton W J Eng Co 32-45N-12E
Lake Weber Wm H
Status: WATER 800 SL 250 WL NE Elev: 0
permit: 0 permit date: comp. date: 01/01/40
Lambert X: 3443085 Lambert Y: 3389790 td: 189
producing formation: td formation:
latitude: 42.336277 longitude: 87.854913

120973106400 Gaffke, George E. 33-45N-12E
Lake City Ventures
Status: WATER SW SE NW Elev: 0
permit: 003061 permit date: 06/22/88 comp. date: 06/22/89
Lambert X: 3447089 Lambert Y: 3389373 td: 205
producing formation: td formation:
latitude: 42.334927 longitude: 87.840078
Water from limestone at depth 143 to 205 ft.
Screen: Diam. in. Length: 0 ft. Slot:
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	PVC	-1	124
5	BLACK STEEL	124	144

Size hole below casing: 5 in.
Static level 36 ft. below casing top which is 1 ft. above grnd level.
Pumping level 0 ft. when pumping at 0 gpm for 0 hours.

Formations Passed Through	Thickness	Bottom
brown clay	12	12
blue clay	18	30
sand & gravel	2	32
blue clay	88	120
gravel w/clay	10	130
limestone	10	140
broken limestone	3	143
limestone	62	205

120970266400 IL Div. of Hwys. 33-45N-12E
Lake Fa 42 Bridge B-21
Status: ENG NE NE Elev: 646GL
permit: 0 permit date: comp. date: 09/01/60
Lambert X: 3450028 Lambert Y: 3391045 td: 44
producing formation: td formation:
latitude: 42.339384 longitude: 87.829055

120970266300 IL Div. of Hwys. 33-45N-12E
Lake Fa 42 Bridge B-22
Status: ENG SWc NE NE Elev: 647GL
permit: 0 permit date: comp. date: 09/01/60
Lambert X: 3447761 Lambert Y: 3388724 td: 45
producing formation: td formation:
latitude: 42.339384 longitude: 87.829055

120973408000 Gross, Eugene J. 33-45N-12E

producing formation: td formation:
latitude: 42.299147 longitude: 87.836491

11 120970061300 Boysen, Henry, Jr. 9-44N-12E
Lake Shore Acres C Club 3
Status: WATER SE SW SW Elev: 0
permit: 0 permit date: comp. date: 10/01/69
Lambert X: 3446609 Lambert Y: 3376121 td: 272
producing formation: td formation:
latitude: 42.298453 longitude: 87.842779

12 120970384600 Boysen, Henry, Jr. 9-44N-12E
Lake Taylor Thomas A
Status: WATER 800 SL 2700 EL Elev: 0
permit: 0 permit date: comp. date: 12/01/72
Lambert X: 3446621 Lambert Y: 3376594 td: 195
producing formation: td formation:
latitude: 42.299755 longitude: 87.842681

13 120972619000 Lichter, John P. 9-44N-12E
Lake The Burrows Co
Status: WATER 150 NL 325 WL SE NW Elev: 0
permit: 0 permit date: comp. date: 06/01/78
Lambert X: 3447219 Lambert Y: 3379583 td: 145
producing formation: td formation:
latitude: 42.311608 longitude: 87.845136

120970371700 Boysen, Henry, Jr. 17-44N-12E
Lake Smith Geo
Status: WATER 75 NL 1220 WL NW NE Elev: 0
permit: 0 permit date: comp. date: 08/01/72
Lambert X: 3444206 Lambert Y: 3375696 td: 215
producing formation: td formation:
latitude: 42.297403 longitude: 87.851701

120970074600 Brackett, B. 32-45N-12E
Lake Ball A L 1
Status: WATER Elev: 0
permit: 0 permit date: comp. date: 01/01/42
Lambert X: 3442846 Lambert Y: 3388986 td: 186
producing formation: td formation:
latitude: 42.334074 longitude: 87.855854

120970177500 Ausherman, Isaac 32-45N-12E
Lake North Shore Cemetery
Status: WATER Elev: 0
permit: 0 permit date: comp. date:
Lambert X: 3442846 Lambert Y: 3388986 td: 368
producing formation: td formation:
latitude: 42.334074 longitude: 87.855854

120972844200 Hoover, Lonny R. 32-45N-12E
Lake Waukegan Park District
Status: WATER SE NW NE Elev: 0
permit: 125791 permit date: 08/05/86 comp. date: 10/09/86
Lambert X: 3443807 Lambert Y: 3390640 td: 211
producing formation: td formation:
latitude: 42.338582 longitude: 87.852176
Water from limestone at depth 0 to 0 ft.
Screen: Diam. in. Length: 0 ft. Slot:
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
6	BLACK T&C	0	168

producing formation: td formation:
latitude: 42.298527 longitude: 87.854995
Water from sand at depth 105 to 108 ft.
Screen: Diam. 5 in. Length: 3 ft. Slot: 15
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	ASTM A-120 T/C 15#	0	0

Size hole below casing: 5 in.
Static level 60 ft. below casing top which is 1 ft. above grnd level.
Pumping level 0 ft. when pumping at 12 gpm for 2 hours.

Formations Passed Through	Thickness	Bottom
top soil & fill	3	3
yellow clay	16	19
blue clay	47	66
hardpan	4	70
blue clay	6	76
med gravel sand	2	78
blue clay	17	95
med gravel sand	10	105
sand	3	108

7 120972477400 Raymond Concrete Co 9-44N-12E
Lake 800 Bed Hospital B-8
Status: ENG NE SE NW Elev: 922GL
permit: 0 permit date: comp. date: 07/01/51
Lambert X: 3447886 Lambert Y: 3379410 td: 70
producing formation: td formation:
latitude: 42.307448 longitude: 87.837856

8 120972729600 Gaffke, George E. 9-44N-12E
Lake Busch, Paul
Status: WATER 100 NL 200 EL SE NE SW Elev: 0
permit: 117775 permit date: 05/10/85 comp. date: 06/21/85
Lambert X: 3448039 Lambert Y: 3377671 td: 158
producing formation: td formation:
latitude: 42.302648 longitude: 87.837414
Water from sand & gravel at depth 151 to 158 ft.
Screen: Diam. 5 in. Length: 3 ft. Slot: 10
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	PVC	-2	156

Size hole below casing: 5 in.
Static level 71 ft. below casing top which is 2 ft. above grnd level.
Pumping level 0 ft. when pumping at 10 gpm for 0 hours.

Formations Passed Through	Thickness	Bottom
brown clay	10	10
blue clay	14	24
sand & fine gravel	3	27
blue clay	111	138
blue clay & gravel	11	149
blue clay	2	151
sand & gravel	7	158

9 120972534900 Boysen, Henry, Jr. 9-44N-12E
Lake Nagel Karl
Status: WATER 250 NL 200 WL SE Elev: 0
permit: 0 permit date: comp. date: 05/01/77
Lambert X: 3448432 Lambert Y: 3378179 td: 187
producing formation: td formation:
latitude: 42.311336 longitude: 87.845599

10 120972451100 Boysen, Henry, Jr. 9-44N-12E
Lake Sentman Fred
Status: WATER 600 SL 600 EL SW SW SE Elev: 0
permit: 0 permit date: comp. date: 01/01/75
Lambert X: 3448316 Lambert Y: 3376404 td: 167

Status: WATER 1500 NL 200 EL NE Elev: 0
permit: 0 permit date: comp. date: 12/01/70
Lambert X: 3445311 Lambert Y: 3384905 td: 1276
producing formation: td formation:
latitude: 42.322711 longitude: 87.846980

3 120970076800 Wertz, C. L. 5-44N-12E
Lake Neal Arthur
Status: WATER SE NW SE Elev: 0
permit: 0 permit date: comp. date: 01/01/42
Lambert X: 3443892 Lambert Y: 3382695 td: 183
producing formation: td formation:
latitude: 42.316695 longitude: 87.852395

4 120973380600 Hoover, Lonny R. 5-44N-12E
Lake Peterson, Ernie Plumbing, Inc.
Status: WATER 300 SL 150 EL NE NE NW Elev: 0
permit: 98171 permit date: 01/19/81 comp. date: 07/29/81
Lambert X: 3442731 Lambert Y: 3385995 td: 242
producing formation: td formation:
latitude: 42.325842 longitude: 87.856482
Water from limestone at depth 166 to 242 ft.
Screen: Diam. 0 in. Length: 0 ft. Slot: 0
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	ASTM A-53 T&C 15#/FT	0	166

Size hole below casing: 5 in.
Static level 80 ft. below casing top which is 1 ft. above grnd level.
Pumping level 0 ft. when pumping at 4 gpm for 2 hours.

Formations Passed Through	Thickness	Bottom
clay	17	17
gravel	3	20
clay	28	48
hardpan	66	114
clay	23	137
hardpan	29	166
limestone	76	242

5 120972974000 Boyce, Kenneth D. 8-44N-12E
Lake Craft Construction
Status: WATER SW SW SE Elev: 0
permit: 133241 permit date: 07/06/87 comp. date: 07/08/87
Lambert X: 3443311 Lambert Y: 3376088 td: 75
producing formation: td formation:
latitude: 42.298527 longitude: 87.854995
Water from sand at depth 72 to 75 ft.
Screen: Diam. 5 in. Length: 3 ft. Slot: 10
Casing and Liner Pipe -

Diam. (in.)	Kind and Weight	From(ft)	To(ft)
5	ASTM A-120 T/C 15#	0	72

Size hole below casing: 5 in.
Static level 52 ft. below casing top which is 1 ft. above grnd level.
Pumping level 52 ft. when pumping at 12 gpm for 2 hours.

Formations Passed Through	Thickness	Bottom
fill & black dirt	3	3
yellow clay	16	19
blue clay	47	66
gravel	2	68
blue clay	4	72
sand & gravel	3	75

6 120972974100 Boyce, Kenneth D. 8-44N-12E
Lake Craft Construction
Status: WATER SW SW SE Elev: 0
permit: 133242 permit date: 07/06/87 comp. date: 07/09/87
Lambert X: 3443311 Lambert Y: 3376088 td: 108

producing formation: td formation:
latitude: 42.309253 longitude: 87.837841
Logs Run: Driller's Log

120970077600 No Company 9-44N-12E
Lake Greatlakesnavalhosp 3
Status: SE NE NW Elev: 640GL
permit: permit date: comp. date:
Lambert X: 3447877 Lambert Y: 3380066 td: 297
producing formation: td formation:
latitude: 42.309253 longitude: 87.837841
Logs Run: Driller's Log

120970177600 Ferguson F H 32-45N-12E
Lake Victor Geo
Status: NW NE NW Elev: 700GL
permit: permit date: comp. date:
Lambert X: 3441835 Lambert Y: 3391260 td: 187
producing formation: td formation:
latitude: 42.340387 longitude: 87.859454
Logs Run: Driller's Log

120970177800 Gray, F. M., Jr., Inc. 33-45N-12E
Lake Abbott Labs
Status: NW NW SE Elev: 655GL
permit: permit date: comp. date:
Lambert X: 3448416 Lambert Y: 3388730 td: 1600
producing formation: td formation:
latitude: 42.333090 longitude: 87.835237
Logs Run: Geologic Tops
Survey Sample Study

120970178100 Washburn Mfg Co 33-45N-12E
Lake Amer Steel & Wire 3
Status: NE Elev: 0
permit: permit date: comp. date:
Lambert X: 3449360 Lambert Y: 3390381 td: 2004
producing formation: td formation:
latitude: 42.337589 longitude: 87.831606
Logs Run: Geologic Tops
Driller's Log

120970178400 Ferguson M G 33-45N-12E
Lake Rifle Range
Status: SW SE Elev: 660GL
permit: permit date: comp. date:
Lambert X: 3448760 Lambert Y: 3387092 td: 200
producing formation: td formation:
latitude: 42.328561 longitude: 87.834031
Logs Run: Driller's Log

Non Oil and Gas - Wells

2 120970076600 Green H L 5-44N-12E
Lake Carrison Tony 1
Status: WATER Elev: 0
permit: 0 permit date: comp. date: 01/01/40
Lambert X: 3442899 Lambert Y: 3383689 td: 198
producing formation: td formation:
latitude: 42.319483 longitude: 87.856013

120970306500 5-44N-12E
Lake N Chicago Refiners

Oil and Gas - Wells

120970076100 Ferguson M G 4-44N-12E
Lake Sager Lock Co
Status: SW NW SW Elev: 640GL
permit: permit date: comp. date:
Lambert X: 3445866 Lambert Y: 3382714 td: 210
producing formation: td formation:
latitude: 42.316649 longitude: 87.845046
Logs Run: Driller's Log

120970076500 Ferguson M G 5-44N-12E
Lake Chicago Hardward
Status: SE NE SE Elev: 647GL
permit: permit date: comp. date:
Lambert X: 3445207 Lambert Y: 3382708 td: 206
producing formation: td formation:
latitude: 42.316665 longitude: 87.847514
Logs Run: Driller's Log

120970076700 No Company 5-44N-12E
Lake Lucus Frank
Status: SW NW SW Elev: 724GL
permit: permit date: comp. date:
Lambert X: 3440605 Lambert Y: 3382661 td: 224
producing formation: td formation:
latitude: 42.316765 longitude: 87.864595
Logs Run: Driller's Log

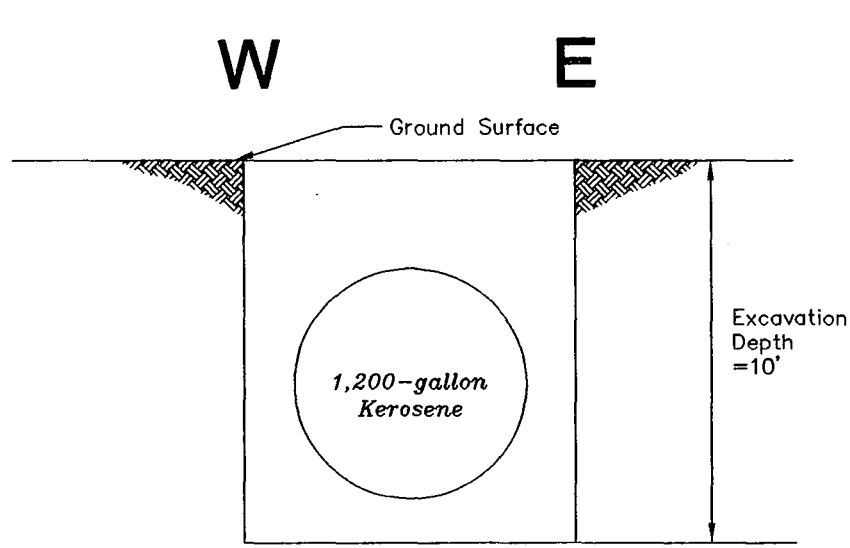
120970077100 Ferguson M G 8-44N-12E
Lake Novak Ed T
Status: SW NW NW Elev: 704GL
permit: permit date: comp. date:
Lambert X: 3440624 Lambert Y: 3380006 td: 218
producing formation: td formation:
latitude: 42.309452 longitude: 87.864702
Logs Run: Driller's Log

120970077300 Gray Well Drilling 9-44N-12E
Lake Dewey C E 1
Status: SW NW SE Elev: 645GL
permit: permit date: comp. date:
Lambert X: 3448572 Lambert Y: 3377446 td: 1077
producing formation: td formation:
latitude: 42.302004 longitude: 87.835459
Logs Run: Geologic Tops
Survey Sample Study

120970077400 No Company 9-44N-12E
Lake Greatlakesnavalhosp 1
Status: SE NE NW Elev: 640GL
permit: permit date: comp. date:
Lambert X: 3447877 Lambert Y: 3380066 td: 200
producing formation: td formation:
latitude: 42.309253 longitude: 87.837841
Logs Run: Geologic Tops
Driller's Log

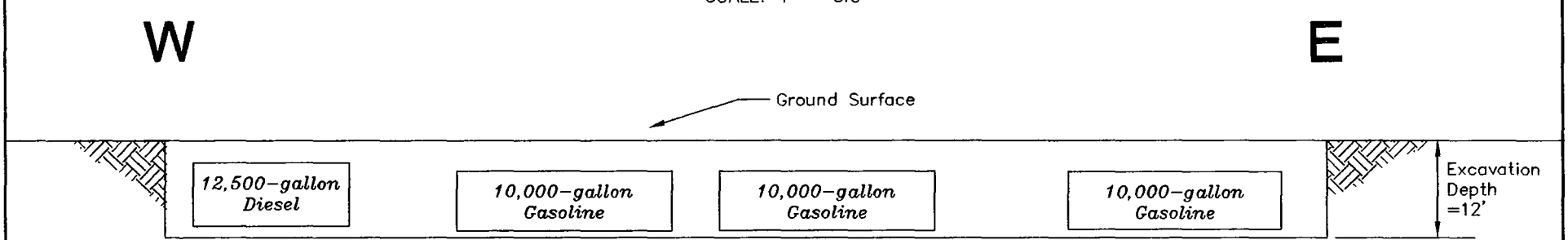
120970077500 No Company 9-44N-12E
Lake Greatlakesnavalhosp 2
Status: SE NE NW Elev: 640GL
permit: permit date: comp. date:
Lambert X: 3447877 Lambert Y: 3380066 td: 220

GLNTC-103-XSEC.DWG - 05/21/98 - RAO - 001-044912



CROSS-SECTION OF KEROSENE UST ON NORTH SIDE OF BUILDING 103

2.5' 0 2.5' 5.0'
SCALE: 1" = 5.0'



CROSS-SECTION OF UST'S ON SOUTH SIDE OF BUILDING 103

10' 0 10' 20'
SCALE: 1" = 20'

GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

FIGURE A-4
CROSS-SECTIONS OF UNDERGROUND STORAGE TANKS - BUILDING 103

Tetra Tech EM Inc.

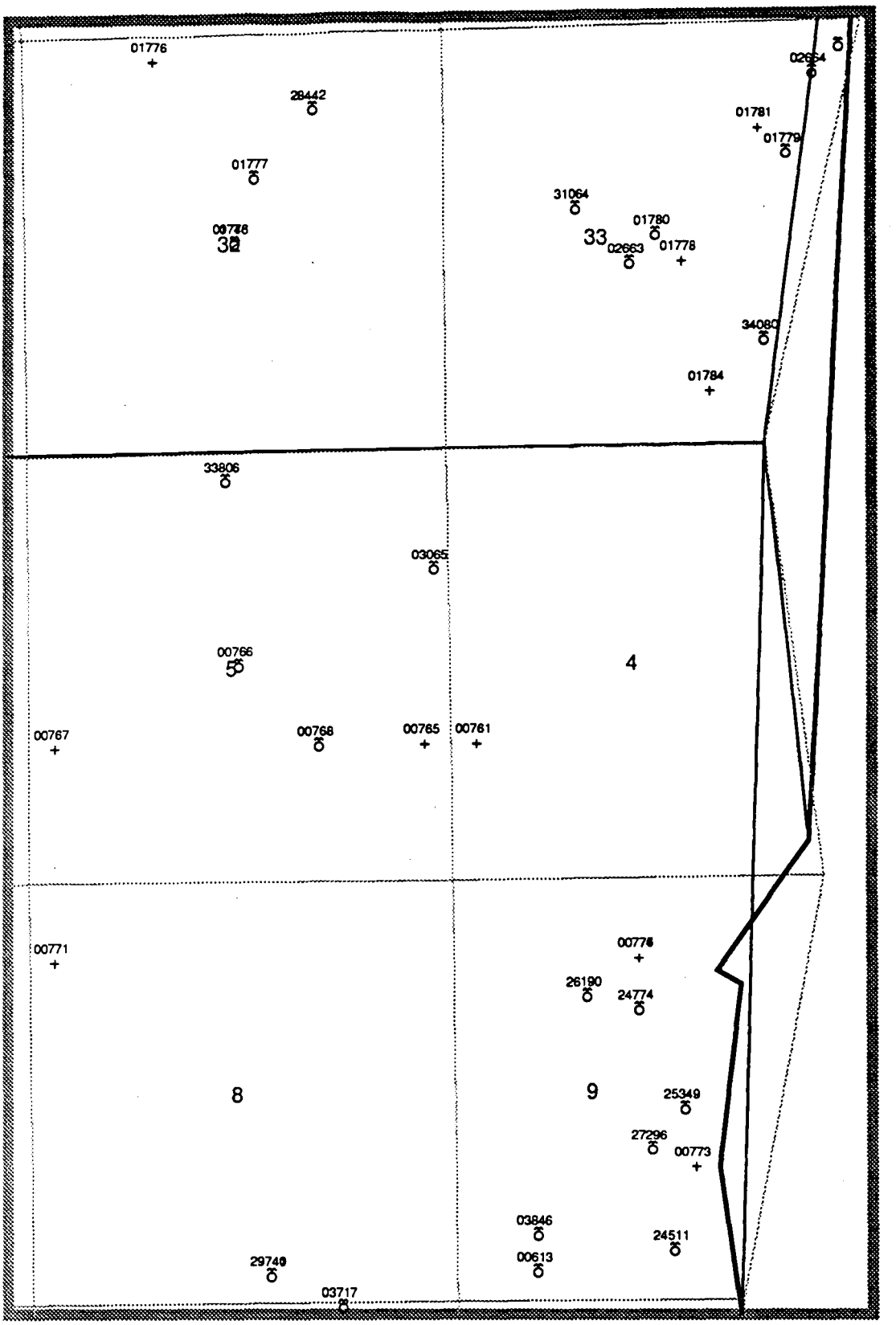
SOURCE:

APPENDIX D

LABORATORY ANALYTICAL REPORT

(60 Sheets)

Map Area: 44N-12E-18 m3 to 45N-12E-28 m3



Explanation

Oil	Gas Injection	Junked
Oil & Gas	Gas Storage	Temporarily Abandoned
Gas	Salt Water Disposal	Observation
D&A - Oil Show	Water Injection	Other Injection
D&A - Gas Show	Water Supply	Confidential
D&A - Oil & Gas Show	Permit	Other Well Type
D&A	Water	Status Unknown

/ through any symbol indicates well is currently plugged

N

0 1935 3870 ft

Illinois State Geological Survey

QuEStoR: Custom Map

Date:31-MAR-98 Scale: 1:23220

Displayed data is based upon information supplied to the Illinois State Geological Survey (ISGS) and are not field verified. The ISGS

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422959

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422960
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 10:45

Report To

HERITAGE ENVIRONMENTAL SERVICES
KEVIN REINHARD
15330 CANAL BANK RD.
LEMONT, IL 60439

Bill To

HERITAGE ENVIRONMENTAL SERVICES
GLEN BORESI
1319 MARQUETTE DRIVE
ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-7FM @ 12'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102197	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102197	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102197	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102197	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102197	113		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102197	136		% Rec
SW846-8240B	0	TOLUENE-D8	102197	111		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422960

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422961
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	31-OCT-97	10-OCT-97 10:50

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-8SW @ 9'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102097	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102097	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102097	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102097	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102097	104		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102097	136		% Rec
SW846-8240B	0	TOLUENE-D8	102097	110		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422961

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.
SW846-8240B.0 MS AND MSD USED AS REANALYSIS.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By: _____

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422962
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	09-DEC-97	10-OCT-97 15:50

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-9NW @ 8'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102197	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102197	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102197	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102197	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102197	91		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102197	96		% Rec
SW846-8240B	0	TOLUENE-D8	102197	99		% Rec
SW846-8310	[illegible]	[illegible]UOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422962

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By: _____

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422963
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	09-DEC-97	10-OCT-97 15:55

Report To

HERITAGE ENVIRONMENTAL SERVICES
KEVIN REINHARD
15330 CANAL BANK RD.
LEMONT, IL 60439

Bill To

HERITAGE ENVIRONMENTAL SERVICES
GLEN BORESI
1319 MARQUETTE DRIVE
ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-10FM @ 12'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102097	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102097	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102097	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102097	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102097	87		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102097	93		% Rec
SW846-8240B	0	TOLUENE-D8	102097	101		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	110		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422963

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By: _____

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	14-OCT-97	A422964
	Complete	PO Number
	30-OCT-97	79487
	Printed	Sampled
	09-DEC-97	10-OCT-97 16:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-11SW @ 9'BSG
PROJECT: GREAT LAKES NAVAL TRAINING CENTER BLDG.103

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102097	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102097	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102097	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102097	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZ(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102097	90		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102097	96		% Rec
SW846-8240B	0	TOLUENE-D8	102097	101		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	120		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A422964

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By: _____

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423320
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-12-NW @ 9'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	7	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	112		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	144		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	64		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423320

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423321
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-13-FM @ 12'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	117		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	147		% Rec
SW846-8240B	0	TOLUENE-D8	102297	109		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	68		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423321

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423322
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-14-SW @ 8'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	118		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	156		% Rec
SW846-8240B	0	TOLUENE-D8	102297	103		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	100		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423322

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423323
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-15-NW @ 8'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	5.0	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	113		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	151		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	76		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423323

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423324
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-16-FM @ 12'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	117		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	155		% Rec
SW846-8240B	0	TOLUENE-D8	102297	105		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	52		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423324

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423325
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	13-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-17-SW @ 9'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102197	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102197	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102197	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102197	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102197	93		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102197	97		% Rec
SW846-8240B	0	TOLUENE-D8	102197	103		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	70		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423325

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423326
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 13:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-18-NW @ 8'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102497	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102497	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102497	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102497	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102497	97		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102497	115		% Rec
SW846-8240B	0	TOLUENE-D8	102497	89		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	78		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423326

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423327
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 13:05

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-19-FE @ 12'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102497	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102497	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102497	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102497	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	6.5	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	4.6	2	ug/kg
SW846-8310	0	PYRENE	102297	9.2	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102497	100		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102497	119		% Rec
SW846-8240B	0	TOLUENE-D8	102497	85		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	81		% Rec

Sample Comments

SW846-8240B.0 betx ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423327

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423328
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 13:10

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-20-SW @ 9'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102497	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102497	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102497	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102497	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102497	103		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102497	112		% Rec
SW846-8240B	0	TOLUENE-D8	102497	94		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	88		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423328

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423329
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 14:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-21-NW @ 7'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102297	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	115		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	157		% Rec
SW846-8240B	0	TOLUENE-D8	102297	115		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	61		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423329

SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.
SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.
SW846-8240B.0 MS + MSD used as reanalysis.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423330
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 14:05

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-22-FE @ 12'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	24	5	ug/kg
SW846-8240B	0	TOLUENE	102297	14	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	160	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102297	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102297	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102297	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102297	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102297	34	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102297	15	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102297	20	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102297	10	3	ug/kg
SW846-8310	0	CHRYSENE	102297	22	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102297	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102297	62	3	ug/kg
SW846-8310	0	FLUORENE	102297	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102297	24	4	ug/kg
SW846-8310	0	NAPHTHALENE	102297	190	4	ug/kg
SW846-8310	0	PHENANTHRENE	102297	BDL	2	ug/kg
SW846-8310	0	PYRENE	102297	45	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	107		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	106		% Rec
SW846-8240B	0	TOLUENE-D8	102297	124		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102297	95		% Rec

Sample Comments

SW846-8240B.0 Matrix Spike is the Re-analysis.

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423330

SW846-8240B.0 BETX ONLY
SW846-8240B.0 Sample reanalyzed with no improvement in surrogate recovery.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423331
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 14:10

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-23-SW @ 7'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	10	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	25	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	25	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	360	25	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	58	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	74	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	41	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	42	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	34	3	ug/kg
SW846-8310	0	CHRYSENE	102397	52	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	180	3	ug/kg
SW846-8310	0	FLUORENE	102397	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	52	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	78	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	98	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	102		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	105		% Rec
SW846-8240B	0	TOLUENE-D8	102297	103		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	100		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423331

SW846-8240B.0 1:5 Dilution
SW846-8240B.0 Unable to analyze sample at lower dilution due to high concentration of
SW846-8240B.0 non-target compounds.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423332
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 15:00

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-24-FE @ 12'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	12	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	96		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	98		% Rec
SW846-8240B	0	TOLUENE-D8	102297	103		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	88		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423332

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423333
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	14-OCT-97 15:10

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-25-EW @ 8'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	96		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	101		% Rec
SW846-8240B	0	TOLUENE-D8	102297	105		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	100		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423333

SW846-8240B.0 Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423334
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	15-OCT-97 08:05

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K1-FN @ 7'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	14	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	100		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	103		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	87		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423334

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423335
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	15-OCT-97 08:10

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K2-FS @ 7'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	14	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	18	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	9.6	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	101		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	102		% Rec
SW846-8240B	0	TOLUENE-D8	102297	107		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	78		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423335

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423336
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	15-OCT-97 08:15

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K3-NW @ 5'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	10	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	25	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	25	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	38	25	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	55	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	400	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	54	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	117		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	102		% Rec
SW846-8240B	0	TOLUENE-D8	102297	107		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	130		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423336

SW846-8240B.0 1:5 Dilution
SW846-8240B.0 Unable to analyze sample at lower dilution due to high concentration of
SW846-8240B.0 non-target compounds.

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423337
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	15-OCT-97 08:20

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K4-SW @ 6'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	BDL	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	96		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	101		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	71		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423337

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423338
	Complete	PO Number
	31-OCT-97	79487
	Printed	Sampled
	03-NOV-97	15-OCT-97 08:25

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K5-EW @ 7'BSG

ORGANICS

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	2	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	5	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	5	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	5	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	18	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	5	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	BDL	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	5.4	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	62	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	95		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	103		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	100		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY

HERITAGE ENVIRONMENTAL SERVICES, INC. Sample Comments Lab Sample ID: A423338

BDL Below Detection Limit
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

Approved By:

CERTIFICATE SUMMARY

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	17-OCT-97	A423339
	Complete	PO Number
	05-NOV-97	79487
	Printed	Sampled
	06-NOV-97	15-OCT-97 08:30

Report To	Bill To
HERITAGE ENVIRONMENTAL SERVICES KEVIN REINHARD 15330 CANAL BANK RD. LEMONT, IL 60439	HERITAGE ENVIRONMENTAL SERVICES GLEN BORESI 1319 MARQUETTE DRIVE ROMEOVILLE, IL 60441

Sample Description

CLIENT ID: 103-K6-WW @ 5'BSG

ORGANICS

Method	Req	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	BENZENE	102297	BDL	10	ug/kg
SW846-8240B	0	ETHYL BENZENE	102297	BDL	25	ug/kg
SW846-8240B	0	TOLUENE	102297	BDL	25	ug/kg
SW846-8240B	0	XYLENES (O/M/P-XYLENE)	102297	BDL	25	ug/kg
SW846-8310	0	ACENAPHTHENE	102397	BDL	2	ug/kg
SW846-8310	0	ACENAPHTHYLENE	102397	BDL	13	ug/kg
SW846-8310	0	ANTHRACENE	102397	BDL	4	ug/kg
SW846-8310	0	BENZO(A)ANTHRACENE	102397	BDL	2	ug/kg
SW846-8310	0	BENZO(A)PYRENE	102397	BDL	8	ug/kg
SW846-8310	0	BENZO(B)FLUORANTHENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(G,H,I)PERYLENE	102397	BDL	7	ug/kg
SW846-8310	0	BENZO(K)FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	CHRYSENE	102397	BDL	4	ug/kg
SW846-8310	0	DIBENZ(A,H)ANTHRACENE	102397	BDL	6	ug/kg
SW846-8310	0	FLUORANTHENE	102397	BDL	3	ug/kg
SW846-8310	0	FLUORENE	102397	E 1400	4	ug/kg
SW846-8310	0	INDENO(1,2,3-CD)PYRENE	102397	BDL	4	ug/kg
SW846-8310	0	NAPHTHALENE	102397	460	4	ug/kg
SW846-8310	0	PHENANTHRENE	102397	BDL	2	ug/kg
SW846-8310	0	PYRENE	102397	BDL	2	ug/kg
SW846-8310	1	ACENAPHTHENE	110197	BDL	10	ug/kg
SW846-8310	1	ACENAPHTHYLENE	110197	BDL	65	ug/kg
SW846-8310	1	ANTHRACENE	110197	BDL	20	ug/kg
SW846-8310	1	BENZ(A)ANTHRACENE	110197	BDL	10	ug/kg
SW846-8310	1	BENZO(A)PYRENE	110197	BDL	40	ug/kg
SW846-8310	1	BENZO(B)FLUORANTHENE	110197	BDL	20	ug/kg
SW846-8310	1	BENZO(G,H,I)PERYLENE	110197	BDL	35	ug/kg
SW846-8310	1	BENZO(K)FLUORANTHENE	110197	BDL	15	ug/kg
SW846-8310	1	CHRYSENE	110197	BDL	20	ug/kg
SW846-8310	1	DIBENZ(A,H)ANTHRACENE	110197	BDL	25	ug/kg

HERITAGE ENVIRONMENTAL SERVICES, INC. Lab Sample ID: A423339

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8310	1	FLUORANTHENE	110197	BDL	15	ug/kg
SW846-8310	1	FLUORENE	110197	1400	20	ug/kg
SW846-8310	1	INDENO(1,2,3-CD)PYRENE	110197	BDL	20	ug/kg
SW846-8310	1	NAPHTHALENE	110197	430	20	ug/kg
SW846-8310	1	PHENANTHRENE	110197	BDL	10	ug/kg
SW846-8310	1	PYRENE	110197	BDL	10	[illegible]

SURROGATE

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units
SW846-8240B	0	4-BROMOFLUOROBENZENE	102297	114		% Rec
SW846-8240B	0	DICHLOROETHANE-D4	102297	97		% Rec
SW846-8240B	0	TOLUENE-D8	102297	106		% Rec
SW846-8310	0	2-FLUOROBIPHENYL	102397	130		% Rec
SW846-8310	1	2-FLUOROBIPHENYL	110197	140		% Rec

Sample Comments

SW846-8240B.0 BETX ONLY
SW846-8240B.0 1:5 Dilution
SW846-8240B.0 Unable to analyze sample at lower dilution due to high concentration of
SW846-8240B.0 non-target compounds.
SW846-8310.1 1:5 dilution

BDL Below Detection Limit
E Estimated or exceeds calibration range
This is a summary report.
Complete analytical information regarding analysts, methods and dates analyzed can be found in the Certificate of Analysis.

APPENDIX E

CERTIFICATION OF NON-HAZARDOUS, NON-SPECIAL WASTE FOR PETROLEUM CONTAMINATED SOILS

(Nine Sheets)

DEPARTMENT OF THE NAVY
NAVY PUBLIC WORKS CENTER
AND
ENGINEERING FIELD ACTIVITY, MIDWEST
BUILDING 1-A
2703 SHERIDAN ROAD, SUITE #120
GREAT LAKES, ILLINOIS 60088-5600

5090
Ser N45/ 000535
08 OCT 1997

Donald Harrison
Remedial Project Manager
Illinois Environmental Protection Agency
Bureau of Land - Division of Remedial Management
Remedial Project Management Section - Federal Facilities Unit
2200 Churchill Road
Springfield, Illinois 62794-9276

Subj: CERTIFICATION OF NON-HAZARDOUS, NON-SPECIAL WASTE FOR PETROLEUM CONTAMINATED SOIL AT BUILDING 11 AND 103; PURSUANT TO SECTION 808 OF ILLINOIS ADMINISTRATIVE CODE TITLE 35

Dear Mr. Harrison:

Naval Training Center (NTC), Great Lakes, Illinois is certifying through this letter that the proposed waste described within enclosure (1) does not meet the criteria for a hazardous waste (toxicity, corrosivity, iginitability and reactivity), is not a liquid waste, does not contain asbestos, polychlorinated biphenyl's (PCBs) or auto fluff.

Generated waste is a result of a leaking underground storage tank (UST) removal project. The underground storage tanks were utilized throughout their service life to contain only petroleum products (gasoline, #2 diesel fuel and kerosene). Petroleum product from the UST's has leaked from the tanks and/or piping over their service life and contaminated the surrounding soil.

Provided in enclosure (1) are site and vicinity maps, drawings, historical data and analytical results to verify that the subject waste can be characterized as ordinary municipal waste pursuant to 35 IAC Section 808 are also included.

The waste (soil) is to be transported to the old Firefighting Training Unit (FFTU) site within Willow Glen golf course. This property is also Federal/Navy property and is being used as a biopile site for passive bioremediation of petroleum contaminated soils, such as the subject waste. Approximately 1,000 cubic yards (CY) of petroleum contaminated soil will be transported from Buildings 11 and 103 to the FFTU site for bioremediation.

Subj: CERTIFICATION OF NON-HAZARDOUS, NON-SPECIAL WASTE FOR PETROLEUM CONTAMINATED SOIL AT BUILDING 11 AND 103; PURSUANT TO SECTION 808 OF ILLINOIS ADMINISTRATIVE CODE TITLE 35

Please contact Mr. Terry Aide or J.P. Messier at (847) 688-5999 extension 44 or 51, respectively if there is any additional information you may want on this matter.

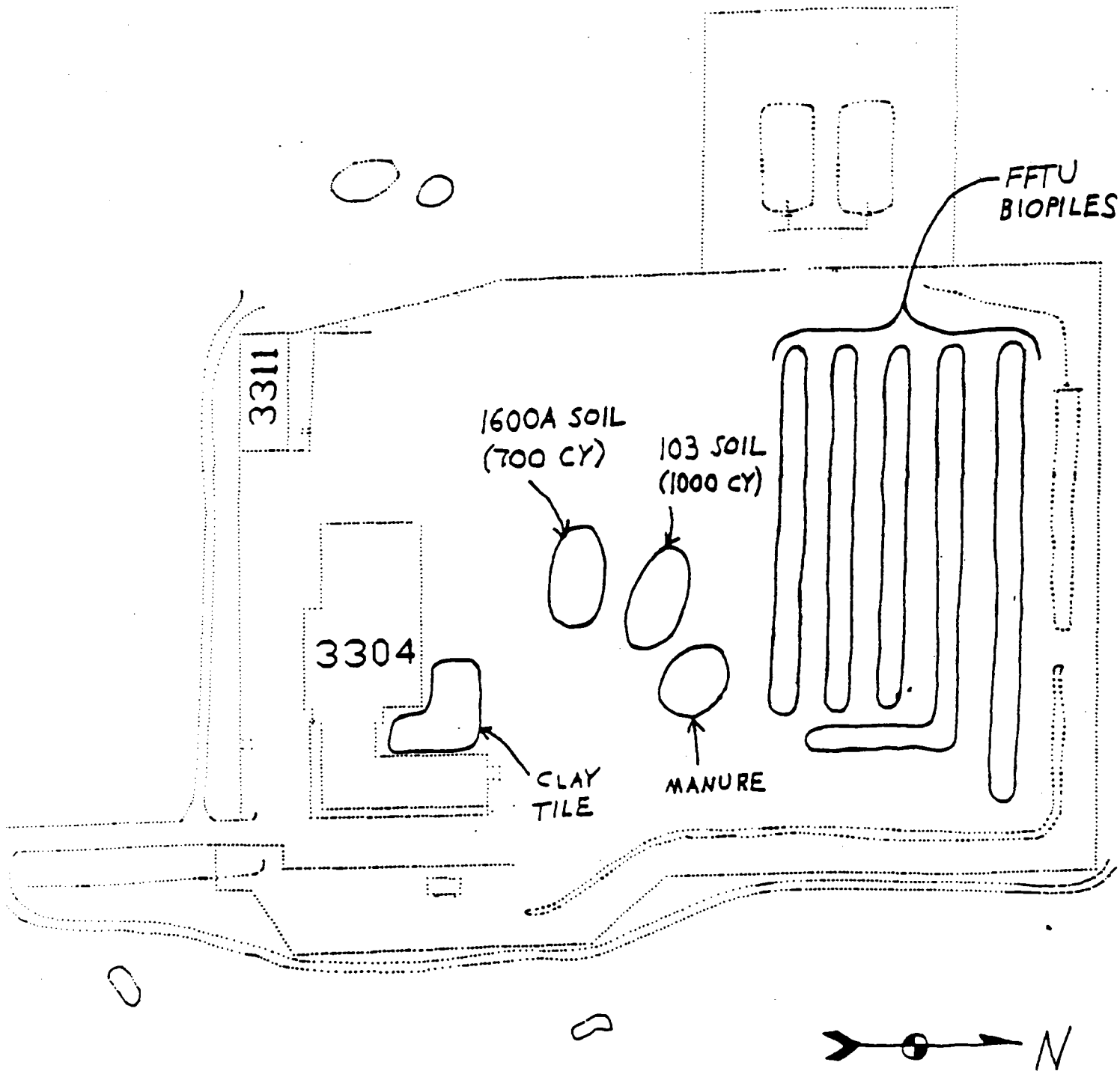
Sincerely,

Mark Schultz

MARK SCHULTZ
Environmental Officer
By direction of
the Commanding Officer

Enclosure (1): Project Information

FFTU


FFTU
BIOPILES
3311
1600A SOIL
(700 CY)
103 SOIL
(1000 CY)
3304
CLAY
TILE
MANURE
N

POINT PAPER

JP Messier/Terry Aide
N45/(847) 688-5999
3 Oct 97

Subj: Buildings 11, 103 and 1600A - Petroleum Impacted Soil Disposal Certification Pursuant to the Illinois Environmental Protection Act and 35 IAC Section 808

BACKGROUND

A recent Amendment passed August 19, 1997 to the Illinois Environmental Protection Act allows for the disposal of pollution prevention waste as a municipal landfill waste as long as it has been proven to be a non-hazardous solid waste.

The intent of this point paper is to act as the certifying document for disposal of pollution prevention waste created as a result of release from underground petroleum-containing storage tanks at Buildings 11, 103 and 1600A on the Naval Training Center, Great Lakes, Illinois.

HISTORY AND DISCUSSION

Building 11 is the Navy Public Works Center power plant. Part of its operation utilized a MUSE backup generator with a 2,000 gallon fiberglass diesel UST. Last year, a new generator and AST rendered the MUSE generator and tank obsolete. The UST is scheduled to be removed on October 7-8, 1997. Petroleum contamination may be encountered in the area when the tank is removed.

Building 103 served as the Great Lakes Gas Station during the first half of the century. A historical photograph from 1939 shows cars being fueled at the station (enclosed). The gasoline station was shut down many years ago and there were no records showing the tanks being removed. A magnetometer survey and interviews with older employees verified the existence of three (3) underground gasoline tanks (approx. 10,000 gallons each), one (1) diesel heating tank (approx. 12,500 gallons) and one (1) kerosene tank (approx. 1,000 gallons). Results of the survey are enclosed. These USTs are scheduled to be removed on October 7-8, 1997. Petroleum contamination is expected to be encountered when these tanks are removed.

The Building 1600A Gas Station served as the gas station for the Navy Public Works Center, Great Lakes until August, 1997. It contained two (2) underground gasoline storage tanks (10,000 gallons each) and one (1) underground diesel tank (6,500 gallons). When the tanks and fuel dispensers were recently removed, petroleum contamination was found throughout the area.

Subj: Buildings 11, 103 and 1600A - Petroleum Impacted Soil Disposal Certification Pursuant to the Illinois Environmental Protection Act and 35 IAC Section 808

ACTION

The Great Lakes Environmental Department certifies that only petroleum products (gasoline, diesel and kerosene) were stored in the underground tanks at these sites. All tanks and piping (fuel, vent and electrical) will be excavated and removed from these sites along with concrete, asphalt and other debris. Petroleum contaminated soils will be removed until cleanup objectives are met or until structures not slated for demolition have the potential to be impacted.

A composite soil characterization sample will be collected from areas of visibly stained soils at each site. Each composite sample will consist of samples taken from observed contaminated regions from each of the following: One from each tank wall (four total), two from the tank floor, and one for every ten feet of piping run. All samples will be collected and analyzed utilizing the sampling, custody and analytical procedures outlined in the Fire Fighting Training Unit (FFTU) Quality Assurance Project Plan (QAPP), written by Beling Consultants (August 1997).

An analysis for petroleum contaminated soils from the building 1600A site is enclosed. The composite sample was taken using the procedures referenced above. Results show that the soil is neither a hazardous waste or a special waste. Composite samples from both the building 103 and 11 sites will be analyzed for BTEX, PNA/PAH in addition to the same items shown on the building 1600A analysis. Petroleum contaminated soil from these sites do not meet the criteria for a hazardous waste, is not a liquid waste, does not contain asbestos, polychlorinated biphenyl's (PCBs) or auto fluff. If the analysis verifies that the petroleum contaminated soils are neither hazardous or a special waste, the soil will then be taken to the FFTU site within Willow Glen golf course. This property is also Federal/Navy property and is being used as a biopile site for passive bioremediation of petroleum contaminated soils.

Petroleum contaminated soils will be placed directly in transport trucks for transport over to the FFTU site at building 3304. Each load will be internally documented with a bill of lading that includes a description of the location where soil was removed from each site. Excavated soil will be stockpiled and segregated at the FFTU for biopile construction.

Biopiles will be constructed in accordance with the Fire Fighting Training Unit (FFTU) Revised Workplan for Excavation of Drainage Piping, and Field Pilot Study for Bioremediation of Petroleum Contaminated Soil, written by Beling Consultants (July, 1997).

Subj: Buildings 11, 103 and 1600A - Petroleum Impacted Soil Disposal Certification Pursuant to the Illinois Environmental Protection Act and 35 IAC Section 808

Operation and Maintenance of the biopiles to track progress toward compliance with the Tiered Approach to Corrective Action Objectives (TACO) standards found in 35 IAC 742 will also be done in accordance with the Fire Fighting Training Unit (FFTU) Revised Workplan for Excavation of Drainage Piping, and Field Pilot Study for Bioremediation of Petroleum Contaminated Soil, written by Beling Consultants (July, 1997).

RECOMMENDATIONS AND CONCLUSIONS

All soil pursuant to the excavation at buildings 11, 103 and 1600A will be certified as both a non-hazardous and non-special waste in accordance with requirements set forth by the Illinois Environmental Protection Act. This will be fully proven by laboratory analysis of the waste stream for all of the RCRA hazardous constituents (toxicity, ignitibility, reactibility and corrosivity).

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
847-967-6666
FAX: 847-967-6735

LABORATORY REPORT

171011

Heritage Environmental Services, Inc.
15330 Canal Bank Road
Lemont, IL 60439

Report Date: 10/7/97
Sample Received: 10/1/97
Date Sampled: 9/30/97

Project No.: 9660
Project Name: Building 103
Sample Description: Soil Grab - Building 103
Sample No.: 23697

Analyte	Result	Date Completed	By	Method
Ash content	80.1%	10/06/97	SS	2540E(2)
Water Compatibility	NO REACTION SINKS	10/02/97	DM	D5058-90(21)
Total Cyanide	<2.00	10/02/97	AG	9010A(6)
Open Cup Flash Point	>180.°F	10/02/97	DM	D92-90(21)
Odor of sample	NONE	10/02/97	DM	D4979-89(21)
Paint Filter	PASS	10/02/97	DM	9095(6)
Total Phenolics	<1.00	10/02/97	AG	9065(6)
Physical Appearance	ROCKY BROWN CLAY AND SAND	10/02/97	DM	D4979-89(21)
Total Solids	85.3%	10/06/97	SS	2540B(2)
Reactive Sulfide	33.2	10/02/97	RG	7.3.4(6)
pH (10% Solution)	8.61 units	10/02/97	DM	9045(6)
Analysis Performed on TCLP Extract				
Arsenic	<0.200	10/02/97	MG	6010A(6)
Barium	<0.50	10/02/97	MG	6010A(6)
Cadmium	<0.004	10/02/97	MG	6010A(6)
Chromium	<0.10	10/02/97	MG	6010A(6)
Copper	<0.10	10/02/97	MG	6010A(6)
Lead	0.13	10/02/97	MG	6010A(6)
Mercury	<0.00009	10/02/97	ML	7470A(6)
Nickel	<0.10	10/02/97	MG	6010A(6)
Selenium	<0.200	10/02/97	MG	6010A(6)
Silver	<0.20	10/02/97	MG	6010A(6)
Zinc	1.87	10/02/97	MG	6010A(6)

All results expressed as ppm unless otherwise indicated

Note on pH (10% Solution): RESULT IS AN AVERAGE OF THREE. SAMPLE IS HETEROGENEOUS.
Note on Lead on TCLP: THE ANALYTICAL RESULT IS >LOD AND <LOQ.

(2) Analysis performed using "Standard Methods for the Examination of Wastewater", 19th Edition
(21) Analysis performed using ASTM Method
(6) Methods performed according to SW-846 "Test Methods for Evaluating Solid Waste"

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except in its entirety

LABORATORY DIRECTOR

ENVIRONMENTAL
MONITORING AND
TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
847-967-6660
FAX: 847-967-6735

LABORATORY REPORT

171011-A

Heritage Environmental Services, Inc.
15330 Canal Bank Road
Lemont, IL 60439

Project No.: 9660
Project Name: Building 103
Sample Description: Soil Grab - Building 103
Sample No.: 23697

Report Date: 10/7/97
Sample Received: 10/1/97
Date Sampled: 9/30/97

Reportable Compound PNA'S and Naphthalene	Concentration Found IN Sample ppb	Blank ppb	ADLS Soil ppb
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	43.6	<0.13	8.7
8. Benzo(a)pyrene	26	<0.23	15
9. Benzo(b)fluoranthene	44.7	<0.18	11
10. Benzo(k)fluoranthene	14.1	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zahn

LABORATORY DIRECTOR

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
847-967-6666
FAX: 847-967-6735

LABORATORY REPORT

171011-B

Heritage Environmental Services, Inc.
15330 Canal Bank Road
Lemont, IL 60439

Report Date: 10/7/97
Sample Received: 10/1/97
Date Sampled: 9/30/97

Project No.: 9660
Project Name: Building 103
Sample Description: Soil Grab - Building 103
Sample No.: 23697

Compounds	Concentration Found In Sample	Concentration Found In Blank	Method Detection Limit (MDL)	Regulatory Limit
1. Benzene	<0.25	<0.01	0.01	0.50
2. Carbon Tetrachloride	<0.25	<0.01	0.01	0.50
3. Chlorobenzene	<50.0	<0.01	0.01	100.00
4. Chloroform	<3.0	<0.01	0.01	6.00
5. o-Cresol	<100.0	<0.01	0.01	200.00
6. m-Cresol	<100.0	<0.01	0.01	200.00
7. p-Cresol	<100.0	<0.01	0.01	200.00
Total Cresol	<100.0	<0.01	0.01	200.00
8. 1,4-Dichlorobenzene	<3.75	<0.01	0.01	7.50
9. 1,2-Dichloroethane	<0.25	<0.01	0.01	0.50
10. 1,1-Dichloroethene	<0.35	<0.01	0.01	0.700
11. 2,4-Dinitrotoluene	<0.07	<0.01	0.01	0.13
12. Hexachlorobenzene	<0.07	<0.01	0.01	0.13
13. Hexachloro-1,3 -butadiene	<0.25	<0.01	0.01	0.50
14. Hexachloroethane	<1.50	<0.01	0.01	3.00
15. Methyl Ethyl Ketone	<100.0	<0.01	0.01	200.00
16. Nitrobenzene	<1.00	<0.01	0.01	2.00
17. Pentachlorophenol	<50.00	<0.01	0.01	100.00
18. Pyridine	<2.50	<0.01	0.01	5.00
19. Tetrachloroethylene	<0.35	<0.01	0.01	0.70
20. Trichloroethylene	<0.25	<0.01	0.01	0.50
21. 2,4,5-Trichlorophenol	<200.00	<0.01	0.01	400.00
22. 2,4,6-Trichlorophenol	<1.00	<0.01	0.01	2.00
23. Vinyl Chloride	<0.10	<0.01	0.01	0.20

All results expressed as ppm unless otherwise indicated.
Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

Analysis performed on Extract from TCLP.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zhou

LABORATORY DIRECTOR

APPENDIX F

OSFM PERMIT

(One Sheet)

Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, Illinois 62703-4259

JUL 08 1997
DIV. OF PETROLEUM & CHEMICAL SAFETY

Facility # [illegible]
Permit # 1821-97 REM

Application for Permit to REMOVE
Underground Storage Tanks for Petroleum and Hazardous Substances

be completed in quadruplet (one original and 3 copies) and filed with the Division of Petroleum and Chemical Safety, 1035 Stevenson Drive, Springfield, Illinois 62703-4259 (217/785-5878) or (217/785-1020)

(Owner of tanks) - Corporation, partnership or other business entity: (Must Be Mailing Address)

Commanding Officer, Navy Public Works Center
Name

2703 Seridan Road, Suite #120, Bldg. 1-A
Street Address

Great Lakes, Illinois 60088-5600
City State Zip

Mark Shultz 847/688-4693
Contact Person Phone

(Contractor) - person, firm or company performing work:

Heritage Environmental Services, Inc.
Name

1319 Marquette Drive
Street Address

Romeoville, Illinois 60446 WILL
City State Zip County

630/378-1600 ~~IL 1860~~ IL1253
Phone Registration No.

Exp. 2-24-98

You must notify ESDA 1-800-782-7860 within 24 hours of leaks or contaminated soil. Removal must be in accordance with acceptable closure requirements and procedure such as API Bulletin 1604. A site assessment must be conducted to determine if a release has occurred.

2) (Facility) - name and address where tanks are located

Great Lakes Naval Training Center
Name

2703 Sheridan Road, Bldg. 103 and 11
Street Address

Great Lakes, Illinois 60088-5600 LAKE
City State Zip County

Mark Shultz 847/688-4693
Contact Person Phone

Facility Registration I.D. Number

2-023810

FOR OFFICE USE ONLY

Permission to remove underground storage tank(s) is hereby granted. Such removal shall not commence until 8-14-97. A seventy-two hour (3 working day) notice to this office is required to confirm final date of removal for our inspector to be on site.

7-15-97 — Approval Date
M. Dale Tanke — Approved
1-15-98 — Permit Expires

Removal of Tanks:

a) Number and size of tanks being removed: 3-10,000 gal. (Gasoline) (Bldg 103) (10-T-2 thru 4), 1-1,000 gal. Kerosene (Bldg 1 (10-T-6) 1-2,000 gal. Diesel (Bldg. 11) (11-T-9)

b) Total number of all tanks removed: 5

c) Reason for removal of tanks: No Longer in Service

d) If tank is leaking, give ESDA incident number:

e) What products were stored in each tank? Gasoline (3), Kerosene (1), Diesel #2 (1)

f) If tanks contain products other than petroleum products, please indicate here:

g) Date each tank was last used? Prior to 1974 except 1-2,000 gallon diesel last used 10-1996.

h) A written notice of removal of tanks shall be given to the Office of the State Fire Marshal at least 30 d prior to the removal, giving location, number and size of tanks. This application will constitute that day written notice. The 30 day period commences with this application appropriately completed and the received in our office.

(Over)

Insufficient information supplied for permit review or omission of permit fee is grounds for applica rejection. No work is to commence without a granted permit in hand and must be available upon request inspectors. All work must be done by contractors registered with the State Fire Marshal's Office or by the tar owner only.

A permit fee of $100 for each facility must accompany this application. (Checks or money orders are to be ma payable to Office of the State Fire Marshal, do not send cash.) [Y] Check [ ] Money Order

For each facility, EPA form 7530-1 - Notification of Underground Storage Tanks must be completed and submitte the Office of the State Fire Marshal after tanks are removed.

certify under penalty of law that I have personally examined and am familiar with the information submitted in thi d all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaini e information, I believe that all submitted information is true, accurate and complete.

me of Authorized Representative: Kevin J. Reinhard Title and Company Represented: Project Manager, Heritage Environmental Services, Inc.

gnature of Authorized Representative: Kevin J. Reinhard Date: 7-3-97

te:

e Office of the State Fire Marshal is requesting information that is necessary to accomplish the statutory purpo tlined in Illinois Revised Statutes, Chapter 127½, Paragraph 9. Disclosure of this information is REQUIRED. Failu provide any information will result in this form not being processed. This form has been approved by For nagement Center. (Rev. 04/91) #3352

or Office Use

CS Specialist
re Department
ivision File
ale Tanks
ffice Associate

APPENDIX G

UST CERTIFICATE OF DESTRUCTION/DISPOSAL

(One Sheet)

HERITAGE ENVIRONMENTAL SERVICES, INC.

15330 Canal Bank Road
Lemont, IL 60439
Phone: 630/739-1151
Fax: 630/739-9491
Internet: http://www.heritage-enviro.com

HERITAGE ENVIRONMENTAL SERVICES, INC.
CHICAGO DIVISION
15330 Canal Bank Road
Lemont, Illinois 60439

To Whom It May Concern:

This letter certifies that Heritage Environmental Services, Inc., (HERITAGE) has transported the tank(s) listed below to a scrap yard to be destroyed in accordance with State and Federal Guidelines and DOT Transportation Regulations.

Date of Disposal: October 7 and 8, 1997

From: Building 103

1 – 10,000 gallon gasoline 10-7-97

1 - 12,500 gallon diesel 10-7-97

2 – 10,000 gallon gasoline 10-8-97

1 – 1,000 gallon kerosene 10-8-97

HERITAGE ENVIRONMENTAL SERVICES, INC.

Kevin J. Reinhard
Senior Project Manager

Recycled Paper

APPENDIX H

PHOTOGRAPHS

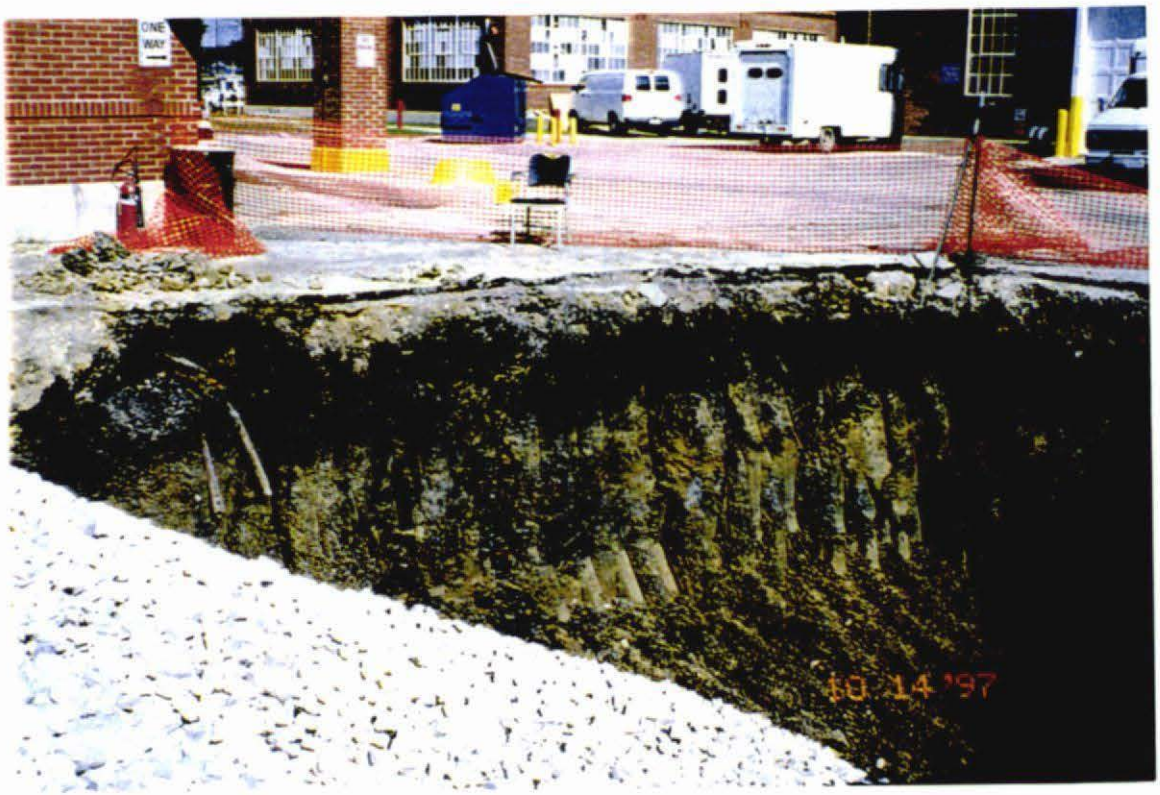
(13 Pages)

Photograph No. 13 Location: North Side of Building 103
Orientation: South Date: 10/02/97
Description: 1,200-gallon kerosene UST removed from excavation

Photograph No. 14 Location: South Side of Building 103
Orientation: North Date: 10/02/97
Description: 10,000-gallon leaded gasoline UST removed from excavation

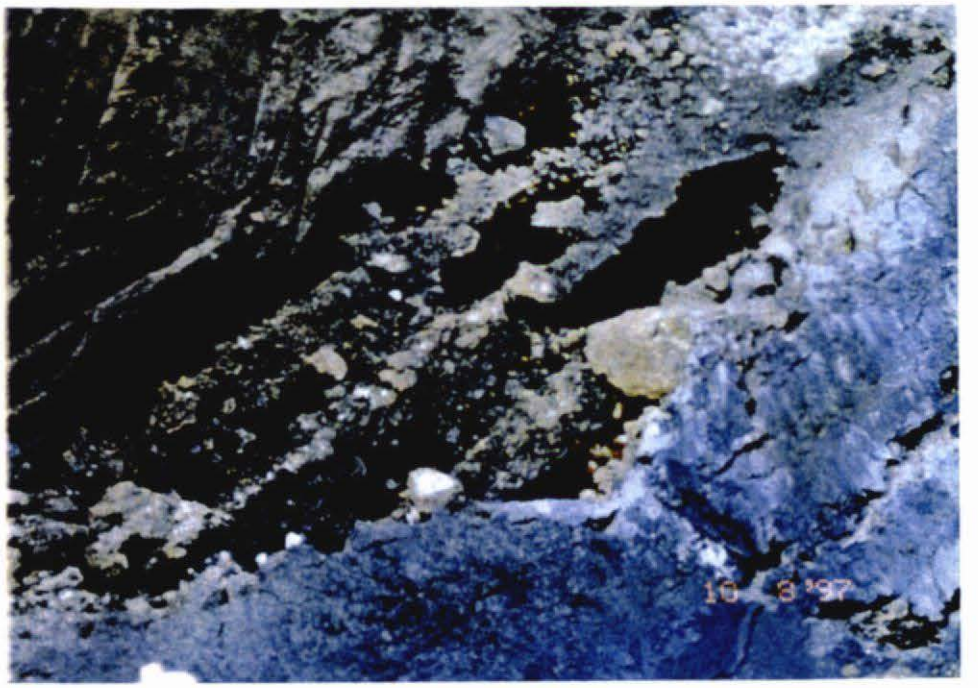
Photograph No. 12
Orientation: West
Description: 3-inch backfill placed in excavation

Location: South of Building 103
Date: 10/14/97



Photograph No. 11
Orientation: Northeast
Description: View of excavation

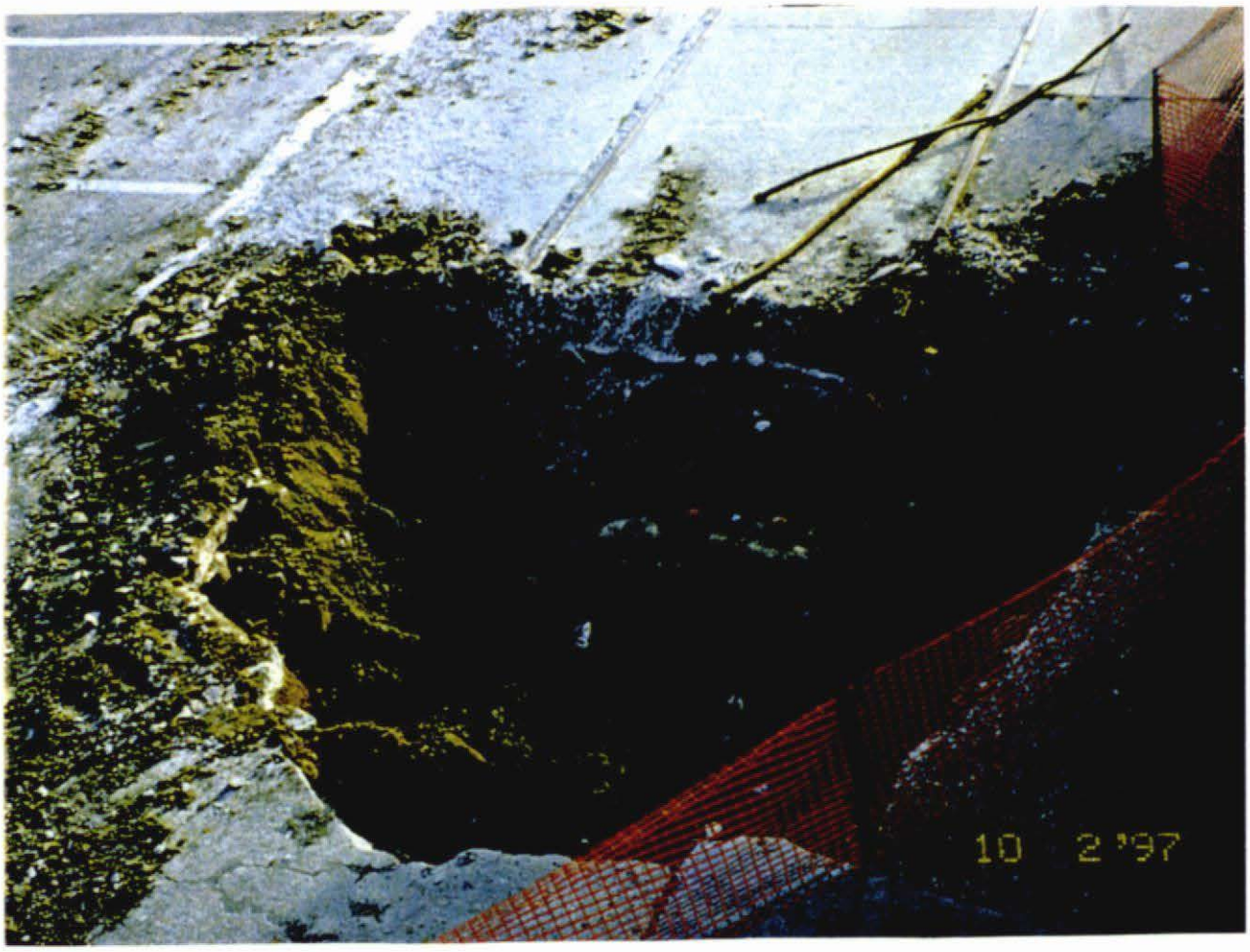
Location: Southeast of Building 103
Date: 10/14/97



Photograph No. 10
Orientation: Down
Description: Product in bottom of gasoline UST excavation

Location: South of Building 103
Date: 10/08/97

Photograph No. 9 Location: North Side of Building 103
Orientation: South Date: 10/02/97
Description: 1,200-gallon kerosene UST on north side of Building 103, note location of former pump island



Photograph No. 8
Orientation: East
Description: 1,200-gallon kerosene UST on north side of Building 103

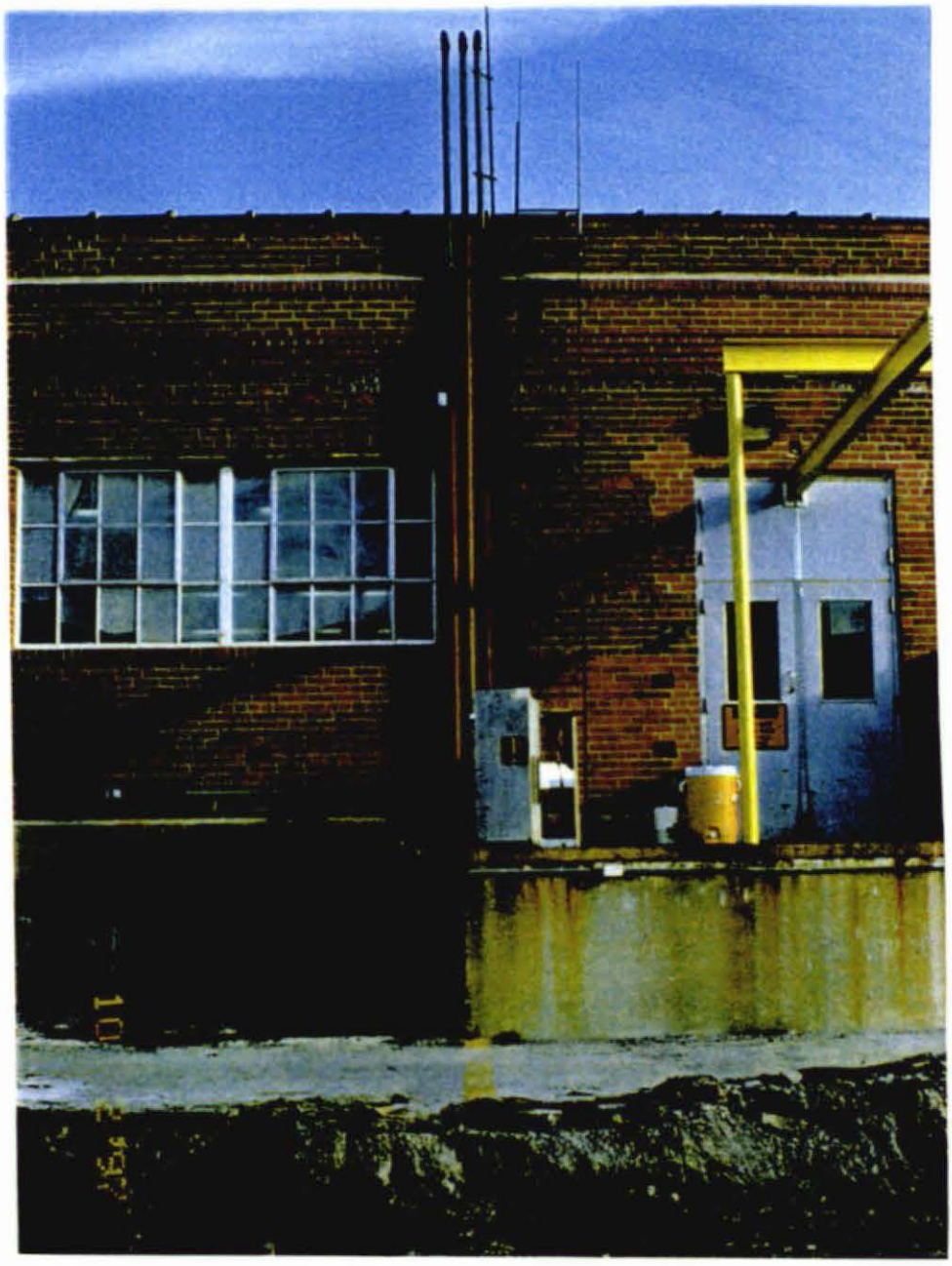
Location: North of Building 103
Date: 10/02/97

Photograph No. 7
Orientation: Southwest
Description: View of excavation on south side of Building 103

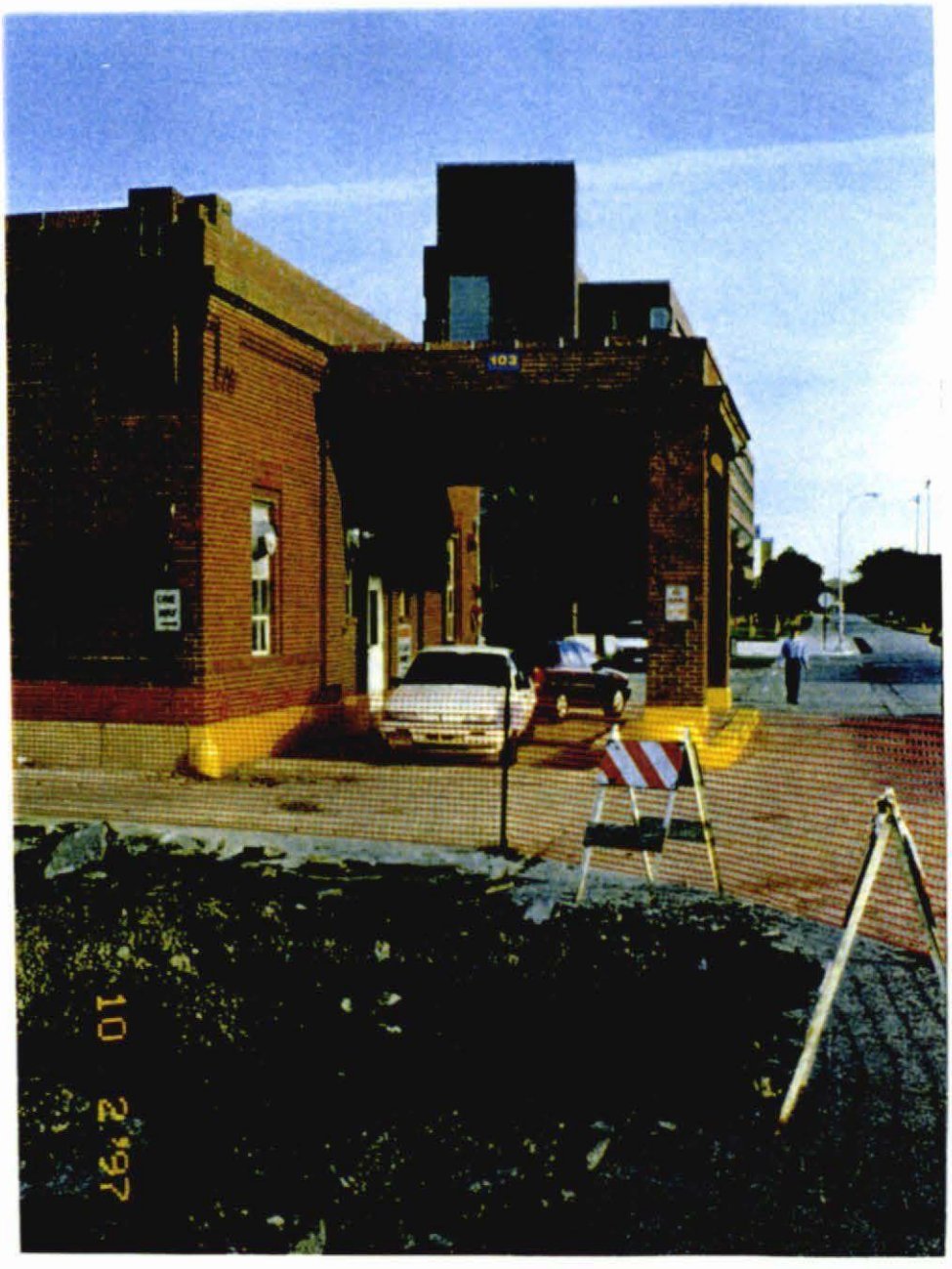
Location: Southeast Side of Building 103
Date: 10/02/97

Photograph No. 6
Orientation: South
Description: 10,000 gallon leaded gasoline UST, farthest east

Location: South Side of Building 103
Date: 10/02/97

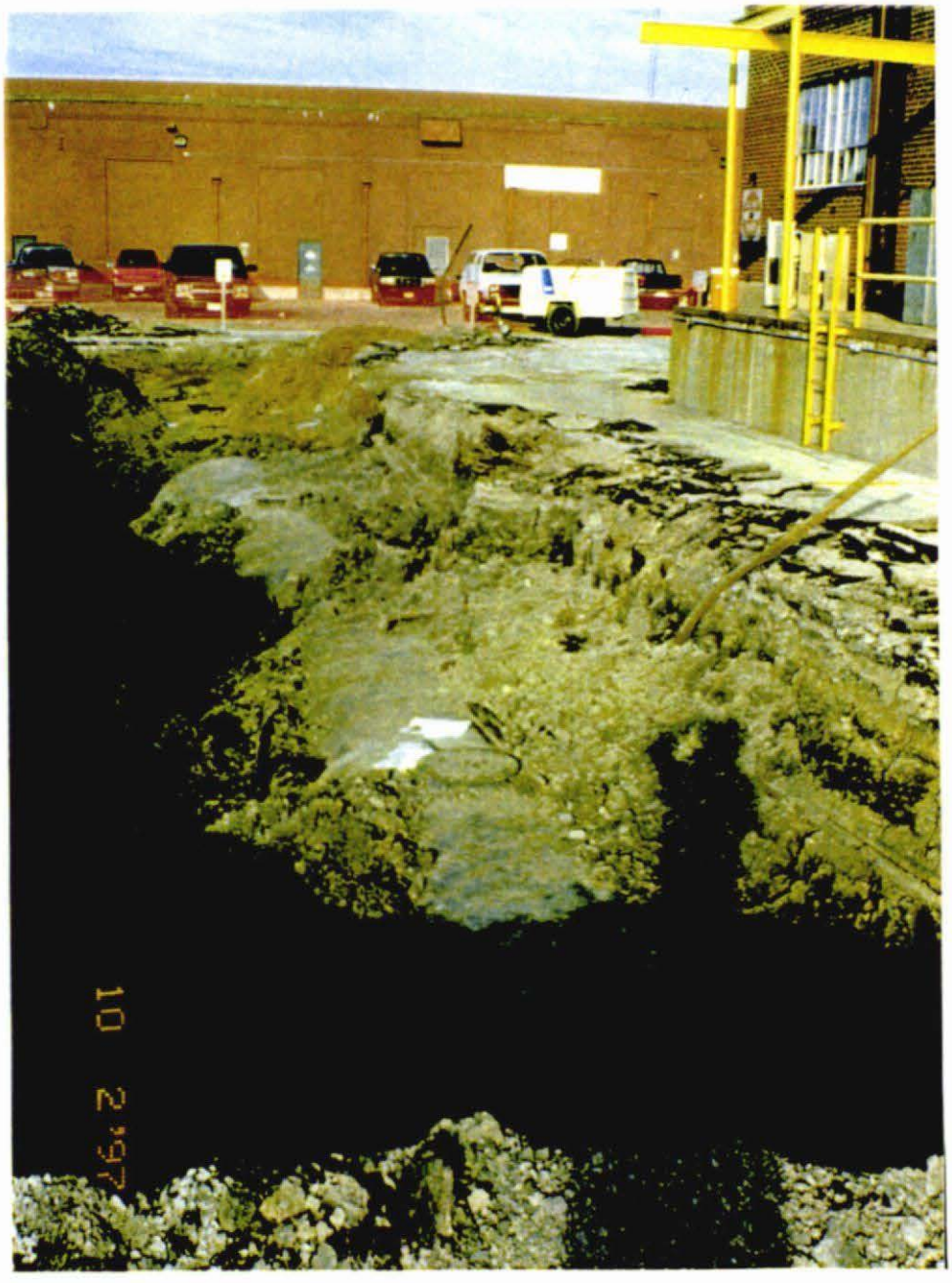


Photograph No. 5 Location: South Side of Building 103
Orientation: North Date: 10/02/97
Description: Vent lines against building for USTs on the south side of Building 103

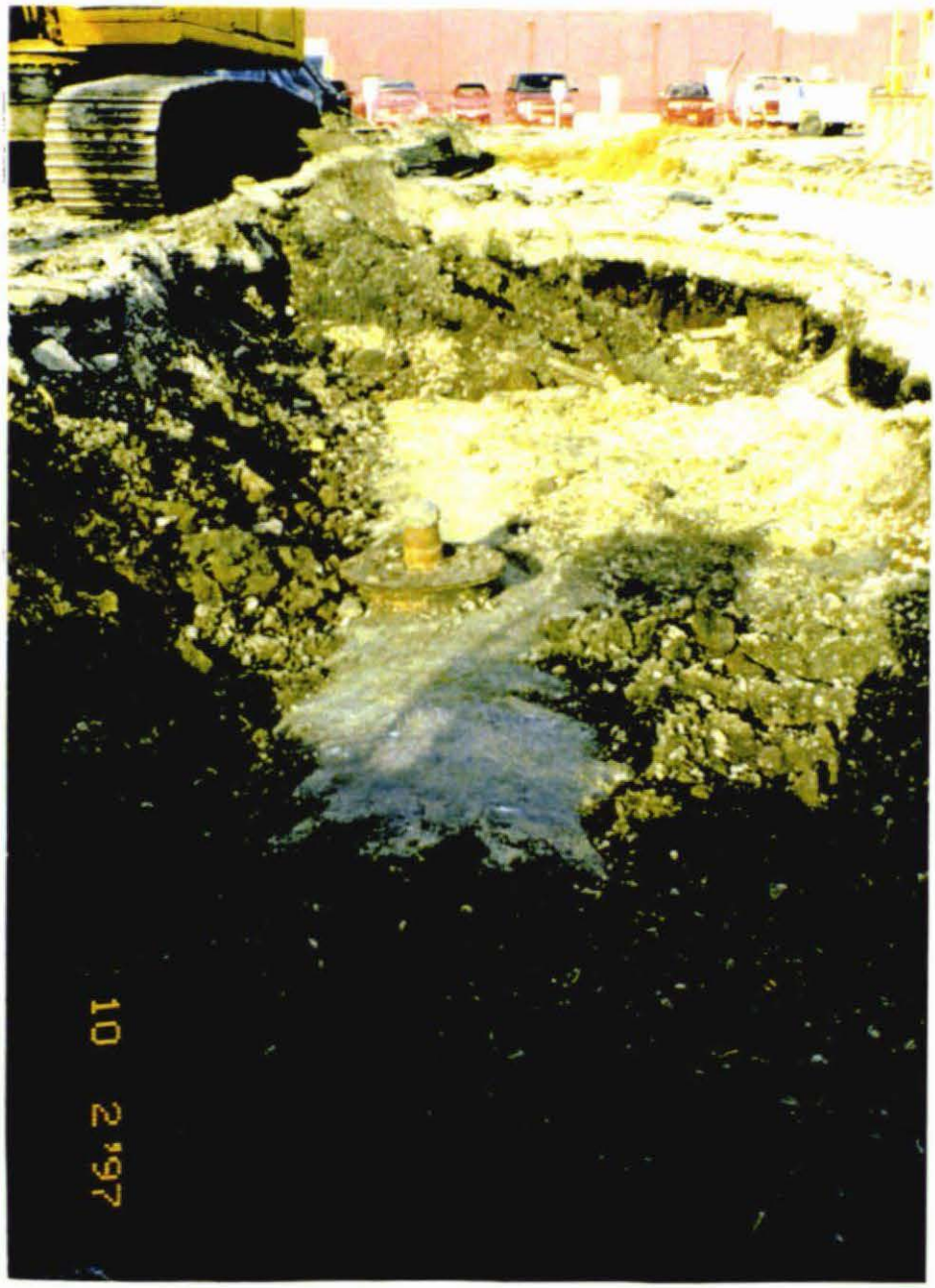


Photograph No. 4
Orientation: North
Description: Pump island area on east side of Building 103

Location: Southeast Side of Building 103
Date: 10/02/97



Photograph No. 3 Location: South Side of Building 103
Orientation: West Date: 10/02/97
Description: Two 10,000-gallon leaded gasoline UST and one 12,500-gallon diesel UST, view facing west



Photograph No. 2
Orientation: East
Description: 10,000-gallon leaded gasoline UST, farthest east

Location: Southeast Side of Building 103
Date: 10/02/97

Photograph No. 1 Location: Southwest of Building 103
Orientation: East Date: 10/02/97
Description: 10,000-gallon gasoline USTs on south side of Building 103

APPENDIX I

BILLS OF LADING AND LIQUID WASTE MANIFESTS

(16 Sheets)

TOPS Snap off CARBONLESS FORM 38411

BILL OF LADING

TRIPLICATE

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Original—Not Negotiable

Shipper No. _____

Carrier No. _____

Date 10-3-97

Jack Gray Trucking
(Name of Carrier)

TO: Consignee Bldg 3304 Great Lakes NTC	FROM: Shipper Bldg 103 Great Lakes NTC
Street Great Lakes Dr.	Street
Destination Zip Code 60099	Origin Zip Code 60099
Route:	Vehicle No.

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
	Soil (sand, clay, gravel)	150 CY		

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of the shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

SHIPPER Navy PWC Great Lakes	CARRIER Jack Gray
PER	PER DATE

TOPS FORM No. 38411

Made in U.S.A.

1

TOPS Snap-off® CARBONLESS FORM 38411

BILL OF LADING

TRIPLICATE

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Original—Not Negotiable

Shipper No. _____

Carrier No. _____

Date 10-3-97

Jack Gray Trucking
(Name of Carrier)

TO: Consignee Bldg 3304 Great Lakes NTC	FROM: Shipper Bldg 103 Great Lakes NTC
Street	Street
Destination Zip Code	Origin Zip Code
Route:	Vehicle No.

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
	Soil (sand, clay, gravel)	18 CY		

HIT TRUCK

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

_____
(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of the shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Navy PWC Great Lakes	CARRIER Jack Gray
PER	PER DATE

TOPS FORM No. 38411

Made in U.S.A.

1

TOPS Snap off® CARBONLESS FORM 38411

BILL OF LADING

TRIPLICATE

ALTERNATE STRAIGHT BILL OF LADING SHORT FORM

Original—Not Negotiable

Shipper No.

Carrier No.

Date 10-10/13-97

Kirchoffer Trucking
(Name of Carrier)

TO:	FROM:
Consignee Dept of Navy FFTU	Shipper Dept of Navy
Street Great Lakes Drive	Street Building 103
Destination Great Lakes IL Zip Code	Origin Great Lakes IL Zip Code
Route:	Vehicle No.

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1	soil, (sand, gravel, clay	~~150 CY~~ 360 CY		
10-10	10 Loads			
10-13	14 loads			

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of the shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Dept of Navy	CARRIER Kirchoffer
PER	PER DATE

TOPS FORM No. 38411

Made in U.S.A.

1

TOPS Snap-off® CARBONLESS FORM 38411

BILL OF LADING

TRIPLICATE

ALTERNATE STRAIGHT BILL OF LADING--SHORT FORM

Original—Not Negotiable

Shipper No. _____

Carrier No. _____

Date 10-10/13-97

Kirchoffers Trucking
(Name of Carrier)

TO:	FROM:
Consignee DEPT OF NAVY EFTU	Shipper DEPT OF NAVY
Street Great Lakes Drive	Street Building #103
Destination Great Lakes IL Zip Code	Origin Great Lakes IL Zip Code
Route:	Vehicle No. 323

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1	soil, (sand gravel clay)	15 yd		
		390 cy.		
10/10	13 loads			
10/13	13 loads			

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note--Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of the shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER DEPT OF NAVY	CARRIER Kirchoffers
PER [signature]	PER [signature] DATE 10/10/97

TOPS FORM No. 38411

Made in U.S.A.

1

ALTERNATE STRAIGHT BILL OF LADING — SHORT FORM

Original—Not Negotiable

Shipper No. _____

Carrier No. _____

Kirchhoffer
(Name of Carrier)

Date 10-14-97

TO:		FROM:	
Consignee	Great Lakes NTC	Shipper	Great Lakes NTC
Street	Bldg. 3304	Street	Bldg 103
Destination	Great Lakes IL Zip Code 60088	Origin	Zip Code 60088
Route:	Sheridan to Buckley	Vehicle No.	

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
	Soil (Sand, clay, gravel)	160		

REMIT C.O.D. TO: ADDRESS	COD Amt. $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of the shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	CARRIER	
PER	PER	DATE

Tops FORM No. 38411

Made in U.S.A.

1

PLEASE TYPE — Form designed for use on elite 12 pitch typewriter — EPA Form 3700-22 Rev. 9-89 — Form approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No.: IL 7170024577
Manifest Document No.: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
Naval Training Center, Environmental Dept.
2703 Sheridan Rd. Bldg 14, Ste. 120
Great Lakes IL 60088
Location if Different: Bldg 103

A. Illinois Manifest Document Number: IL 7113802 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 0 9 7 1 2 5 5 0 0

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

5. Transporter 1 Company Name: Heritage Transport Inc.
6. US EPA ID Number: IND058434114
C. Illinois Transporter's ID: 1 5 5
D. (317) 381-6343 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
CID RDF
130th & Bishop Ford Expressway
Calumet City IL
10. US EPA ID Number: N/A
G. Illinois Facility's ID: 0 3 1 6 0 0 0 5 6
H. Facility's Phone: 773 646-3094

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non-Hazardous Special Waste Liquid (water contaminated with gasoline and diesel fuel)	001	TT	05000	G	EPA HW Number: XX Class A; Authorization Number: [illegible]
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Profile No. 200074

K. Handling Codes for Wastes Listed Above in Item #14

15. Special Handling Instructions and Additional Information

16. 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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MARK S. HOYER — Signature: Mark S. Hoyer — Date (Month Day Year): 1 0 0 3 9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LARRY SOFF — Signature: [illegible] — Date (Month Day Year): 1 0 0 3 9 7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: RUSSELL OLSZEWSKI — Signature: Russell Olszewski — Date (Month Day Year): 1 0 0 7 9 7

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Jim Gill — Signature: [illegible] — Date (Month Day Year): 1 0 0 7 9 7

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

State Form UPC 52 3.5" 0532-0610 AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No. IL 7170024577 — Manifest Document No. 70114

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different: Bldg 103
Navel Training Center, Environmental Dept
2003 North Sheridan Rd Bldg-1A Ste 120
Great Lakes IL 60088

A. Illinois Manifest Document Number: IL 7113808 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0971125100 4

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: 847-688-6934

5. Transporter 1 Company Name: Heritage Transport Inc — 6. US EPA ID Number: IND005840114

C. Illinois Transporter's ID: 115 54

D. 630 739-1151 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
CID RDF
138th + Bishop Ford expwy
Calumet City IL — 10. US EPA ID Number: N/A

G. Illinois Facility's ID: 0311600005 6

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit WVol	I. Waste No.
a. Non Hazardous Special Waste Liquid (Water Contaminated with Gasoline & Diesel Fuel)	001	TT	015000	G	EPA HW Number XX Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Description for Materials Listed Above
Profile # 200074

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. 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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mark S. Hoyer — Signature: Mark S. Hoyer — Date (Month Day Year): 100497

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Soff — Signature: [signature] — Date (Month Day Year): 100497

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Steven E Reed — Signature: [signature] — Date (Month Day Year): 100497

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

State Form LPC 62 8/87 2602-0610 AND SPECIAL WASTE

PLEASE TYPE Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No. IL7170024577 Manifest Document No. 70112

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Navel Training Center, Environmental Dept, 2203 North Sheridan Rd Bldg 1A Ste 120, Great Lakes IL 60088 Location If Different: Bldg. 603

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: 847-688-6634

A. Illinois Manifest Document Number: IL 7113807 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0971126500

5. Transporter 1 Company Name: S.S.I. Transport

6. US EPA ID Number: ILD981957236

C. Illinois Transporter's ID: 10141

D. 847 537 9221 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: CID RDF, 138th + Bishop Ford expwy, Calumet City IL

10. US EPA ID Number

G. Illinois Facility's ID: 0311600005

H. Facility's Phone: 773 646-3099

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NOS Hazardous Special Waste Liquid (water contaminated with Gasoline + Diesel Fuel)	001	T	03500	G	EPA HW Number XXC655 Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Description for Materials Listed Above: Profile # 200074

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. 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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MARK S. HOYER Signature: Mark S. Hoyer Date (Month Day Year): 100497

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eric Camarano Signature: Eric Camarano Date (Month Day Year): 10049

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Steven E Reed Signature: Steven E Reed Date (Month Day Year): 10049

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2 Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

State Form LPC 62 8/87 1332-0610 AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-3

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No. IL7170024577 — Manifest Document No. 70111

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Daver training Center environmental Dept. 2703 north Sheridan Rd Bldg 1A Ste 120 ~~Chicago IL~~ Great Lakes IL 60088 — Location If Different: Bldg 103 6954

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: 847 688 [illegible]

A. Illinois Manifest Document Number: IL 7113806 FEE PAID F APPLICABLE

B. Illinois Generator's ID: 09 21 21 51 STO 01

5. Transporter 1 Company Name: J.S.T. Transport — 6. US EPA ID Number: ILD985723236

C. Illinois Transporter's ID: [illegible]

D. Transporter's Phone: 847 532 9221

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: CID RDF 135th & Bishop Ford expressway Calumet City IL — 10. US EPA ID Number: N/A

G. Illinois Facility's ID: 0311600005

H. Facility's Phone: 773 646-3099

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non Hazardous Special Waste liquid (water) contaminated with Diesel Fuel + Gasoline	001	TT	03500	G	EPA HW Number XX 9555 Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Description for Materials Listed Above: Profile # 200074

K. Handling Codes for Wastes Listed Above: In Item #14

15. Special Handling Instructions and Additional Information

16. **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.

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Printed/Typed Name: Mark S. Hoyer — Signature: Mark S. Hoyer — Date (Month Day Year): 100497

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: WALTER LAMENCE — Signature: [signature] — Date (Month Day Year): 10849

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Steven E Reed — Signature: [signature] — Date (Month Day Year): 10049

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1 TSD MAIL TO GENERATOR

State Form LPC 62 3/87 0830-0610 AND SPECIAL WASTE

PLEASE TYPE Form designed for use on elite (12 pitch) typewriter. EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-

UNIFORM ~~HAZARDOUS~~ BA WASTE MANIFEST

1. Generator's US EPA ID No. EL7170024577 | Manifest Document No. 70109 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different
Navel Training Center, environmental Dept Bldg 103
2703 North Sheridan Rd bldg 1A Ste 120
Great Lakes IL 60088

A. Illinois Manifest Document Number: IL 7113804 FEE PAID IF APPLICABLE

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

B. Illinois Generator's ID: 0917121655004

5. Transporter 1 Company Name: S.E.T. Transport | 6. US EPA ID Number: ILD 989 57236

C. Illinois Transporter's ID: 00145

D. (847) 537-922 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address / 10. US EPA ID Number
CID RDF
138th & Bishop Ford expressway
Calumet City IL
N/A

G. Illinois Facility's ID: 0313160100516

H. Facility's Phone: (773) 646-3099

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non-Hazardous Special waste Liquid (water contaminated with gasoline + Diesel Fuel)	001	TT	05197	G	EPA HW Number XXC056K; Authorization Number
b.					EPA HW Number XX; Authorization Number
c.					EPA HW Number XX; Authorization Number
d.					EPA HW Number XX; Authorization Number

J. Additional Description for Materials Listed Above
Profile # 200074

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **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.

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Printed/Typed Name: MARK S. HOYER | Signature: Mark S. Hoyer | Date (Month Day Year): 100497

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Eric Canafax | Signature: Eric Canafax | Date (Month Day Year): 100497

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Steven E Reed | Signature: Steven E. Reed | Date (Month Day Year): 100497

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

STATE OF ILLINOIS

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL2170024592 — Manifest Document No. 70413

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Navel Training Center, Environmental Dept. 2203 North Sheridan Rd Bldg 1A SR 620 Great Lakes IL — Location If Different: Bldg 103

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

A. Illinois Manifest Document Number: IL 7113809 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0191211255010

5. Transporter 1 Company Name: Heritage Transport Inc. — 6. US EPA ID Number: IND055484414

C. Illinois Transporter's ID: 1151514

D. (630) 739-1151 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: CID RDF, 138th + Bishop Ford expwy, Calumet City IL — 10. US EPA ID Number: N/A

G. Illinois Facility's ID: 0311160000015

H. Facility's Phone: (773-646-3099

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. non Hazardous special waste liquid (water contaminated with Diesel fuel + gasoline)	001	TT	050006		EPA HW Number XX; Authorization Number
b.					EPA HW Number XX; Authorization Number
c.					EPA HW Number XX; Authorization Number
d.					EPA HW Number XX; Authorization Number

J. Additional Description for Materials Listed Above: Profile # 200024

K. Handling Codes for Wastes Listed Above in Item #14

15. Special Handling Instructions and Additional Information

16. 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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MARK S. HOYER — Signature: Mark S. Hoyer — Date (Month Day Year): 100497

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY SEFF — Signature: [signature] — Date (Month Day Year): 100497

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Jim Callan — Signature: [signature] — Date (Month Day Year): 100697

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1005 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-9

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No. ILD 700214577 Manifest Document No. 70115
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address Location If Different
Naval Training Center, Environmental Dept Bldg 103
2703 Sheridan Rd Bldg 1A Ste 120
Great Lakes IL 60088

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 847-688-6934

A. Illinois Manifest Document Number IL 7113810 FEE PAID IF APPLICABLE
B. Illinois Generator's ID 0971125150004

5. Transporter 1 Company Name: Heritage Transport Inc
6. US EPA ID Number: IND059484114
C. Illinois Transporter's ID 115514
D. Transporter's Phone (317) 381-6845

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
CID RDF
138th & Bishop Ford expressway
Calumet City IL
10. US EPA ID Number: N/A
G. Illinois Facility's ID 1031160000055
H. Facility's Phone (773) 646-3099

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non Hazardous special waste liquid (water contaminated with gasoline + Diesel Fuel)	001	TT	05000	G	EPA HW Number XXC095A; Authorization Number
b.					EPA HW Number XX; Authorization Number
c.					EPA HW Number XX; Authorization Number
d.					EPA HW Number XX; Authorization Number

J. Additional Description for Materials Listed Above
Profile no 200074

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. 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.

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Printed/Typed Name: Mark S Hoyer Signature: Mark S Hoyer Date (Month Day Year): 100697

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Soff Signature: [signature] Date (Month Day Year): 100697

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Jim Call Signature: [signature] Date (Month Day Year): 100697

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

GENERATOR — TRANSPORTER — FACILITY

PLEASE TYPE — Form designed for use on elite (12 pitch) typewriter — EPA Form 8700-22 (Rev. 9-89) — Form Approved OMB No. [illegible]

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No.: IL7170024577
Manifest Document No.: 70110
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Abbott Training Center, Environmental Dept, 2203 N Sheridan Rd, Bldg 1A Ste 128, Great Lakes IL 60088
Location If Different: Bldg 103, 60084
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: 847-688-[illegible]

A. Illinois Manifest Document Number: IL 7113805 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 0917125500H

5. Transporter 1 Company Name: Heritage Transport
6. US EPA ID Number: TXD052485114
C. Illinois Transporter's ID: 1155
D. Transporter's Phone: 630-759-1151

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone:

9. Designated Facility Name and Site Address: CID RDF, 135th & Bishop expressway, Calumet City IL
10. US EPA ID Number:
G. Illinois Facility's ID: 0131610000056
H. Facility's Phone: (773) [illegible] 646-3099

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit WtVol	I. Waste No.
a. Non Hazardous special waste liquid (water contaminated with Gasoline + Diesel Fuel	001	TT	05000	G	EPA HW Number: XX Class 6; Authorization Number:
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Profile # 200074

K. Handling Codes for Wastes Listed Above in Item #14:

15. Special Handling Instructions and Additional Information:

16. 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.

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Printed/Typed Name: MARK S. HOYER — Signature: Mark S. Hoyer — Date (Month Day Year): 10 04 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LONNY SOFF — Signature: [signature] — Date (Month Day Year): 10 04 9

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Steven E Reed — Signature: [signature] — Date (Month Day Year): 10 04

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2 Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

PLEASE TYPE — Form designed for use on elite 12 pitch typewriter — EPA Form 8700-22 (Rev. 5-89) — Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL 7170024527
Manifest Document No.: 70116
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different
Naval Training Center, Environmental Dept. Bldg. 103
2703 Sheridan Rd. Bldg 1A, Ste. 12
Great Lakes, IL 60088

A. Illinois Manifest Document Number: IL 7113803 — FEE PAID IF APPLICABLE

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

B. Illinois Generator's ID: 0 9 7 1 2 5 5 0 0 4

5. Transporter 1 Company Name: Heritage Transport Inc.
6. US EPA ID Number: IND058484114

C. Illinois Transporter's ID: 1 5 5 4
D. (317) 381-6843 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Heritage Environmental Services, Inc
15330 Canal Bank Rd.
Lemont IL 60439
10. US EPA ID Number: ILD085349264

G. Illinois Facility's ID: 0 3 1 1 6 2 0 0 0 7
H. Facility's Phone: (630) 739-4151

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Waste Gasoline, 3, UN1203, PG II, (D001, D003, D018) ERG #128	0.0.1	T.T	03000	G	EPA HW Number: X X D 0 0 1; Authorization Number: 0 0 0 1 0 8
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

J. Additional Description for Materials Listed Above
11A) 42390-3 D003, D018

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information
/

16. **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.

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Printed/Typed Name: Mark S. Hayes — Signature: Mark S. Hayes — Date (Month Day Year): 100897

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: George Jaworek — Signature: George Jaworek — Date (Month Day Year): 100897

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Gary S. Fithian — Signature: Gary S. Fithian — Date (Month Day Year): 100897

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

PLEASE TYPE — Form designed for use on elite 12 pitch typewriter — EPA Form 8700-22 (Rev. 6-89) — Form Approved. OMB No. 2050-0039. Expires 4-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL 7170024577
Manifest Document No.: 70107
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Naval Training Center, Environmental Department, Bldg. 103
2703 Sheridan Rd Bldg 1A, Ste. 120
Great Lakes IL 60088
Location If Different
4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS": 1-847-688-4820

A. Illinois Manifest Document Number: IL 7113801 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 0 9 7 1 2 5 5 0 0 4

5. Transporter 1 Company Name: Heritage Transport Inc.
6. US EPA ID Number: IND058484114
C. Illinois Transporter's ID: 1 5 5 4
D. (317) 381-6848 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Heritage Environmental Services, Inc.
15330 Canal Bank Road
Lemont IL 60439
10. US EPA ID Number: ILD085349264
G. Illinois Facility's ID: 0 3 1 1 6 2 0 0 0 7
H. Facility's Phone: (630) 739-1151

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Waste Gasoline, 3, UN1203, PG II (D001, D008, D018) ERG# 128	0.0.1	T.T	03000	G	EPA HW Number: X X D 0 0 1; Authorization Number: 0 0 0 1 0 1 8
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

J. Additional Description for Materials Listed Above: (1A) 42390-3 D008, D018

K. Handling Codes for Wastes Listed Above in Item #14

15. Special Handling Instructions and Additional Information

16. **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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MARK S. HOYER — Signature: Mark S. Hoyer — Date (Month Day Year): 100397

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LARRY SOFF — Signature: [signature] — Date (Month Day Year): 100397

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Gm S. Fithian — Signature: [signature] — Date (Month Day Year): 100397

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

JobCrosc - 12160482

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL 7170024577
Manifest Document No.: 70131

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Naval Training Center, Environmental Department, 2703 Sheridan Rd. Bldg 1A, Ste. 120, Great Lakes IL 60088-5600
Location If Different: Bldg. 103

A. Illinois Manifest Document Number: IL 7113822 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0971255004

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: (847)-688-4820

5. Transporter 1 Company Name: Heritage Transport Inc. / RE
6. US EPA ID Number: IND053484114

C. Illinois Transporter's ID: 1554

D. ( ) Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Heritage Environmental Services, Inc., 15330 Canal Bank Rd., Lemont IL 60439
10. US EPA ID Number: ILD085349264

G. Illinois Facility's ID: 0311620007

H. Facility's Phone: (630) 739-1151

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Waste Gasoline, 3, UN1203, PG II, (D001, D008, D018) ERG# 128	003	DM	00165	G	EPA HW Number: XXD001; Authorization Number: 000108
b. Non-Hazardous Special Waste Solid (PPE/Debris)	002	DM	00310	P	EPA HW Number: XXClass A; Authorization Number: 000331
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
11a) 42390-3 D008, D018, Bulk, 3X 55DM
11b) 42390-2, Bulk, 2X55DM

K. Handling Codes for Wastes Listed Above In Item #14
Job# 9600 Po#

15. Special Handling Instructions and Additional Information

16. 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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mark S. Hayes
Signature: Mark S. Hayes
Date (Month Day Year): 102997

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David E. Fessler Sr.
Signature: David E. Fessler Sr.
Date (Month Day Year): 102997

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Mary Richardson
Signature: Mary Richardson
Date (Month Day Year): 102997

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.